NASA SP-7039 (43)
July 1993

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

(NASA-SP-7039(43)-Sect-2) NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT 43) (NASA) 606 p

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NASA STI PROGRAM
SCIENTIFIC & TECHNICAL INFORMATION

ACCESSION NUMBER RANGES

Bibliography Number	*STAR Accession Numbers*
NASA SP-7039(04) SEC 1	N69-20701 - N73-33931
NASA SP-7039(12) SEC 1	N74-10001 - N77-34042
NASA SP-7039(13) SEC 1	N78-10001 - N78-22018
NASA SP-7039(14) SEC 1	N78-22019 - N78-34034
NASA SP-7039(15) SEC 1	N79-10001 - N79-21993
NASA SP-7039(16) SEC 1	N79-21994 - N79-34158
NASA SP-7039(17) SEC 1	N80-10001 - N80-22254
NASA SP-7039(18) SEC 1	N80-22255 - N80-34339
NASA SP-7039(19) SEC 1	N81-10001 - N81-21997
NASA SP-7039(20) SEC 1	N81-21998 - N81-34139
NASA SP-7039(21) SEC 1	N82-10001 - N82-22140
NASA SP-7039(22) SEC 1	N82-22141 - N82-34341
NASA SP-7039(23) SEC 1	N83-10001 - N83-23266
NASA SP-7039(24) SEC 1	N83-23267 - N83-37053
NASA SP-7039(25) SEC 1	N84-10001 - N84-22526
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NASA SP-7039(30) SEC 1	N86-22537 - N86-33262
NASA SP-7039(31) SEC 1	N87-10001 - N87-20170
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NASA SP-7039(35) SEC 1	N89-10001 - N89-20085
NASA SP-7039(36) SEC 1	N89-20086 - N89-30155
NASA SP-7039(37) SEC 1	N90-10001 - N90-20043
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SECTION 2 INDEXES

National Aeronautics and Space Administration
Scientific and Technical Information Program
Washington, DC 1993

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INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 128 citations published in this issue of the Abstract Section cover the period January 1993 through June 1993. The Index Section references over 5400 citations covering the period May 1969 through June 1993.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

NASA Accession Number
NASA Case Number
Inventor's Name
Title of Invention
U.S. Patent Application Serial Number
U.S. Patent Number (for issued patents only)
U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED
ON MICROFICHE

ACCESSION NUMBER → N93-17048*# National Aeronautics and Space Administration. ← CORPORATE SOURCE
Langley Research Center, Hampton, VA.

TITLE → **RAPID DETECTION AND QUANTIFICATION OF FEATURES SUCH AS DAMAGE OR FLAWS IN COMPOSITE AND METALLIC STRUCTURES Patent Application**

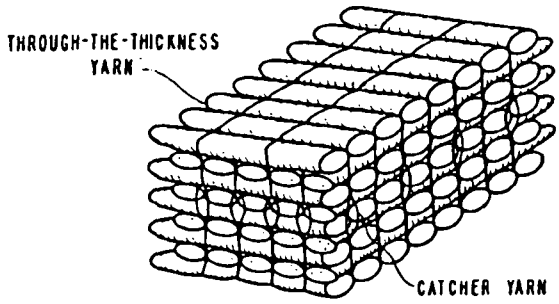
INVENTORS → GARY L. FARLEY, inventor (to NASA), BARRY T. SMITH, inventor (to NASA), JOSEPH N. ZALAMEDA, inventor (to NASA), and WILLIAM P. WINFREE, inventor (to NASA) 29 Oct. 1992 27 p

NASA CASE NUMBER → (NASA-CASE-LAR-14850-1-CU; NAS 1.71:LAR-14850-1-CU; US-PATENT-APPL-SN-969869) Avail: CASI HC A03/MF A01 ← AVAILABILITY SOURCE

US PATENT APPLICATIONS SERIAL NUMBERS →

An apparatus, system, and method for non-destructible evaluation (NDE) of a material use thermography to rapidly detect and/or generally locate a feature such as, for example, damage or a defect in the material. The apparatus, system, and method also use ultrasound to specifically locate the feature in the material for quantification and/or evaluation either by an operator or by an external device suited for such purpose. Accordingly, the apparatus, system and method are particularly useful for NDE in applications such as the analysis of the structure of an aircraft, for example, in which the scale of the material to be analyzed is large, thus requiring the rapid NDE afforded by thermography, and in which quantification and/or evaluation of a feature must be performed with precision, thus requiring the relatively high-resolution NDE afforded by ultrasound. ← ABSTRACT

NASA



← KEY ILLUSTRATION

Subject Categories

(1969 - 1973)

01 Aerodynamics
Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft
Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; *flight tests; operating problems; e.g., sonic boom; safety* and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems
Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences
Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology
Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry
Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications
Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers
Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment
Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuity; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics
Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support
Includes airports; lunar and planetary bases including *associated vehicles; ground support systems; related* logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics
Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics
Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography
Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes
Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers
Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic
Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as *structural materials. For basic research see: 06 Chemistry.* For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic
Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics
Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology
Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation
Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering
Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General
Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear
Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma
Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State
Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants
Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems
Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation
Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences
Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles
Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics
Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion
Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General
Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS For related information see also *Astronautics.*

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS
Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery. For related information see also *34 Fluid Mechanics and Heat Transfer.*

03 AIR TRANSPORTATION AND SAFETY
Includes passenger and cargo air transport operations; and aircraft accidents. For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation.*

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION
Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control. For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar.*

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE
Includes aircraft simulation technology. For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics.* For land transportation vehicles see *85 Urban Technology and Transportation.*

06 AIRCRAFT INSTRUMENTATION
Includes cockpit and cabin display devices; and flight instruments. For related information see also *19 Space craft Instrumentation* and *35 Instrumentation and Photography.*

07 AIRCRAFT PROPULSION AND POWER
Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft. For related information see also *20 Spacecraft Propulsion and Power, 28 Propellants and Fuels,* and *44 Energy Production and Conversion.*

08 AIRCRAFT STABILITY AND CONTROL
Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also *05 Aircraft Design, Testing and Performance.*

09 RESEARCH AND SUPPORT FACILITIES (AIR)
Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands. For related information see also *14 Ground Support Systems and Facilities (Space).*

ASTRONAUTICS For related information see also *Aeronautics.*

12 ASTRONAUTICS (GENERAL)
For extraterrestrial exploration see *91 Lunar and Planetary Exploration.*

13 ASTRODYNAMICS
Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)
Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also *09 Research and Support Facilities (Air).*

15 LAUNCH VEHICLES AND SPACE VEHICLES
Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For related information see also *20 Spacecraft Propulsion and Power.*

16 SPACE TRANSPORTATION
Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques. For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance.* For space suits see *54 Man/System Technology and Life Support.*

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING
Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout. For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar.*

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE
Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see *54 Man/System Technology and Life Support.* For related information see also *05 Aircraft Design, Testing and Performance, 39 Structural Mechanics,* and *16 Space Transportation.*

19 SPACECRAFT INSTRUMENTATION
For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography.*

20 SPACECRAFT PROPULSION AND POWER
Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources. For related information see also *07 Aircraft Propulsion and Power, 28 Propellants and Fuels, 44 Energy Production and Conversion,* and *15 Launch Vehicles and Space Vehicles.*

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS
Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see *27 Nonmetallic Materials.*

25 INORGANIC AND PHYSICAL CHEMISTRY
Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry. For related information see also *77 Thermodynamics and Statistical Physics.*

26 METALLIC MATERIALS
Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS
Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials. For composite materials see *24 Composite Materials.*

28 PROPELLANTS AND FUELS
Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels. For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power,* and *44 Energy Production and Conversion.*

29 MATERIALS PROCESSING
Includes space-based development of products and processes for commercial application. For biological materials see *55 Space Biology.*

ENGINEERING For related information see also *Physics.*

31 ENGINEERING (GENERAL)
Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR
Includes radar; land and global communications; communications theory; and optical communications. For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking.* For search and rescue see *03 Air Transportation and Safety,* and *16 Space Transportation.*

33 ELECTRONICS AND ELECTRICAL ENGINEERING
Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry. For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics.*

34 FLUID MECHANICS AND HEAT TRANSFER
Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling. For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics.*

35 INSTRUMENTATION AND PHOTOGRAPHY
Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography. For aerial photography see *43 Earth Resources and Remote Sensing.* For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation.*

36 LASERS AND MASERS
Includes parametric amplifiers. For related information see also *76 Solid-State Physics.*

37 MECHANICAL ENGINEERING
Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY
Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS
Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance.*

GEOSCIENCES For related information see also *Space Sciences.*

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING
Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography. For instrumentation see *35 Instrumentation and Photography.*

44 ENERGY PRODUCTION AND CONVERSION
Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower. For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power,* and *28 Propellants and Fuels.*

45 ENVIRONMENT POLLUTION
Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS
Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see *93 Space Radiation.*

47 METEOROLOGY AND CLIMATOLOGY
Includes weather forecasting and modification.

48 OCEANOGRAPHY
Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also *43 Earth Resources and Remote Sensing.*

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE
Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES
Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT
Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also *16 Space Transportation.*

55 SPACE BIOLOGY
Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE
Includes hardware for computer graphics, firmware, and data processing. For components see *33 Electronics and Electrical Engineering.*

61 COMPUTER PROGRAMMING AND SOFTWARE
Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS
Includes computer networks and special application computer systems.

63 CYBERNETICS
Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also *54 Man/System Technology and Life Support.*

64 NUMERICAL ANALYSIS
Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY
Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS
Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS
Includes topology and number theory.

PHYSICS For related information see also *Engineering.*

70 PHYSICS (GENERAL)
For precision time and time interval (PTTI) see *35 Instrumentation and Photography;* for geophysics, astrophysics or solar physics see *46 Geophysics, 90 Astrophysics,* or *92 Solar Physics.*

71 ACOUSTICS
Includes sound generation, transmission, and attenuation. For noise pollution see *45 Environment Pollution.*

72 ATOMIC AND MOLECULAR PHYSICS
Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS
Includes elementary and nuclear particles; and reactor theory. For space radiation see *93 Space Radiation.*

74 OPTICS
Includes light phenomena and optical devices. For lasers see *36 Lasers and Masers.*

75 PLASMA PHYSICS
Includes magnetohydrodynamics and plasma fusion. For ionospheric plasmas see *46 Geophysics.* For space plasmas see *90 Astrophysics.*

76 SOLID-STATE PHYSICS
Includes superconductivity. For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers.*

77 THERMODYNAMICS AND STATISTICAL PHYSICS
Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer.*

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)
Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT
Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE
Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see *61 Computer Programming and Software.*

83 ECONOMICS AND COST ANALYSIS
Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY
Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION
Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation. For related information see *03 Air Transportation and Safety, 16 Space Transportation,* and *44 Energy Production and Conversion.*

SPACE SCIENCES For related information see also *Geosciences.*

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY
Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS
Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust. For related information see also *75 Plasma Physics.*

91 LUNAR AND PLANETARY EXPLORATION
Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance.*

92 SOLAR PHYSICS
Includes solar activity, solar flares, solar radiation and sunspots. For related information see *93 Space Radiation.*

93 SPACE RADIATION
Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation see *52 Aerospace Medicine.* For theory see *73 Nuclear and High-Energy Physics.*

GENERAL

Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

Section 2 • Indexes

SUBJECT INDEX **A-1**

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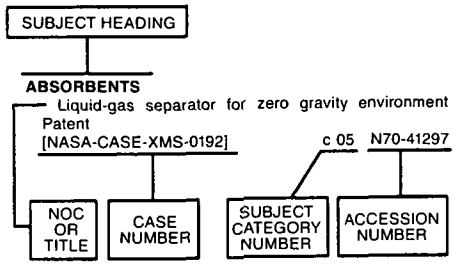
Typical Subject Index Listing



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[NASA-CASE-MSC-21748-1] c 37 N92-21727

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[NASA-CASE-NPO-10567] c 08 N71-24633
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[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
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[NASA-CASE-LAR-13902-1] c 27 N90-23546
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[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056
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[NASA-CASE-XGS-05533] c 04 N69-27487
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[NASA-CASE-XGS-05532] c 06 N71-17705

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
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[NASA-CASE-XMF-01402] c 18 N71-21651
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[NASA-CASE-XMF-02303] c 17 N71-23828
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[NASA-CASE-XFR-07658-1] c 05 N71-26293
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[NASA-CASE-LAR-11549-1] c 37 N77-11397
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[NASA-CASE-NPO-13764-1] c 27 N78-17215
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[NASA-CASE-LEW-12554-1] c 34 N78-18355
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[NASA-CASE-MSC-12619-2] c 27 N79-12221
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[NASA-CASE-LEW-1335901] c 27 N83-31855
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[NASA-CASE-LAR-12894-1] c 27 N85-20125
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[NASA-CASE-LAR-12881-1] c 27 N84-14323
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[NASA-CASE-LAR-14101-1] c 27 N91-15403
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Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
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[NASA-CASE-LAR-14419-1] c 35 N92-10185

AERODYNAMIC BRAKES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
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[NASA-CASE-LAR-10776-1] c 02 N74-10034

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[NASA-CASE-XLA-00221] c 02 N70-33266
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[NASA-CASE-XAC-02058] c 02 N71-16087
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[NASA-CASE-MSC-12433] c 31 N73-14854
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[NASA-CASE-LAR-10585-1] c 02 N76-22154
Curved centerline air intake for a gas turbine engine
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Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
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[NASA-CASE-LAR-13742-1] c 02 N92-21588

AERODYNAMIC CONFIGURATIONS
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[NASA-CASE-XLA-00166] c 02 N70-34178
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[NASA-CASE-XLA-00806] c 02 N70-34858
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[NASA-CASE-XLA-00149] c 31 N70-37938
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[NASA-CASE-XMS-04142] c 31 N70-41631
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[NASA-CASE-XLA-08801-1] c 02 N71-11043
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[NASA-CASE-XLA-10450] c 28 N71-21493
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[NASA-CASE-LAR-10557] c 02 N72-11018
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[NASA-CASE-LAR-10574-1] c 11 N73-13257
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[NASA-CASE-XMF-02263] c 05 N74-10907
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

AERODYNAMIC DRAG
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

AERODYNAMIC HEATING
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[NASA-CASE-XLA-00892] c 33 N71-17897
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[NASA-CASE-XFR-03802] c 33 N71-23085
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[NASA-CASE-MSC-12143-1] c 33 N72-17947
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[NASA-CASE-LAR-13134-2] c 07 N87-16828
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[NASA-CASE-LAR-13511-1] c 05 N88-23765
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[NASA-CASE-MSC-21384-1] c 34 N92-16243

AERODYNAMIC LOADS
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[NASA-CASE-XAC-00139] c 02 N70-34856
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[NASA-CASE-LAR-12175-1] c 05 N82-28279
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[NASA-CASE-LAR-13134-2] c 07 N87-16828

AERODYNAMIC NOISE
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY
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[NASA-CASE-XMF-04163] c 02 N71-23007
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[NASA-CASE-XLA-05541] c 12 N71-26387
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[NASA-CASE-MSC-13281] c 31 N72-18859
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[NASA-CASE-LAR-11252-1] c 05 N75-25914
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[NASA-CASE-ARC-10807-1] c 05 N77-17029
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[NASA-CASE-FRC-11007-2] c 05 N82-26277
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
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[NASA-CASE-LAR-13134-2] c 07 N87-16828
Actuated forebody strakes
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AERODYNAMIC STALLING
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Stall departure resistance enhancer
[NASA-CASE-LAR-14221-1] c 06 N93-19023

AERODYNAMICS
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[NASA-CASE-LAR-13563-1] c 34 N91-23410
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[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

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[NASA-CASE-XAC-00042] c 14 N70-34816
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[NASA-CASE-MFS-20829] c 12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
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[NASA-CASE-NPO-15292-1] c 35 N83-27184
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[NASA-CASE-ARC-11631-1] c 34 N87-21255
AEROSPACE ENGINEERING
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
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[NASA-CASE-XLA-08911] c 15 N71-27214
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[NASA-CASE-MSC-16973-1] c 37 N81-14317
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[NASA-CASE-XLE-01902] c 28 N71-10574
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
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[NASA-CASE-XMF-03988] c 15 N71-21403
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[NASA-CASE-NPO-10141] c 11 N71-24964
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[NASA-CASE-LEW-10155-1] c 09 N71-29035
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
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[NASA-CASE-MFS-22906-1] c 75 N78-27913
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[NASA-CASE-MSC-14331-3] c 27 N78-32262
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[NASA-CASE-MFS-23460-1] c 12 N79-26075
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
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[NASA-CASE-MSC-20797-1] c 37 N87-23981
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[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
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[NASA-CASE-LEW-14297-1] c 35 N89-12048
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[NASA-CASE-MSC-21059-2] c 35 N91-15511
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Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
AEROSPACE PLANES
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
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Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514
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Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
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[NASA-CASE-XLA-00805] c 31 N70-38010
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[NASA-CASE-XLA-01027] c 31 N71-24035
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
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[NASA-CASE-XLA-10450] c 28 N71-21493
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[NASA-CASE-LAR-12751-1] c 15 N84-16231
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[NASA-CASE-XLA-00154] c 28 N70-33374
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Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
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[NASA-CASE-XNP-01311] c 26 N75-29236
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[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
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Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
Slow-release fertilizer
[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054
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[NASA-CASE-XAC-10019] c 15 N71-23809
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[NASA-CASE-XLE-02531] c 05 N71-23080
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[NASA-CASE-XNP-01185] c 26 N73-28710
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[NASA-CASE-MSC-20653-1] c 35 N86-26595
AIR BREATHING ENGINES
Multiple pure tone elimination strut assembly --- air breathing engines
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AIR CONDITIONING
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
AIR CONDITIONING EQUIPMENT
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
AIR COOLING
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
AIR FILTERS
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
AIR FLOW
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390
AIR INTAKES
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
AIR LOCKS
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
AIR NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
AIR POLLUTION
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
AIR PURIFICATION
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
AIR QUALITY
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561
AIR SAMPLING
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

AIR START
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

AIR TRAFFIC CONTROL
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

AIR TRANSPORTATION
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

AIRBORNE EQUIPMENT
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

AIRBORNE/SPACEBORNE COMPUTERS
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

AIRCRAFT
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT ACCIDENTS
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

AIRCRAFT ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

AIRCRAFT COMPARTMENTS
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

AIRCRAFT CONFIGURATIONS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AIRCRAFT CONSTRUCTION MATERIALS
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

AIRCRAFT CONTROL
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

AIRCRAFT DESIGN
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

AIRCRAFT DETECTION
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

AIRCRAFT ENGINES
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

AIRCRAFT EQUIPMENT
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

AIRCRAFT FUEL SYSTEMS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

AIRCRAFT GUIDANCE
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

AIRCRAFT INSTRUMENTS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

AIRCRAFT LANDING
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT LAUNCHING DEVICES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MAINTENANCE
Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N93-14871

AIRCRAFT MANEUVERS
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
AIRCRAFT PERFORMANCE
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
AIRCRAFT PILOTS
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
AIRCRAFT POWER SUPPLIES
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
AIRCRAFT SAFETY
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
AIRCRAFT SPIN
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
AIRCRAFT STABILITY
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
AIRCRAFT STRUCTURES
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
AIRCRAFT TIRES
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
AIRCRAFT WAKES
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
AIRFOIL PROFILES
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
AIRFOILS
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
Boundary layer relaminarization device
[NASA-CASE-LAR-14470-1] c 02 N93-11876
AIRFRAMES
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
AIRSPEED
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
ALBUMINS
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
ALCOHOLS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
ALDEHYDES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
ALGEBRA
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
ALGORITHMS
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Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
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[NASA-CASE-LEW-11358] c 03 N71-26084
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[NASA-CASE-XNP-08876] c 17 N73-28573
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[NASA-CASE-ARC-10992-1] c 26 N78-32229
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[NASA-CASE-LEW-12253-1] c 74 N83-19596
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[NASA-CASE-ARC-11252-1] c 25 N83-36118
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[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241
AMTEC vapor-vapor series connected cells
[NASA-CASE-NPO-18667-1-CU] c 33 N93-19330

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[NASA-CASE-XNP-01464] c 03 N71-10728
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
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[NASA-CASE-GSC-10019-1] c 44 N82-24641
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[NASA-CASE-GSC-10350-1] c 44 N82-24642
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[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
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[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

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[NASA-CASE-MFS-10507] c 06 N73-30101
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
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Substituted 1,1,1-triaryl 2,2,2-trifluoroethanes and processes for their synthesis
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High performance channel injection sealant invention *abstract*
[NASA-CASE-ARC-14408-1] c 27 N82-33523

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Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
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[NASA-CASE-XLA-06199] c 15 N71-24875
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[NASA-CASE-XNP-08907] c 23 N71-29123
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[NASA-CASE-LEW-11388-1] c 15 N73-32358
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[NASA-CASE-XMF-05868] c 26 N75-27125
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[NASA-CASE-LEW-14134-2] c 26 N89-14303
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X-Y alphanumeric character generator for oscilloscopes
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ALTERNATING CURRENT
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
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Echo tracker/range finder for radars and sonars
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ALUMINUM
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[NASA-CASE-MFS-07369] c 15 N71-20443
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of fluxless brazing and diffusion bonding of aluminum containing components
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[NASA-CASE-NPO-14110-1] c 28 N81-15119
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[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
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[NASA-CASE-MFS-28431-1] c 24 N92-17870
Method of forming a multiple layer dielectric and a hot film sensor therewith
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[NASA-CASE-XMF-02786] c 17 N71-20743
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[NASA-CASE-XMF-02303] c 17 N71-23828
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[NASA-CASE-MSC-19693-1] c 26 N78-24333
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-LAR-12807-1] c 24 N84-11214
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[NASA-CASE-NPO-11975-1] c 28 N74-33209
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[NASA-CASE-LEW-11696-1] c 37 N75-13261
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[NASA-CASE-LEW-11696-2] c 26 N75-19408
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[NASA-CASE-LAR-10629-1] c 35 N75-33367
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

ALUMINUM GALLIUM ARSENIDES
Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464

ALUMINUM OXIDES
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461

Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543

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Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

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High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N93-17278

AMBIGUITY
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

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Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200

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Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

AMINO ACIDS
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N93-17278

AMPLIFICATION
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

AMPLITUDE DISTRIBUTION ANALYSIS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

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Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

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Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
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[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
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[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
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[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
The adaptive neuron model: An architecture for the rapid learning of nonlinear topological transformations
[NASA-CASE-NPO-18579-1-CU] c 63 N93-11174
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Analog-to-digital converter analyzing system
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[NASA-CASE-NPO-11016] c 08 N72-31226
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[NASA-CASE-NPO-13385-1] c 33 N76-18345
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[NASA-CASE-GSC-11839-3] c 60 N77-32731
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[NASA-CASE-LAR-12630-1] c 06 N84-27733
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[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
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[NASA-CASE-MFS-29149-1] c 33 N90-19492
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Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
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System for determining the angle of impact of an object on a structure
[NASA-CASE-LAR-14817-1] c 35 N93-17041
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Angular accelerometer Patent
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Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
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[NASA-CASE-LAR-12052-1] c 18 N81-29152
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[NASA-CASE-XMF-00447] c 14 N70-33179
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[NASA-CASE-GSC-12614-1] c 74 N83-32577
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[NASA-CASE-MFS-22356-1] c 23 N75-30256
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[NASA-CASE-ARC-11107-1] c 25 N80-16116
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[NASA-CASE-ARC-11428-1] c 23 N86-19376
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[NASA-CASE-LAR-14162-1] c 27 N90-15259
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[NASA-CASE-LAR-13821-1] c 27 N90-16950
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[NASA-CASE-LEW-14345-2] c 25 N90-23497
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[NASA-CASE-LAR-14198-1] c 27 N90-26956
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[NASA-CASE-LEW-14345-3] c 23 N91-17141
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[NASA-CASE-LEW-14345-4] c 23 N91-25185
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[NASA-CASE-LEW-15043-1] c 27 N91-32230
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[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
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[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
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[NASA-CASE-LEW-14345-6] c 23 N92-17882
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[NASA-CASE-LEW-14345-7] c 23 N93-17412
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[NASA-CASE-MSC-21763-1] c 51 N91-25570
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[NASA-CASE-LEW-12118-1] c 24 N77-27188
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[NASA-CASE-MSC-21631-1] c 75 N91-32947
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704
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[NASA-CASE-XGS-04047-2] c 03 N72-11062
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[NASA-CASE-LAR-12304-1] c 35 N80-20559
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[NASA-CASE-LEW-12445-1] c 37 N81-22360
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[NASA-CASE-LEW-11358] c 03 N71-26084
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[NASA-CASE-NPO-11806-1] c 44 N74-19693
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[NASA-CASE-HQN-10862-1] c 44 N76-29699
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[NASA-CASE-LEW-14127-1] c 33 N86-20680
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[NASA-CASE-LEW-14973-1] c 44 N92-10222
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[NASA-CASE-MSC-12593-1] c 17 N76-21250
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[NASA-CASE-NPO-13886-1] c 32 N78-24391
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[NASA-CASE-NPO-13821-1] c 44 N78-28594
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[NASA-CASE-NPO-13641-1] c 32 N79-24210
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[NASA-CASE-NPO-14536-1] c 32 N81-14185
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[NASA-CASE-MSC-16800-1] c 32 N81-14187
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[NASA-CASE-NPO-14641-1] c 32 N81-29308
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[NASA-CASE-MSC-18606-1] c 32 N82-11336
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Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
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[NASA-CASE-KSC-10392] c 07 N73-26117
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[NASA-CASE-GSC-11760-1] c 33 N75-19516
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[NASA-CASE-LAR-11112-1] c 32 N76-15330
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[NASA-CASE-NPO-13568-1] c 32 N76-21365
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[NASA-CASE-NPO-13553-1] c 33 N76-32457
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[NASA-CASE-LAR-11745-1] c 32 N80-29539
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[NASA-CASE-NPO-13171-1] c 32 N74-11000
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[NASA-CASE-NPO-14022-1] c 32 N78-31321
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[NASA-CASE-NPO-14362-1] c 32 N80-16261
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[NASA-CASE-NPO-14588-1] c 32 N81-25278
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[NASA-CASE-GSC-12420-1] c 33 N82-16340
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[NASA-CASE-GSC-12630-1] c 33 N83-36355
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Triaxial antenna Patent
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[NASA-CASE-LEW-11930-4] c 24 N79-17916
Method of making bearing material
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[NASA-CASE-MFS-28384-1] c 37 N90-27112
Radial spline assembly for antifriction bearings
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ANTIGRAVITY
Anti-gravity device
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ANTIHISTAMINICS
Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ANTIREFLECTION COATINGS
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

ANVILS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094

APERTURES
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084
Electronic still camera
[NASA-CASE-MSC-21797-1] c 35 N93-17076

APOLLO PROJECT
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

APOLLO SPACECRAFT
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

APPLICATION SPECIFIC INTEGRATED CIRCUITS
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

APPLICATIONS OF MATHEMATICS
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

APPLICATIONS PROGRAMS (COMPUTERS)
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

APPROACH
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

AQUATIC PLANTS
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

AQUEOUS SOLUTIONS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

ARAMID FIBER COMPOSITES
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

ARC DISCHARGES
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

ARC HEATING
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

ARC JET ENGINES
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

ARC LAMPS
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

ARC SPRAYING
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

ARC WELDING
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

ARCHITECTURE
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

ARCHITECTURE (COMPUTERS)
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
Optical inner product neural associative memory
[NASA-CASE-NPO-18491-1-CU] c 60 N92-23546
Electronic neural network for solving traveling salesman and similar global optimization problems
[NASA-CASE-NPO-17807-2-CU] c 63 N92-29955
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

ARGON
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

ARITHMETIC
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

ARM (ANATOMY)
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N93-14870
Control system and method for prosthetic devices
[NASA-CASE-MSC-21941-1] c 54 N93-17087

ARMATURES
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

AROMATIC COMPOUNDS
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

ARRAYS
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390

ARTERIES
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

ARTIFICIAL CLOUDS
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL INTELLIGENCE
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N93-18282

ARTIFICIAL SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
ASHES
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
ASPECT RATIO
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
ASPHALT
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
ASSAYING
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
Kinetic tetrazolium microtiter assay
[NASA-CASE-MSC-21979-1] c 51 N93-17049
ASSEMBLIES
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
ASSEMBLING
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202
ASSEMBLY
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354
ASSOCIATIVE PROCESSING (COMPUTERS)
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
ASTRONAUT LOCOMOTION
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
ASTRONAUT MANEUVERING EQUIPMENT
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
ASTRONAUT PERFORMANCE
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
ASTRONAUT TRAINING
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
ASTRONAUTS
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
ASTRONAVIGATION
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
ASTRONOMICAL PHOTOGRAPHY
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
ASYMMETRY
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
ATMOSPHERIC CHEMISTRY
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
ATMOSPHERIC COMPOSITION
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
ATMOSPHERIC DENSITY
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
ATMOSPHERIC ENTRY
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
ATMOSPHERIC ENTRY SIMULATION
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
ATMOSPHERIC MOISTURE
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
ATMOSPHERIC PHYSICS
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
ATMOSPHERIC PRESSURE
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-2] c 35 N93-17626
ATMOSPHERIC RADIATION
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
ATMOSPHERIC REFRACTION
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
ATMOSPHERIC SCATTERING
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
ATMOSPHERIC SOUNDING
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
ATMOSPHERIC TEMPERATURE
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
ATMOSPHERIC TURBULENCE
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
ATOMIC BEAMS
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
Method and apparatus for producing a thermal atomic oxygen beam
[NASA-CASE-LEW-15614-1] c 72 N93-19026
ATOMIC EXCITATIONS
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
ATOMIC STRUCTURE
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
ATOMIZERS
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
ATS
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
ATTACHMENT
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
ATTENUATORS
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N93-19053
ATTITUDE (INCLINATION)
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
ATTITUDE CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
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Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

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Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
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Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
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[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

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Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421

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Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

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Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
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Auditory display for the blind
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Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
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Auditory display for the blind
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AUGER EFFECT
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITE
Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423

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[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
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[NASA-CASE-NPO-10351] c 08 N71-12503
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[NASA-CASE-XMS-04215-1] c 09 N69-39987
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[NASA-CASE-LAR-10774] c 10 N71-13545
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[NASA-CASE-XNP-04758] c 03 N71-24605
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[NASA-CASE-XMF-05195] c 10 N71-24861
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[NASA-CASE-XMS-06497] c 14 N71-26244
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[NASA-CASE-XNP-09451] c 06 N71-26754
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[NASA-CASE-NPO-11134] c 09 N72-21246
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Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
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[NASA-CASE-NPO-13282] c 38 N78-17396
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[NASA-CASE-ARC-10820-1] c 35 N78-19466
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[NASA-CASE-LEW-12541-1] c 44 N78-25529
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[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Automatic thermal switch --- spacecraft applications
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[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
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[NASA-CASE-GSC-12804-1] c 33 N86-20668
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[NASA-CASE-MFS-25807-2] c 37 N86-21850
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
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[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
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Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Combined pressure regulator and shutoff valve
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Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL
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[NASA-CASE-XMS-05307] c 09 N69-24330
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Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
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[NASA-CASE-KSC-11170-1] c 33 N83-36356
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AUTOMATIC TEST EQUIPMENT
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[NASA-CASE-ARC-10329-1] c 05 N73-26072
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[NASA-CASE-LEW-12785-1] c 37 N78-24545
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[NASA-CASE-NPO-13342-2] c 44 N76-29700
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[NASA-CASE-ARC-11257-1] c 04 N81-21047
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[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
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[NASA-CASE-MFS-25302-1] c 33 N83-28319
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[NASA-CASE-MFS-25319-1] c 60 N85-33701
AVIONICS
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
AXES (REFERENCE LINES)
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Universal restrainer and joint Patent
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[NASA-CASE-GSC-12630-1] c 33 N83-36355
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Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
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[NASA-CASE-XMS-07487] c 15 N71-23255
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
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[NASA-CASE-MSC-20497-1] c 34 N85-29180
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[NASA-CASE-LAR-13019-1] c 07 N85-35194
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Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
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[NASA-CASE-MFS-28273-1] c 37 N88-23974
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Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Method and turbine for extracting kinetic energy from *a stream of two-phase fluid*
[NASA-CASE-NPO-14130-1] c 34 N79-20335
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[NASA-CASE-XMF-01371] c 15 N70-41829
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Metallic threaded composite fastener
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AXIAL STRESS
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
AZIMUTH
Optical tracking mount Patent
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Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Magnetic heading reference
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Aircraft body-axis rotation measurement system
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AZINES
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[NASA-CASE-XMF-08656] c 06 N71-11242
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Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
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Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
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Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
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Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
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[NASA-CASE-XNP-03835] c 06 N71-23499
Bacterial contamination monitor
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Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
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Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
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Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
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[NASA-CASE-GSC-11533-1] c 14 N73-13435
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[NASA-CASE-LAR-10317-1] c 32 N71-16103
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[NASA-CASE-XLA-04605] c 32 N71-16106
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[NASA-CASE-KSC-10639] c 15 N73-26472
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
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[NASA-CASE-ARC-11502-1] c 74 N86-20125
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Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
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Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
A method and technique for installing light-weight fragile, high-temperature fiber insulation
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Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
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[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
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[NASA-CASE-LEW-10856-1] c 15 N72-22490
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[NASA-CASE-LEW-11087-1] c 15 N73-30458
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[NASA-CASE-MFS-23447-1] c 37 N79-11404
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[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

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[NASA-CASE-MSC-12393-1] c 02 N73-26006

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Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
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[NASA-CASE-MSC-18407-1] c 33 N82-24427

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[NASA-CASE-MFS-28425-1] c 35 N92-33010

BALLOONS
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

BALLS
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Flexible robotic arm
[NASA-CASE-GSC-13161-1] c 37 N92-33634

BANDPASS FILTERS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

BANDWIDTH
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

BARIUM
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

BARIUM COMPOUNDS
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

BARIUM FLUORIDES
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

BARIUM ION CLOUDS
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

BARIUM OXIDES
An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

BARIUM TITANATES
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

BARRIER LAYERS
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464
An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246
Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912
Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N93-15151

BARRIERS
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

BARS
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N93-14870

BASES (CHEMICAL)
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

BATHING
Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

BATHS
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

BATTERY CHARGERS
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BAYS (STRUCTURAL UNITS)
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727

BEADS
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BEAM LEADS
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

BEAM SWITCHING
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

BEAMS (RADIATION)
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

BEAMS (SUPPORTS)
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
BEARING
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
BEARING (DIRECTION)
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
BEARINGS
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174
Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N93-14871
BEDS (PROCESS ENGINEERING)
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
BEER LAW
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
BEES
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
BELLOWS
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
High-temperature, bellows hybrid seal
[NASA-CASE-LEW-15570-1] c 37 N93-19027
BELTS
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
BEND TESTS
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
BENDING
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866
BENDING DIAGRAMS
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
BENDING FATIGUE
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
BENDING MOMENTS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
BENDING VIBRATION
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
BENZENE
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
BERYLLIUM ALLOYS
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
BERYLLIUM HYDRIDES
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
BERYLLIUM OXIDES
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
BIDIRECTIONAL REFLECTANCE
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
BIMETALS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
BINARY CODES
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
BINARY DATA
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
BINARY DIGITS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
BINARY FLUIDS
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
BINARY TO DECIMAL CONVERTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINDERS (MATERIALS)
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of *manufacture*
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208

BINOCULARS
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

BIOASSAY
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

BIODEGRADATION
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

BIODYNAMICS
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

BIOELECTRIC POTENTIAL
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

BIOELECTRICITY
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

BIOENGINEERING
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

BIOINSTRUMENTATION
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

BIOLOGICAL EFFECTS
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
Kinetic tetrazolium microtiter assay
[NASA-CASE-MSC-21979-1] c 51 N93-17049

BIOLUMINESCENCE
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BIOMEDICAL DATA
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

BIOMETRICS
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
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[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
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[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

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Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

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Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052
Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
High aspect reactor vessel and method of use
[NASA-CASE-MSC-21662-1] c 51 N92-34232
Method for culturing mammalian cells in a perfused bioreactor
[NASA-CASE-MSC-21293-2] c 51 N93-10109
Method for culturing mammalian cells in a horizontally rotated bioreactor
[NASA-CASE-MSC-21294-2] c 51 N93-10110
High density cell culture system
[NASA-CASE-MSC-22060-1] c 51 N93-19037

BIOTECHNOLOGY
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[NASA-CASE-MSC-20929-1] c 51 N91-14703
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

BIOTELEMETRY
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

BIPOLARITY
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245

BIREFRINGENCE
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BIREFRINGENT FILTERS
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BISMALEIMIDE
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

BISMUTH
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

BISMUTH COMPOUNDS
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT ERROR RATE
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

BIT SYNCHRONIZATION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

BLADE TIPS
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

BLADES
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOCK COPOLYMERS
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

BLOOD
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

BLOOD FLOW
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY TEMPERATURE
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Induction boiler
[NASA-CASE-MFS-28634-1] c 37 N92-24055

BOILING
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BOLOMETERS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTED JOINTS
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Robot-friendly connector --- space truss structures
[NASA-CASE-MSC-21864-1] c 37 N92-23544
Slip joint connector
[NASA-CASE-MFS-28659-1] c 37 N93-17080

BOLTS
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
Saddle clamp assembly
[NASA-CASE-MFS-28701-1] c 37 N93-17057
Slip joint connector
[NASA-CASE-MFS-28659-1] c 37 N93-17080

BONDING
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
A method and apparatus for indicating disbonds in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859
Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700

BONES
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

BOOLEAN ALGEBRA
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

BOOMS (EQUIPMENT)
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

BOOSTER RECOVERY
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

BOOSTER ROCKET ENGINES
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

BOOTS (FOOTWEAR)
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

BOREHOLES
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

BORIDES
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

BORING MACHINES
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

BORON
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BORON CARBIDES
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

BORON CHLORIDES
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

BORON COMPOUNDS
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

BORON FLUORIDES
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

BORON OXIDES
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026

BOROSILICATE GLASS
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097

BOULES
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

BOUNDARY CONDITIONS
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

BOUNDARY LAYER CONTROL
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

BOUNDARY LAYER FLOW
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Boundary layer relaminarization device
[NASA-CASE-LAR-14470-1] c 02 N93-11876

BOUNDARY LAYER SEPARATION
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Stall departure resistance enhancer
[NASA-CASE-LAR-14221-1] c 06 N93-19023

BOUNDARY LAYER TRANSITION
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

BOUNDARY LAYERS
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Boundary layer relaminarization device
[NASA-CASE-LAR-14470-1] c 02 N93-11876

BOXES (CONTAINERS)
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

BRACKETS
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092

BRAGG CELLS
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

BRAIDED COMPOSITES
Method and apparatus for three dimensional braiding
[NASA-CASE-LAR-14047-1] c 31 N93-19038

BRAILLE
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BRAKES
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

BRAKES (FOR ARRESTING MOTION)
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

BRAKING
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

BRAZING
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

BREATHING APPARATUS
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

BRICKS
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

BRIDGMAN METHOD
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

BRIGHTNESS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

BRIGHTNESS DISCRIMINATION
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

BRITTLENESS
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068

Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

BROADBAND
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012

BROADBAND AMPLIFIERS
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

BROADCASTING
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

BROMINATION
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

BROMINE
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

BROMINE COMPOUNDS
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

BRONZES
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

BRUSH SEALS
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318

BRUSHES
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

BRUSHES (ELECTRICAL CONTACTS)
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

BUBBLES
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

BUCKLING
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

BUFFER STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BUFFERS (CHEMISTRY)
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454

BULBS
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

BUOYANCY
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

BURNOUT
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

BURNS (INJURIES)
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

BUS CONDUCTORS
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

BUSHINGS
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221

BUTANES
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

BUTYRIC ACID
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

C

CABLE FORCE RECORDERS
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

CABLES
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

CABLES (ROPES)
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212

CADMIUM COMPOUNDS
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

CADMIUM SULFIDES
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

CALCIUM
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

CALCIUM FLUORIDES
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

CALCIUM OXIDES
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CALCIUM PHOSPHATES
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Slow-release fertilizer
[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054

CALCULATORS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

CALCULI
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

CALIBRATING
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030

CALORIMETERS
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

CAMERA SHUTTERS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

CAMERAS
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027
Electronic still camera
[NASA-CASE-MSC-21797-1] c 35 N93-17076
Operator-tailored adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N93-17273
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276

CAMS
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

CANARD CONFIGURATIONS
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

CANCELLATION
System and method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-1] c 34 N93-11172

CANCER
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

CANNING
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

CANOPIES
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CANS
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

CANTILEVER BEAMS
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

CANTILEVER MEMBERS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

CAPACITANCE
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N93-14701

CAPACITANCE SWITCHES
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

CAPACITORS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14418-1] c 32 N92-31257
High energy and high power density ultracapacitors and supercapacitors
[NASA-CASE-NPO-18568-1-CU] c 33 N93-17274
Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277
Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278

CAPILLARY FLOW
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

CAPILLARY TUBES
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

CARBAZOLES
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

CARBIDES
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

CARBOHYDRATES
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

CARBON
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

CARBON ARCS
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

CARBON COMPOUNDS
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

CARBON DIOXIDE
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

CARBON DIOXIDE LASERS
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

CARBON DIOXIDE REMOVAL
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

CARBON FIBER REINFORCED PLASTICS
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

CARBON FIBERS
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861

CARBON MONOXIDE
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

CARBON-CARBON COMPOSITES
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

CARBONACEOUS MATERIALS
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CARBONATES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015

CARBORANE
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBOXYL GROUP
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

CARCINOGENS
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

CARDIOGRAPHY
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727

CARRIER FREQUENCIES
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

CARRIER LIFETIME
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

CARRIER WAVES
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
CARTESIAN COORDINATES
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039
CARTRIDGES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
CASCADE CONTROL
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
CASCADE FLOW
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
CASE BONDED PROPELLANTS
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
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Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
CASSEGRAIN ANTENNAS
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
CASSEGRAIN OPTICS
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
CASTING
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214
Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543
CASTINGS
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
CATALYSIS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
CATALYSTS
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
CATALYTIC ACTIVITY
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
CATCHERS
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
CATHETERIZATION
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
CATHODE RAY TUBES
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
CATHODES
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
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[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
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Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
CAVITATION FLOW
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
CAVITIES
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[NASA-CASE-NPO-10810] c 14 N71-27323
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Burrowing apparatus
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[NASA-CASE-NPO-14596-1] c 31 N81-33319
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[NASA-CASE-MSC-18606-1] c 32 N82-11336
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[NASA-CASE-ARC-14408-1] c 27 N82-33523
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[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
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[NASA-CASE-LAR-14031-1] c 05 N90-20079
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[NASA-CASE-LAR-14050-1] c 31 N90-21216
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[NASA-CASE-LAR-13875-1] c 05 N91-27156
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Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
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[NASA-CASE-XNP-00449] c 14 N70-35220
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[NASA-CASE-XNP-03637] c 15 N71-21311
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[NASA-CASE-MSC-12259-2] c 07 N72-33146
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[NASA-CASE-ARC-10463-1] c 09 N73-32111
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[NASA-CASE-HQN-10790-1] c 36 N74-11313
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[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
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[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551

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[NASA-CASE-GSC-11444-1] c 14 N73-28490
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[NASA-CASE-MSC-12593-1] c 17 N76-21250

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[NASA-CASE-XNP-06510] c 14 N71-23797

CELL ANODES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
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[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

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CELL DIVISION
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[NASA-CASE-LAR-10773-3] c 51 N77-25769

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[NASA-CASE-XMS-02952] c 18 N71-20742

CELLS (BIOLOGY)
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
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[NASA-CASE-MSC-21293-1] c 51 N91-21700
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[NASA-CASE-MSC-21361-1] c 51 N91-21701
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[NASA-CASE-MSC-21294-1] c 51 N91-30667
Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052
Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728
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[NASA-CASE-MFS-28370-1] c 35 N92-31790
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[NASA-CASE-MSC-21560-1] c 51 N92-34229
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[NASA-CASE-MSC-21559-1] c 51 N92-34231
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[NASA-CASE-MSC-21662-1] c 51 N92-34232
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[NASA-CASE-MSC-21293-2] c 51 N93-10109
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[NASA-CASE-MSC-21294-2] c 51 N93-10110
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Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

CELLULOSE NITRATE
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

CENTERBODIES
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

CENTRAL PROCESSING UNITS
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

CENTRIFUGAL COMPRESSORS
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081

CENTRIFUGAL FORCE
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

CENTRIFUGES
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[NASA-CASE-XAC-00399] c 11 N70-34815
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

CERAMIC BONDING
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[NASA-CASE-XLE-01604-2] c 15 N71-15610
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

CERAMIC COATINGS
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[NASA-CASE-XLA-03105] c 15 N69-27483
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
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[NASA-CASE-LEW-13269-1] c 18 N83-20996
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[NASA-CASE-LEW-1335901] c 27 N83-31855
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
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[NASA-CASE-LEW-15164-1] c 27 N91-25298
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726

CERAMIC HONEYCOMBS
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[NASA-CASE-ARC-11652-1] c 27 N87-23737

CERAMIC MATRIX COMPOSITES
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[NASA-CASE-LEW-14392-1] c 27 N87-28656
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[NASA-CASE-LEW-14392-2] c 27 N89-29538
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[NASA-CASE-LEW-15263-1] c 24 N93-11543

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[NASA-CASE-LEW-10219-1] c 18 N71-28729

CERAMICS
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
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[NASA-CASE-LEW-14392-2] c 27 N89-29538
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[NASA-CASE-LAR-14050-1] c 31 N90-21216
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[NASA-CASE-GSC-13199-1] c 27 N90-23541
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461
Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
Method and apparatus for evaluating multilayer objects for imperfections
[NASA-CASE-LAR-14581-1-SB] c 38 N93-12204
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N93-14706
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[NASA-CASE-LEW-15489-1] c 27 N93-17062

CEREBROSPINAL FLUID
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

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[NASA-CASE-XLE-00106] c 15 N71-16076
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

CESIUM
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

CESIUM DIODES
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

CESIUM ENGINES
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

CESIUM VAPOR
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

CHALCOGENIDES
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

CHAMBERS
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

CHANGE DETECTION
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

CHANNEL FLOW
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

CHANNELS (DATA TRANSMISSION)
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052

CHARACTER RECOGNITION
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

CHARACTERIZATION
Method of characterizing residual stress in ferromagnetic materials using a pulse histogram of acoustic emission signals
[NASA-CASE-LAR-14239-1] c 26 N93-14705

CHARGE COUPLED DEVICES
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755
Electronic still camera
[NASA-CASE-MSC-21797-1] c 35 N93-17076

CHARGE DISTRIBUTION
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

CHARGE EFFICIENCY
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

CHARGE EXCHANGE
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148

CHARGE TRANSFER
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[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

CHARGE TRANSFER DEVICES
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

CHARGED PARTICLES
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

CHARGING
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

CHARRING
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

CHASSIS
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

CHECKOUT
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

CHELATES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

CHEMICAL ANALYSIS
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CHEMICAL AUXILIARY POWER UNITS
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

CHEMICAL BONDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

CHEMICAL COMPOSITION
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N93-18856

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Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
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[NASA-CASE-XLA-03104] c 06 N71-11235
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[NASA-CASE-XMF-08651] c 06 N71-11236
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[NASA-CASE-NPO-10701] c 06 N71-28620
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[NASA-CASE-XMF-08674] c 06 N71-28807
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[NASA-CASE-NPO-10998-1] c 06 N73-32029
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[NASA-CASE-LEW-14345-6] c 23 N92-17882
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[NASA-CASE-NPO-15851-1] c 37 N85-21652
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[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
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[NASA-CASE-LAR-14440-1] c 23 N92-10066
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[NASA-CASE-LEW-12159-1] c 44 N78-19599

Efficiency of silicon solar cells containing chromium
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Negative electrode catalyst for the iron chromium redox energy storage system
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[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
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[NASA-CASE-NPO-10034] c 15 N71-17685
Polyimide resin-fiberglass cloth laminates for printed circuit boards
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[NASA-CASE-MFS-21919-1] c 10 N73-25243
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[NASA-CASE-NPO-13157-1] c 37 N74-32918
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[NASA-CASE-NPO-13253-1] c 37 N75-18573
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
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Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Solar concentrator protective system
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Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

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[NASA-CASE-XGS-04808] c 03 N69-25146
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
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[NASA-CASE-ERC-10075-2] c 09 N72-22196
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[NASA-CASE-LEW-10489-1] c 15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

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Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
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Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

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[NASA-CASE-XLA-01288] c 09 N69-21470
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
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[NASA-CASE-GSC-10667-1] c 10 N71-33129
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[NASA-CASE-FRC-10036] c 09 N72-22200
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
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[NASA-CASE-NPO-11078] c 09 N72-25262
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[NASA-CASE-XLA-09843] c 15 N72-27485
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
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[NASA-CASE-GSC-11340-1] c 10 N72-33230
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
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[NASA-CASE-MFS-21214-1] c 09 N73-30181
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Peak holding circuit for extremely narrow pulses
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High voltage distributor
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[NASA-CASE-NPO-14416-1] c 44 N81-14389
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[NASA-CASE-MFS-25477-1] c 33 N84-14424
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[NASA-CASE-LEW-13570-1] c 33 N84-16452
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[NASA-CASE-NPO-15345-1] c 74 N84-23247
Dielectric based submillimeter backward wave oscillator circuit
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High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
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[NASA-CASE-LAR-14203-1] c 36 N89-28817
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
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[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
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[NASA-CASE-LAR-13772-1] c 36 N92-31788
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[NASA-CASE-MSC-21463-1] c 37 N92-33018

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[NASA-CASE-XMF-00462] c 14 N70-34298

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Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

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Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
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[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
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[NASA-CASE-ARC-11349-1] c 37 N86-20797
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[NASA-CASE-LAR-14169-1] c 37 N92-17677
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Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
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[NASA-CASE-XMF-01452] c 15 N70-41371
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[NASA-CASE-XLA-05100] c 15 N71-17696
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[NASA-CASE-MSC-21589-1] c 54 N92-29137
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[NASA-CASE-LAR-10590-1] c 15 N70-26819
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[NASA-CASE-NPO-15851-1] c 37 N85-21652
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[NASA-CASE-ERC-10081] c 14 N72-28437
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
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[NASA-CASE-NPO-15351-1] c 06 N83-10040
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[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148
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Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
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[NASA-CASE-ERC-10338] c 04 N72-33072
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[NASA-CASE-ARC-11909-1] c 03 N91-31113
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[NASA-CASE-NPO-10143] c 10 N71-26326
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[NASA-CASE-XNP-06234] c 10 N71-27137
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[NASA-CASE-MSC-12531-1] c 35 N75-30504
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[NASA-CASE-MSC-12559-1] c 18 N76-14186
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[NASA-CASE-XNP-01501] c 21 N70-41930
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[NASA-CASE-MFS-23059-1] c 44 N76-27664
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[NASA-CASE-XLA-03213] c 05 N71-11207
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[NASA-CASE-LEW-11101-1] c 31 N73-32750
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[NASA-CASE-MSC-14771-1] c 54 N77-32722
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
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[NASA-CASE-MSC-21629-1] c 54 N91-31803
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[NASA-CASE-NPO-16203-1] c 23 N85-35227
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[NASA-CASE-KSC-10730-1] c 14 N73-32318
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[NASA-CASE-LAR-12644-1] c 37 N84-28084
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[NASA-CASE-MSC-20475-1] c 37 N87-17037
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[NASA-CASE-NPO-14035-1] c 32 N83-19968
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[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086
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[NASA-CASE-LAR-14489-1] c 37 N91-27562
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[NASA-CASE-MFS-23720-3] c 43 N79-25443
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[NASA-CASE-MFS-23721-1] c 31 N79-28370
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[NASA-CASE-MFS-23725-1] c 43 N79-31706
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[NASA-CASE-MFS-23720-1] c 43 N80-23711
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[NASA-CASE-NPO-14272-1] c 25 N81-33246
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[NASA-CASE-NPO-14902-1] c 25 N82-29371
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[NASA-CASE-NPO-15304-1] c 25 N83-31743
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[NASA-CASE-NPO-15210-1] c 25 N84-22709

Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

COAL GASIFICATION
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

COAL LIQUEFACTION
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

COAL UTILIZATION
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
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[NASA-CASE-NPO-15592-1] c 71 N84-16940
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[NASA-CASE-NPO-15928-1] c 26 N85-29005
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
Process for applying a superconductive powder to a wide variety of substrates
[NASA-CASE-LAR-14729-1-CU] c 33 N93-19051

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Bonded solid lubricant coating Patent
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[NASA-CASE-ERC-10468] c 09 N72-20206
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
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[NASA-CASE-LEW-13837-1] c 24 N84-22695
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[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
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[NASA-CASE-LAR-13225-1] c 24 N90-25197
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397

COAXIAL CABLES
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462

COAXIAL PLASMA ACCELERATORS
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[NASA-CASE-MFS-22145-2] c 75 N76-17951

COBALT
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COBALT ALLOYS
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

COBALT COMPOUNDS
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

COBALT OXIDES
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

COCKPIT SIMULATORS
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

COCKPITS
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CODERS
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133

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Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133

COEFFICIENT OF FRICTION
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

COENZYMES
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

COHERENT ELECTROMAGNETIC RADIATION
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

COHERENT LIGHT
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

COHERENT RADIATION
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

COLD CATHODES
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327

COLD GAS
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

COLD WORKING
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

COLLAPSE
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152

COLLECTION
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

COLLIMATION
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N93-18277

COLLIMATORS
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

COLLISION AVOIDANCE
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132

COLLISIONS
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

COLLOIDAL GENERATORS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

COLLOIDAL PROPELLANTS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

COLLOIDS
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

COLOR
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

COLOR PHOTOGRAPHY
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

COLOR TELEVISION
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083

COLOR VISION
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

COLUMNS
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

COLUMNS (PROCESS ENGINEERING)
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

COLUMNS (SUPPORTS)
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

COMBINATORIAL ANALYSIS
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

COMBINED CYCLE POWER GENERATION
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

COMBINED STRESS
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028

COMBUSTION
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Protective helmet assembly
[NASA-CASE-MSC-21842-1] c 54 N93-17088

COMBUSTION CHAMBERS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

COMBUSTION CONTROL
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

COMBUSTION EFFICIENCY
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

COMBUSTION PHYSICS
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

COMBUSTION PRODUCTS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

COMBUSTION STABILITY
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

COMET TAILS
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

COMFORT
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

COMMAND AND CONTROL
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779

COMMAND MODULES
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

COMMUNICATING
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207

COMMUNICATION
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146

COMMUNICATION CABLES
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

COMMUNICATION EQUIPMENT
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316

COMMUNICATION NETWORKS
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

COMMUNICATION SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

COMMUTATION
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

COMMUTATORS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

COMPARATOR CIRCUITS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

COMPARATORS
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

COMPARTMENTS
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171

COMPATIBILITY
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

COMPENSATORS
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

COMPLEX COMPOUNDS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

COMPLEX SYSTEMS
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

COMPONENT RELIABILITY
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

COMPOSITE MATERIALS
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700
Rapid detection and quantification of features such as damage or flaws in composite and metallic structures
[NASA-CASE-LAR-14850-1-CU] c 38 N93-17048
Numerical control fabrication technique for dynamic composite models
[NASA-CASE-LAR-14004-1] c 63 N93-19024
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

COMPOSITE PROPELLANTS
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

COMPOSITE STRUCTURES
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

COMPOSITION (PROPERTY)
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

COMPRESSED AIR
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

COMPRESSIBILITY
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

COMPRESSIBLE FLUIDS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

COMPRESSING
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N93-13417

COMPRESSION LOADS
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

COMPRESSION RATIO
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

COMPRESSION TESTS
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

COMPRESSIVE STRENGTH
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022

COMPRESSOR BLADES
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

COMPRESSOR ROTORS
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

COMPRESSORS
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243
Cooled spool piston compressor
[NASA-CASE-MSC-22020-1] c 37 N93-19331

COMPUTATION
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTATIONAL FLUID DYNAMICS
Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

COMPUTATIONAL GRIDS
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039

COMPUTER AIDED MAPPING
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563

COMPUTER ANIMATION
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

COMPUTER ASSISTED INSTRUCTION
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

COMPUTER COMPONENTS
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COMPUTER DESIGN
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COMPUTER GRAPHICS
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

COMPUTER INFORMATION SECURITY
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

COMPUTER NETWORKS
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

COMPUTER PROGRAMMING
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855

COMPUTER PROGRAMS
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

COMPUTER STORAGE DEVICES
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704
Acceleration recorder and playback module
[NASA-CASE-MSC-22008-1] c 35 N93-17077

COMPUTER SYSTEMS DESIGN
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884

COMPUTER SYSTEMS PERFORMANCE
Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

COMPUTER TECHNIQUES
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

COMPUTER VISION
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
Operator-tailored adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N93-17273
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276

COMPUTERIZED SIMULATION
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129

COMPUTERS
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855

CONCAVITY
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

CONCENTRIC CYLINDERS
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

CONCENTRIC SPHERES
Method and apparatus for producing concentric hollow spheres --- *inertial confinement fusion* targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONCURRENT PROCESSING
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

CONDENSATES
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953

CONDUCTING FLUIDS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTING POLYMERS
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

CONDUCTION ELECTRONS
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120

CONDUCTIVITY
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

CONDUCTORS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

CONES
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
New kinematic functions for redundancy resolution using configuration control
[NASA-CASE-NPO-18608-1-CU] c 63 N93-17275

CONFINEMENT
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical *microwave antenna*
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL FLOW
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

CONICAL SCANNING
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS
Device for determining the accuracy of the flare on a *flared tube*
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
Robot-friendly connector --- space truss structures
[NASA-CASE-MSC-21864-1] c 37 N92-23544
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423
Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712
Slip joint connector
[NASA-CASE-MFS-28659-1] c 37 N93-17080

CONSCIOUSNESS
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSOLIDATION
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

CONSTANTS
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

CONSTRAINTS
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

CONSTRUCTION
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212

CONSTRUCTION MATERIALS
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

CONTACT POTENTIALS
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

CONTAINERLESS MELTS
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

CONTAINERS
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

CONTAINMENT
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

CONTAMINANTS
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Fluid separator
[NASA-CASE-MFS-28658-1] c 34 N93-17039

CONTAMINATION
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

CONTINUOUS RADIATION
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

CONTINUUM FLOW
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

CONTOUR SENSORS
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

CONTOURS
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Apparatus for damping operator induced oscillations of a controlled system --- flight control
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Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
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Underwing compression vortex attenuation device
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Brushless DC motor control system responsive to control signals generated by a computer or the like
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ARC length control for plasma welding
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Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Rotatable non-circular forebody flow controller
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A universal computer control system for motors
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Reconfigurable fuzzy cell
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Operator-tailored adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
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Robust high-performance control for robotic manipulators
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CONTROL VALVES
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Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Airflow control system for supersonic inlets
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Ultrasonically bonded value assembly
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Slow opening valve --- valve design for shuttle portable oxygen system
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Dual motion valve with single motion input
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Monogroove cold plate
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Low-noise nozzle valve
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High-temperature, high-pressure oxygen metering valve
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High voltage pulse generator Patent
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Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
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Two-axis controller Patent
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Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Wide power range microwave feedback controller
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Phase-angle controller for Stirling engines
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A universal computer control system for motors
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[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
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Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
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Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
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Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
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Air modulation apparatus
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Heat pipe cooled probe
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Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Surface tension confined liquid cryogen cooler
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[NASA-CASE-LEW-13609-1] c 25 N90-11824
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
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[NASA-CASE-XAC-00812] c 14 N71-15598
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[NASA-CASE-MFS-14114-2] c 09 N71-24807
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[NASA-CASE-NPO-10467] c 23 N71-26654
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Method and device for cooling Patent
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[NASA-CASE-XLE-00027] c 33 N71-29152
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Light shield and cooling apparatus --- high intensity ultraviolet lamp
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Rocket chamber and method of making
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Oil cooling system for a gas turbine engine
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Cooling system for removing metabolic heat from an hermetically sealed spacesuit
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Closed loop spray cooling apparatus
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Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
COORDINATES
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
COPOLYMERIZATION
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
COPOLYMERS
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
COPPER
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
COPPER ALLOYS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

COPPER CHLORIDES
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

COPPER COMPOUNDS
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

CORDAGE
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Superplastically formed diffusion bonded metallic *structure*
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700

CORK (MATERIALS)
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORRECTION
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543

CORRELATION
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Baseband signal combiner for large aperture antenna *array*
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

CORROSION
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium *hydroxide to hydrazine*
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Method of coating a substrate with a rapidly solidified *metal*
[NASA-CASE-GSC-12880-1] c 26 N86-32550
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Soldering with solder flux which leaves corrosion *resistant coating Patent*
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

CORRUGATED PLATES
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786

CORRUGATING
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Superplastically formed diffusion bonded metallic *structure*
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

COST ANALYSIS
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

COST EFFECTIVENESS
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

COST REDUCTION
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

COUCHES
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERBALANCES
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

COUNTERS
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
Real-time data compression of broadcast video *signals*
[NASA-CASE-LEW-14945-2] c 32 N92-10128

COUNTING CIRCUITS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

COUPLERS
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097

COUPLES
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

COUPLING
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

COUPLING CIRCUITS
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
COUPLINGS
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140
Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712
COVARIANCE
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
COVERINGS
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278
COWLINGS
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
CRACK GEOMETRY
High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329
CRACK OPENING DISPLACEMENT
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
CRACK PROPAGATION
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329
CRACKING (FRACTURING)
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
CRACKS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
CRANES
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212
CRASH LANDING
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
CREEP RUPTURE STRENGTH
Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
CREEP TESTS
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
CRITICAL EXPERIMENTS
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
CRITICAL TEMPERATURE
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
CROSS CORRELATION
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
CROSS FLOW
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390
CROSS POLARIZATION
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
CROSSED FIELDS
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
CROSSLINKING
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
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[NASA-CASE-LAR-12723-1] c 27 N85-20123
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[NASA-CASE-LEW-13770-5] c 27 N85-21352
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[NASA-CASE-LAR-14339-1] c 27 N90-26955
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[NASA-CASE-LAR-14036-1] c 27 N91-13562
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[NASA-CASE-LAR-14351-1] c 27 N92-33015
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[NASA-CASE-LAR-13925-2] c 27 N93-11059
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Crude oil desulfurization
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Support assembly for cryogenically coolable low-noise choke waveguide
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[NASA-CASE-XNP-08882] c 15 N69-39935
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Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
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[NASA-CASE-MFS-23281-1] c 35 N77-22450
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[NASA-CASE-NPO-13839-1] c 31 N78-25256
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[NASA-CASE-GSC-12173-1] c 51 N79-10694
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

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[NASA-CASE-XLE-00345] c 15 N70-38020
Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
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[NASA-CASE-XLE-03803-2] c 15 N71-17651
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
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[NASA-CASE-KSC-10622-1] c 31 N72-21893
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

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Cryogenic apparatus for measuring the intensity of *magnetic fields*
[NASA-CASE-XAC-02407] c 14 N69-27423
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
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[NASA-CASE-XLE-00688] c 14 N70-41330
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[NASA-CASE-XLE-02998] c 14 N70-42074
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
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[NASA-CASE-XLE-00586] c 15 N71-15968
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[NASA-CASE-KSC-10615] c 15 N73-12486
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Cryogenic liquid sensor
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Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

CRYOGENIC GYROSCOPES
Cryogenic gyroscope housing --- with annular disks for gas spin-up
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Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890

CRYOGENIC ROCKET PROPELLANTS
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
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[NASA-CASE-XNP-04731] c 15 N71-24042

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[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

CRYOGENIC TEMPERATURE
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

CRYOGENIC WIND TUNNELS
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

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Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151

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Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

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[NASA-CASE-XMF-02964] c 14 N71-17659
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[NASA-CASE-XMF-10968] c 14 N71-24234
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

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CRYSTAL DEFECTS
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[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

CRYSTAL FILTERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

CRYSTAL GROWTH
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[NASA-CASE-XLA-02057] c 26 N70-40015
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[NASA-CASE-NPO-10440] c 15 N72-21466
Vapor phase growth of groups 3-5 compounds by *hydrogen chloride transport of the elements*
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Process for fabricating SiC semiconductor devices
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[NASA-CASE-NPO-14298-1] c 76 N80-32244
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[NASA-CASE-NPO-14297-1] c 33 N81-19389
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[NASA-CASE-NPO-15811-1] c 76 N84-12968
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[NASA-CASE-NPO-15813-1] c 76 N85-30922
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[NASA-CASE-MFS-28144-1] c 76 N88-24545
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Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
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[NASA-CASE-LEW-15222-1] c 76 N91-26966
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[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
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[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
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[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

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Optical crystal temperature gauge with fiber optic connections
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Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
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[NASA-CASE-GSC-12804-1] c 33 N86-20668
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[NASA-CASE-LAR-13989-1] c 35 N91-13694

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[NASA-CASE-LAR-12099-1] c 27 N80-16158
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[NASA-CASE-NPO-15813-2] c 76 N87-15882
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[NASA-CASE-LAR-13732-1] c 27 N87-25474
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[NASA-CASE-LAR-14194-1] c 24 N90-15148
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[NASA-CASE-MFS-26047-1] c 29 N90-21209
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[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
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[NASA-CASE-MFS-20385] c 09 N71-24904
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[NASA-CASE-GSC-12762-1] c 37 N84-28083
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[NASA-CASE-MFS-25786-2] c 76 N90-20896
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[NASA-CASE-GSC-13173-1] c 33 N90-23635
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[NASA-CASE-MFS-26061-1] c 76 N91-16815
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[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
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[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
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[NASA-CASE-MSC-14836-1] c 52 N82-11770
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[NASA-CASE-LAR-10507-1] c 11 N72-25284
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[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
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[NASA-CASE-NPO-15213-1] c 51 N83-17045
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[NASA-CASE-ARC-11322-1] c 51 N83-28849
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[NASA-CASE-NPO-16203-1] c 23 N85-35227
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[NASA-CASE-MSC-20929-1] c 51 N91-14703
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[NASA-CASE-MSC-21293-1] c 51 N91-21700
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[NASA-CASE-MSC-21361-1] c 51 N91-21701
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[NASA-CASE-MSC-21294-1] c 51 N91-30667
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
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[NASA-CASE-MSC-21662-1] c 51 N92-34232
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[NASA-CASE-MSC-21293-2] c 51 N93-10109
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[NASA-CASE-LEW-13226-1] c 27 N81-17260
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[NASA-CASE-MSC-16934-3] c 24 N84-16262
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[NASA-CASE-LEW-13770-1] c 27 N84-27885
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[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
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[NASA-CASE-LEW-13770-2] c 25 N85-28982
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[NASA-CASE-ARC-11427-1] c 24 N86-19380
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[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
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[NASA-CASE-LAR-12931-2] c 27 N86-21675
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020
Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700

Process for applying a superconductive powder to a wide variety of substrates
[NASA-CASE-LAR-14729-1-CU] c 33 N93-19051
CURRENT AMPLIFIERS
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479
CURRENT DENSITY
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
CURRENT DISTRIBUTION
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
CURRENT REGULATORS
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
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[NASA-CASE-ERC-10075] c 09 N71-24800
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
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[NASA-CASE-GSC-10413] c 10 N71-26531
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479
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Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
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[NASA-CASE-XMS-01554] c 10 N71-10578
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Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
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Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
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Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
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[NASA-CASE-XKS-07953] c 15 N71-26134
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
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[NASA-CASE-GSC-12944-1] c 52 N86-19885
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[NASA-CASE-XLA-03102] c 14 N71-21079
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
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[NASA-CASE-LAR-12624-1] c 01 N83-35992
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
Core design for use with precision composite reflectors
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CYANATES
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
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Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
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Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
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[NASA-CASE-ARC-11176-1] c 27 N82-18389
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[NASA-CASE-ARC-11428-1] c 23 N86-19376
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[NASA-CASE-ARC-11428-3] c 23 N88-24692
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Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
CYCLIC LOADS
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
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Miniature cyclotron resonance ion source using small permanent magnet
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CYCLOTRON RESONANCE DEVICES
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
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[NASA-CASE-LEW-13429-1] c 33 N83-31952
CYLINDRICAL ANTENNAS
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
CYLINDRICAL BODIES
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
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[NASA-CASE-LAR-14207-1] c 35 N91-14590
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[NASA-CASE-MFS-28701-1] c 37 N93-17057
CYLINDRICAL CHAMBERS
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[NASA-CASE-LAR-12361-1] c 37 N83-19091
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Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
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Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
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[NASA-CASE-MSC-21361-1] c 51 N91-21701
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D

DAMAGE
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
Rapid detection and quantification of features such as damage or flaws in composite and metallic structures
[NASA-CASE-LAR-14850-1-CU] c 38 N93-17048
Pressure wall patch
[NASA-CASE-MFS-28724-1] c 18 N93-17061
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Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545
DAMPERS (VALVES)
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
DAMPING
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
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[NASA-CASE-ERC-10403-1] c 10 N73-26228
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

Check valve with poppet damping mechanism
[NASA-CASE-MSC-21903-1] c 37 N92-30101

DATA ACQUISITION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
System for memorizing maximum values
[NASA-CASE-MSC-21922-1] c 35 N93-14841
Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

DATA COLLECTION PLATFORMS
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Space communication system for compressed data with a concatenated *Reed-Solomon-Viterbi coding channel*
[NASA-CASE-NPO-13545-1] c 32 N77-12240
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-2] c 82 N92-23550

DATA CONVERTERS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052

DATA MANAGEMENT
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-2] c 82 N92-23550

DATA PROCESSING EQUIPMENT
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

DATA RECORDERS
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

DATA RETRIEVAL
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132
Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
System for memorizing maximum values
[NASA-CASE-MSC-21922-1] c 35 N93-14841

DATA STRUCTURES
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863

DATA SYSTEMS
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097

DATA TRANSFER (COMPUTERS)
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541

DATA TRANSMISSION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791
Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097
Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541

DAWSONITE
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEACTIVATION
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

DEBRIS
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

DECAY RATES
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
A space-time neural network for processing both spacial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314
Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

DECODERS
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011

DECODING
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

DECOMMUTATORS
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DECOMPOSITION
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

DECONTAMINATION
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DECOUPLING
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

DEEP SPACE NETWORK
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Method and apparatus for thermographically and quantitatively analyzing a structure for disbonds and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
Method and apparatus for evaluating multilayer objects for imperfections
[NASA-CASE-LAR-14581-1-SB] c 38 N93-12204
Rapid detection and quantification of features such as damage or flaws in composite and metallic structures
[NASA-CASE-LAR-14850-1-CU] c 38 N93-17048

DEFLECTION
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

DEFLECTORS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418

DEFOCUSING
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

DEGASSING
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

DEGREES OF FREEDOM
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553
User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153

DEHUMIDIFICATION
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

DEHYDRATED FOOD
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

DEHYDRATION
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
DEICERS
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
DEIONIZATION
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
DELAMINATING
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
Method and apparatus for evaluating multilayer objects for imperfections
[NASA-CASE-LAR-14581-1-SB] c 38 N93-12204
DELAY CIRCUITS
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
DELAY LINES
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
DELTA MODULATION
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
DELTA WINGS
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729
DEMAGNETIZATION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
DEMODULATION
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
DEMODULATORS
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
DENDRITIC CRYSTALS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
DENSIFICATION
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
DENSITOMETERS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
DENSITY (MASS/VOLUME)
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
DENSITY DISTRIBUTION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
DENSITY MEASUREMENT
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421
DENTISTRY
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
DEOXIDIZING
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
DEOXYGENATION
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
DEPLOYMENT
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057
DEPOSITION
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N93-13419
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
DEPOSITS
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
DEPTH
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Stereoscopic camera and viewing systems with *undistorted depth presentation and reduced or eliminated* erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
DEPTH MEASUREMENT
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723
DESCENT
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
DESIGN ANALYSIS
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830
DESORPTION
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
DESTRUCTIVE TESTS
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
DESULFURIZING
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
DETECTION
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569

Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
Rapid detection and quantification of features such as damage or flaws in composite and metallic structures
[NASA-CASE-LAR-14850-1-CU] c 38 N93-17048
Discrete optical fiber strain sensor
[NASA-CASE-LAR-14810-1-SB] c 35 N93-19492

DETECTORS
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

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[NASA-CASE-NPO-11743-1] c 28 N74-27425
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[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
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[NASA-CASE-LAR-13832-1] c 28 N91-28444
Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
Performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N93-18274

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[NASA-CASE-LAR-13832-1] c 28 N91-28444
Performance of blasting caps
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Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
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[NASA-CASE-MFS-28287-1] c 35 N88-23959

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[NASA-CASE-XMF-04133] c 06 N71-20717
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[NASA-CASE-MFS-13994-2] c 06 N72-25148
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[NASA-CASE-LAR-12054-1] c 27 N79-33316
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[NASA-CASE-ARC-11421-2] c 27 N86-31726
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[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
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[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
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[NASA-CASE-LAR-14162-1] c 27 N90-15259
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[NASA-CASE-LEW-15027-1] c 27 N91-13566
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[NASA-CASE-LAR-14188-2] c 23 N91-14419
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[NASA-CASE-LEW-14345-4] c 23 N91-25185
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[NASA-CASE-LAR-14206-1] c 27 N91-28425
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[NASA-CASE-LEW-15043-1] c 27 N91-32230
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[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
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[NASA-CASE-LAR-14487-1] c 27 N92-11200
A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008
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[NASA-CASE-LEW-14345-7] c 23 N93-17412

DIAMONDS
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[NASA-CASE-MFS-20698] c 15 N72-20446
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[NASA-CASE-MFS-20698-2] c 15 N73-19457
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[NASA-CASE-LEW-13837-2] c 24 N85-21267

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[NASA-CASE-XMS-01546] c 14 N70-40233
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[NASA-CASE-XNP-01962] c 32 N70-41370
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[NASA-CASE-XLA-02651] c 28 N70-41967
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[NASA-CASE-XAC-00731] c 11 N71-15960
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[NASA-CASE-XLA-03660] c 15 N71-21060
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[NASA-CASE-XAC-02981] c 14 N71-21072
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[NASA-CASE-XNP-05297] c 15 N71-23811
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[NASA-CASE-MFS-14216] c 14 N73-13418
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
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[NASA-CASE-MSC-20797-1] c 37 N87-23981
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305
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[NASA-CASE-MFS-28682-1] c 27 N92-29831

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Diatomic infrared gasdynamic laser --- for producing different wavelengths
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[NASA-CASE-NPO-13506-1] c 35 N76-15435
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[NASA-CASE-GSC-12171-1] c 33 N79-28416

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[NASA-CASE-GSC-12219-1] c 35 N80-18359

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Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

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[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
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[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
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[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
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[NASA-CASE-HQN-10541-2] c 15 N71-27135
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[NASA-CASE-ERC-10011] c 07 N71-29065
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[NASA-CASE-XER-08476-1] c 26 N72-17820
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[NASA-CASE-LAR-10294-1] c 26 N72-28762
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[NASA-CASE-NPO-13171-1] c 32 N74-11000
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[NASA-CASE-MFS-22129-1] c 33 N75-18477
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[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by *plasma polymerization*
[NASA-CASE-ARC-10892-2] c 27 N79-14214
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[NASA-CASE-NPO-14254-1] c 36 N80-18372
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[NASA-CASE-ARC-11611-1] c 74 N87-28416
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[NASA-CASE-GSC-12442-2] c 33 N90-20282
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[NASA-CASE-LAR-13678-1] c 76 N90-24168
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
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[NASA-CASE-LAR-13678-3] c 35 N93-14714
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[NASA-CASE-LAR-14440-1] c 23 N93-18283
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[NASA-CASE-LAR-14591-1] c 35 N93-19493
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[NASA-CASE-LEW-13770-6] c 25 N85-30039
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
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[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
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[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
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[NASA-CASE-XNP-05297] c 15 N71-23811
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[NASA-CASE-XLE-06773] c 15 N71-23817
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[NASA-CASE-GSC-12619-1] c 37 N84-12491
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[NASA-CASE-LAR-13719-1] c 37 N89-12867
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[NASA-CASE-LAR-14459-1] c 24 N91-15334
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Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
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[NASA-CASE-LEW-12995-1] c 37 N84-33808
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[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
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[NASA-CASE-NPO-12119-1] c 52 N75-15270
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[NASA-CASE-SSC-00010-1] c 82 N91-23976
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Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
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Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
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[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification *system --- solar heating systems*
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
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[NASA-CASE-GSC-13179-1] c 33 N91-26438
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[NASA-CASE-XMF-05844] c 14 N71-17587
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[NASA-CASE-XMS-05894-1] c 15 N69-21924
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[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
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[NASA-CASE-FRC-11024-1] c 02 N80-28300
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Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
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[NASA-CASE-FRC-10090-1] c 33 N78-18308
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[NASA-CASE-ERC-10001] c 23 N71-24868
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[NASA-CASE-LAR-10204] c 14 N71-27215
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084
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Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
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Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
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Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
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A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
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[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall *effects*
[NASA-CASE-MSC-21384-1] c 34 N92-16243
Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912
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[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
DIFFUSION PUMPS
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
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[NASA-CASE-ARC-10447-1] c 52 N74-22771
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Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic *structure*
[NASA-CASE-FRC-11026-1] c 24 N82-24296
DIFFUSIVITY
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
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Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
DIGITAL COMPUTERS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
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[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space *vehicles* Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
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[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled *minority of clock elements*
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft *simulators*
[NASA-CASE-ARC-11158-1] c 09 N82-24212
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[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
DIGITAL DATA
Phase-shift data transmission system having a *pseudo-noise SYNC code modulated with the data in a* single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
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[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-2] c 82 N92-23550
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386

DIGITAL ELECTRONICS
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

DIGITAL FILTERS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device — removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
A space-time neural network for processing both spacial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314

DIGITAL INTEGRATORS
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine — providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network — of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer — for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331

DIGITAL TECHNIQUES
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

DIGITAL TO ANALOG CONVERTERS
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

DIGITAL TRANSDUCERS
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DILUTION
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

DIMENSIONAL MEASUREMENT
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N93-18285

DIMENSIONAL STABILITY
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

DIMENSIONS
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

DIPOLE ANTENNAS
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIPPING
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

DIRECT CURRENT
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278

DIRECT LIFT CONTROLS
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

DIRECTIONAL ANTENNAS
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

DIRECTIONAL COUPLERS
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N93-18285

DIRECTIONAL SOLIDIFICATION (CRYSTALS)
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

DIRECTIONAL STABILITY
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

DIRECTIVITY
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

DISABILITIES
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N93-14708

DISCONNECT DEVICES
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423

DISCONTINUITY
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084

DISILICIDES
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

DISKS
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

DISPENSERS
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

DISPERSING
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

DISPLACEMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
Helix translation device --- shim for precision displacements
[NASA-CASE-GSC-13141-1] c 37 N92-23548
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
An interferometer having fused optical fibers, and apparatus and method using the interferometer
[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052

DISPLACEMENT MEASUREMENT
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

DISPLAY DEVICES
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

DISPOSAL
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

DISSIPATION
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Consecutive plate acoustic suppressor apparatus and methods
[NASA-CASE-LEW-15430-1] c 71 N93-17051

DISSOCIATION
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

DISSOLVING
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Slow-release fertilizer
[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271

DISTANCE
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

DISTANCE MEASURING EQUIPMENT
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

DISTILLATION EQUIPMENT
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED FEEDBACK LASERS
Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N93-14703

DISTRIBUTED PROCESSING
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
A space-time neural network for processing both spacial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314

DISTRIBUTION (PROPERTY)
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

DOORS
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPED CRYSTALS
Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614

DOPES
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOPPLER EFFECT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

DOPPLER RADAR
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

DOSIMETERS
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DOWNLINKING
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

DRAG CHUTES
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

DRAG MEASUREMENT
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
A two-stage earth-to-orbit transport with translating *oblique wings for booster recovery*
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Polymer/riblet combination for hydrodynamic skin *friction reduction*
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243
Stall departure resistance enhancer
[NASA-CASE-LAR-14221-1] c 06 N93-19023

DRAINAGE
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

DRIFT (INSTRUMENTATION)
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N92-23378
Retractable tool bit having slider type catch mechanism
[NASA-CASE-GSC-13358-1] c 37 N93-14710

DRILLING
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

DRILLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

DRUGS
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

DRY HEAT
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

DRYING
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DRYING APPARATUS
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

DUCTED FANS
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DUCTILITY
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

DUCTS
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Atmospheric pressure flow reactor: Gas phase chemical *kinetics under tropospheric conditions without wall effects*
[NASA-CASE-MSC-21384-1] c 34 N92-16243

DURABILITY
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

DUST COLLECTORS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

DYE LASERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

DYNAMIC CHARACTERISTICS
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

DYNAMIC CONTROL
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

DYNAMIC LOADS
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

DYNAMIC MODELS
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Numerical control fabrication technique for dynamic composite models
[NASA-CASE-LAR-14004-1] c 63 N93-19024

DYNAMIC MODULUS OF ELASTICITY
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

DYNAMIC PRESSURE
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

DYNAMIC RESPONSE
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DYNAMIC STRUCTURAL ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952

DYNAMIC TESTS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

DYNAMICAL SYSTEMS
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

DYNAMOMETERS
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

EARPHONES
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953
EARTH ATMOSPHERE
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
EARTH CRUST
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
EARTH IONOSPHERE
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
EARTH ORBITAL ENVIRONMENTS
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
EARTH ORBITS
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999
ECCENTRICITY
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133
ECCENTRICS
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
ECHELLE GRATINGS
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
ECHO SOUNDING
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
ECHOES
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
EDDY CURRENTS
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Method and apparatus for thermographically and quantitatively analyzing a structure for disbonds and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
EDGES
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
EDITING
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
EDUCATION
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
EFFICIENCY
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
EFFLUENTS
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
EGRESS
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
EJECTION
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
EJECTION SEATS
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
EJECTORS
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
ELASTIC BODIES
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
ELASTIC DEFORMATION
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
ELASTIC MEDIA
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
ELASTIC PROPERTIES
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
ELASTIC SHEETS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
ELASTIC WAVES
System and method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-1] c 34 N93-11172
ELASTOMERS
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150
ELBOW (ANATOMY)
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
ELECTRIC ARCS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
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[NASA-CASE-XGS-03864] c 15 N69-24320
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
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[NASA-CASE-LEW-11359] c 03 N71-28579
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Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
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[NASA-CASE-MSC-21428-1] c 33 N91-14537
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[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
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[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
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[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753
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[NASA-CASE-FRC-10036] c 09 N72-22200
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
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[NASA-CASE-ARC-10364-2] c 33 N75-25041
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[NASA-CASE-XGS-01395] c 03 N69-21539
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
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[NASA-CASE-NPO-18343-1-CU] c 33 N93-11456

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Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
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[NASA-CASE-XGS-09186] c 33 N78-17295

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[NASA-CASE-XMS-05303] c 07 N69-27462
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
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[NASA-CASE-NPO-10821] c 03 N71-19545
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[NASA-CASE-NPO-10037] c 09 N71-19610
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[NASA-CASE-FRC-10029] c 09 N71-24618
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[NASA-CASE-NPO-11377] c 15 N73-27406
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[NASA-CASE-NPO-13087-2] c 44 N76-31666
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[NASA-CASE-MFS-23363-1] c 35 N78-32396
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[NASA-CASE-XLA-01288] c 09 N69-21470
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
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[NASA-CASE-NPO-10694] c 09 N72-20200
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
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[NASA-CASE-MFS-20757] c 09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
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[NASA-CASE-KSC-11030-1] c 52 N77-25772
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
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Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
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[NASA-CASE-LEW-11978-1] c 33 N77-26385
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

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Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

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Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
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[NASA-CASE-MSC-12135-1] c 09 N71-12526
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
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[NASA-CASE-NPO-13858-1] c 28 N79-11231
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
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[NASA-CASE-NPO-14096-1] c 44 N80-18551
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
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[NASA-CASE-MFS-28080-1] c 33 N87-21233
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
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[NASA-CASE-XMF-00375] c 15 N70-34249
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
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[NASA-CASE-XLE-2529-3] c 33 N74-20859
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

ELECTRIC ENERGY STORAGE
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
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[NASA-CASE-NPO-18568-1-CU] c 33 N93-17274

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[NASA-CASE-LAR-10218-1] c 09 N70-34559
Generator for a space power system Patent
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High impedance measuring apparatus Patent
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Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
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[NASA-CASE-GSC-10735-1] c 10 N71-26085
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[NASA-CASE-XGS-11177] c 09 N71-27001
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[NASA-CASE-ERC-10113] c 09 N71-27053
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[NASA-CASE-XLA-07788] c 09 N71-29139
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[NASA-CASE-GSC-10945-1] c 21 N72-31637
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
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[NASA-CASE-ARC-10197-1] c 33 N74-17929
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
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[NASA-CASE-NPO-13253-1] c 37 N75-18573
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Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH
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[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

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Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
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[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
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[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
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[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
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[NASA-CASE-LAR-14181-1] c 76 N91-21911
Method and apparatus for determining return stroke polarity of distant lightning
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[NASA-CASE-XMF-00663] c 08 N71-18752
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

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Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

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Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
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[NASA-CASE-XLE-03629] c 17 N71-23248
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
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[NASA-CASE-MFS-14114-2] c 09 N71-24807
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
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[NASA-CASE-MFS-10068] c 10 N71-25139
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[NASA-CASE-XMF-04958-1] c 10 N71-26414
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
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[NASA-CASE-NPO-13303-1] c 20 N75-24837
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[NASA-CASE-NPO-13308-1] c 36 N75-30524
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[NASA-CASE-ARC-10905-1] c 37 N77-13418
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[NASA-CASE-LAR-11389-1] c 33 N77-26387
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[NASA-CASE-MFS-23515-1] c 44 N80-21828
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

ELECTRIC IGNITION
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

ELECTRIC MOTOR VEHICLES
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

ELECTRIC MOTORS
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
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[NASA-CASE-XLA-07473] c 15 N71-24895
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

ELECTRIC NETWORKS
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

ELECTRIC POTENTIAL
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N93-14701
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704

ELECTRIC POWER
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

ELECTRIC POWER SUPPLIES
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

ELECTRIC POWER TRANSMISSION
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

ELECTRIC RELAYS
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056

ELECTRIC ROCKET ENGINES
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056

ELECTRIC TERMINALS
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094

ELECTRIC WIRE
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

ELECTRICAL ENGINEERING
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

ELECTRICAL FAULTS

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

ELECTRICAL IMPEDANCE

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

ELECTRICAL INSULATION

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

ELECTRICAL MEASUREMENT

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-2-CU] c 47 N93-10108

ELECTRICAL PROPERTIES

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

ELECTRICAL RESISTANCE

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

ELECTRICAL RESISTIVITY

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704

ELECTRICITY

Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037

ELECTRO-OPTICS

Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551

ELECTROACOUSTIC TRANSDUCERS

Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030

ELECTROACOUSTIC WAVES

Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606

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Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

ELECTROCATALYSTS

Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344

ELECTROCHEMICAL CELLS

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Catalyst surfaces for the chromous/chromic redox couple
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[NASA-CASE-LEW-14973-1] c 44 N92-10222
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[NASA-CASE-NPO-18580-1-CU] c 33 N93-17278

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[NASA-CASE-XNP-08835-1] c 37 N80-14395

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[NASA-CASE-LEW-12513-1] c 25 N79-22235
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[NASA-CASE-XMS-02872] c 05 N69-21925
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Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
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[NASA-CASE-XNP-02839] c 28 N70-41922
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
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[NASA-CASE-XFR-10856] c 05 N71-11189
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[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
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[NASA-CASE-FRC-10029] c 09 N71-24618
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[NASA-CASE-XMS-04213-1] c 09 N71-26002
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
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[NASA-CASE-FRC-10029-2] c 05 N72-25121
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[NASA-CASE-MSC-13648] c 05 N72-27103
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[NASA-CASE-ERC-10015-2] c 10 N72-27246
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[NASA-CASE-MFS-20589] c 25 N72-32688
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[NASA-CASE-NPO-11880] c 28 N73-24783
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[NASA-CASE-ERC-10224-2] c 09 N73-27150
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
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[NASA-CASE-LEW-11162-1] c 33 N74-12913
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
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[NASA-CASE-LEW-13148-2] c 44 N81-29524
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[NASA-CASE-LEW-12358-2] c 25 N82-21268
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[NASA-CASE-LEW-13282-1] c 33 N82-24415
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[NASA-CASE-GSC-10349-1] c 44 N82-24645
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[NASA-CASE-LEW-12443-1] c 44 N83-32175
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[NASA-CASE-NPO-15458-1] c 25 N84-12262
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[NASA-CASE-NPO-15161-1] c 33 N84-16456
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[NASA-CASE-LEW-13349-1] c 26 N84-22734
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
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[NASA-CASE-LEW-12919-2] c 70 N84-28565
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
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[NASA-CASE-GSC-12442-2] c 33 N90-20282
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030
High energy and high power density ultracapacitors and supercapacitors
[NASA-CASE-NPO-18568-1-CU] c 33 N93-17274
Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277

ELECTRODIALYSIS
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS
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[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

ELECTROLUMINESCENCE
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158

ELECTROLYSIS
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079
Water electrolysis
[NASA-CASE-MSC-21572-1-SB] c 25 N92-28756

ELECTROLYTES
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

ELECTROLYTIC CELLS
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Water electrolysis
[NASA-CASE-MSC-21572-1-SB] c 25 N92-28756

ELECTROMAGNETIC ABSORPTION
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

ELECTROMAGNETIC FIELDS
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE
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[NASA-CASE-MSC-12168-1] c 09 N71-18600
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N93-17060

ELECTROMAGNETIC MEASUREMENT
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

ELECTROMAGNETIC PROPERTIES
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

ELECTROMAGNETIC PROPULSION
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752

ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

ELECTROMAGNETIC SHIELDING
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Process for applying a superconductive powder to a wide variety of substrates
[NASA-CASE-LAR-14729-1-CU] c 33 N93-19051

ELECTROMAGNETIC WAVE FILTERS
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

ELECTROMAGNETS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018

ELECTROMECHANICAL DEVICES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

ELECTROMECHANICS
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727

ELECTROMETERS
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTRON ATTACHMENT
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

ELECTRON BEAM WELDING
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

ELECTRON BOMBARDMENT
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Single grid accelerator for an ion thrustor
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ELECTRON CAPTURE
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

ELECTRON ENERGY
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS
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[NASA-CASE-LAR-13181-1] c 31 N85-29083
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

ELECTRON IRRADIATION
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[NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES
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[NASA-CASE-XGS-01725] c 14 N69-39982
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186

ELECTRON MICROSCOPY
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

ELECTRON PHOTON CASCADES
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

ELECTRON PLASMA
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SCATTERING
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

ELECTRON SOURCES
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ELECTRON TRANSFER
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

ELECTRON TRANSITIONS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ion sputter textured graphite --- anode collector plates in electron tube devices
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[NASA-CASE-LEW-13429-1] c 33 N83-31952

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Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
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ELECTRONIC CONTROL
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[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

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Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
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[NASA-CASE-XNP-02792] c 14 N71-28958
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

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Analog to digital converter tester Patent
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Signal conditioner test set
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Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Cross-contact chain
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Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Notch filter
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Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

ELECTRONIC MODULES
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
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Redundant operation of counter modules
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ELECTRONIC PACKAGING
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Integrated circuit package with lead structure and *method of preparing the same*
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
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[NASA-CASE-XMS-01077-1] c 37 N79-33467
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[NASA-CASE-FRC-11042-1] c 60 N82-24839
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[NASA-CASE-ARC-11361-1] c 35 N84-22934
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

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Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Distributed-switch Dicke radiometers
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Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

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Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Portable electrophoresis apparatus using minimum electrolyte
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Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
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[NASA-CASE-MFS-23284-1] c 37 N80-14397
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

ELECTROPHOTOMETERS
Method and device for detecting voids in low density *material* Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

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Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

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Method of plating copper on aluminum Patent
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Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC BONDING
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

ELECTROSTATIC CHARGE
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

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Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

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Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872

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[NASA-CASE-LEW-11583-1] c 35 N79-17192
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

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Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

ELECTROSTATIC PROPULSION
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ELECTROSTATIC SHIELDING
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ELECTROSTATICS
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

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Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

ELEVATION
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

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Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

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High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

ELLIPSES
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

ELLIPSOIDS
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012

ELLIPSOMETERS
Remote sensing of vegetation and soil using microwave ellipsometry
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Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

ELUTION
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[NASA-CASE-NPO-12130-1] c 25 N75-14844
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Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052

EMBEDDING
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

EMBRITTLEMENT
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

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Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

Hazardous materials emergency response mobile robot
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Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
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[NASA-CASE-XMS-06162] c 31 N71-28851
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[NASA-CASE-MFS-21042] c 07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
EMERGENCY LOCATOR TRANSMITTERS
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374
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Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
EMISSIVITY
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N93-17060
EMITTANCE
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
EMITTERS
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
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[NASA-CASE-LEW-14731-1] c 44 N92-22037
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Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
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Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
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Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
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[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
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[NASA-CASE-XMF-09422] c 07 N71-19436
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
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[NASA-CASE-MSC-18866-1] c 35 N85-29213
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Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
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[NASA-CASE-MFS-25906-1] c 37 N86-20789
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[NASA-CASE-MFS-28161-1] c 37 N87-18817
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
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Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553
Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-1] c 37 N92-24243
Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N92-29138
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
Hazardous materials emergency response mobile robot
[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N93-13417
Retractable tool bit having slider type catch mechanism
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[NASA-CASE-GSC-13370-2] c 37 N93-18288
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Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
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[NASA-CASE-XLE-00720] c 14 N70-40201
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[NASA-CASE-XMF-10040] c 15 N71-22877
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[NASA-CASE-LAR-10193-1] c 15 N71-27146
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
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Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
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[NASA-CASE-XNP-00644] c 03 N70-36803
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[NASA-CASE-XLE-01716] c 09 N70-40234
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[NASA-CASE-GSC-11394-1] c 09 N73-32109
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[NASA-CASE-NPO-13308-1] c 36 N75-30524
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[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
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[NASA-CASE-LEW-14731-1] c 44 N92-22037
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[NASA-CASE-XLE-01015] c 03 N69-39898
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
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[NASA-CASE-MFS-23540-1] c 44 N79-26475
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[NASA-CASE-LEW-12586-1] c 44 N80-14472
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[NASA-CASE-NPO-15179-1] c 44 N82-26777
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
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ENERGY DISSIPATION
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[NASA-CASE-XLA-00754] c 15 N70-34850
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[NASA-CASE-LAR-11645-1] c 02 N77-10001
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High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
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[NASA-CASE-NPO-13443-1] c 76 N76-20994
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High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
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[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
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[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
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[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372
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[NASA-CASE-LAR-12706-1] c 35 N84-12444
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Thermal energy storage system --- operating on superheating of liquids
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Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
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[NASA-CASE-NPO-13675-1] c 44 N77-32580
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
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[NASA-CASE-NPO-13581-2] c 44 N78-31525
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

ENERGY SOURCES
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522

ENERGY STORAGE
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
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[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
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Solar energy collection system
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Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
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[NASA-CASE-NPO-13763-1] c 44 N78-33526
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[NASA-CASE-NPO-13904-1] c 25 N79-11152
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Solar energy collection system
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Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Method for forming a solar array strip
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[NASA-CASE-MFS-22743-1] c 44 N76-22657
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180
Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143

ENGINE ANALYZERS
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

ENGINE CONTROL
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

ENGINE COOLANTS
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

ENGINE DESIGN
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
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[NASA-CASE-MSC-12561-1] c 18 N76-17185
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640

ENGINE FAILURE
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

ENGINE INLETS
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

ENGINE MONITORING INSTRUMENTS
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

ENGINE NOISE
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

ENGINE PARTS
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

ENGINE STARTERS
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

ENGINE TESTS
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ENGINEERING DRAWINGS
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986

ENGRAVING
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

ENTHALPY
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

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Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

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Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604

ENVIRONMENT SIMULATION
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

ENVIRONMENT SIMULATORS
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

ENVIRONMENTAL CONTROL
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ENVIRONMENTAL ENGINEERING
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

ENVIRONMENTAL MONITORING
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561

ENVIRONMENTAL TESTS
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

ENVIRONMENTS
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

ENZYME ACTIVITY
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052

ENZYMES
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

EPICYCLOIDS
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

EPITAXY
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N93-15151

EPOXY COMPOUNDS
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

EPOXY MATRIX COMPOSITES
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

EPOXY RESINS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Process for applying a superconductive powder to a wide variety of substrates
[NASA-CASE-LAR-14729-1-CU] c 33 N93-19051
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

EQUATIONS OF MOTION
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

EQUIPMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

EQUIPMENT SPECIFICATIONS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Non-reusuable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

EQUIPOTENTIALS
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
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[NASA-CASE-MFS-21109-1] c 05 N73-27941
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[NASA-CASE-MFS-21010-1] c 05 N73-30078
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Ergometer calibrator --- for any ergometer utilizing rotating shaft
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[NASA-CASE-NPO-13086-1] c 15 N73-12495
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[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
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Self-correcting electronically scanned pressure sensor
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[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011
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[NASA-CASE-NPO-18771-1-CU] c 61 N93-11664

ERROR CORRECTING DEVICES
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Elimination of frequency shift in a multiplex communication system Patent
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[NASA-CASE-XNP-02748] c 08 N71-22749
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
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[NASA-CASE-NPO-10567] c 08 N71-24633
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[NASA-CASE-MSC-13110-1] c 08 N72-22163
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[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
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[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
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[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

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Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343

Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
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[NASA-CASE-MSC-13281] c 31 N72-18859
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[NASA-CASE-MSC-12086-1] c 05 N71-12345
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[NASA-CASE-XKS-07814] c 15 N71-27067
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[NASA-CASE-LAR-12624-1] c 01 N83-35992
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[NASA-CASE-MSC-21536-1] c 18 N92-21999
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Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
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[NASA-CASE-MFS-21040-1] c 06 N73-30098
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[NASA-CASE-LEW-15027-2] c 27 N92-24053
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[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
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Method for non-destructive estimation of waveguide directional coupler dimensions
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[NASA-CASE-XNP-02092] c 15 N70-42033
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[NASA-CASE-XGS-06306] c 17 N71-16044
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[NASA-CASE-XGS-04993] c 14 N71-17574
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[NASA-CASE-XMF-02303] c 17 N71-23828
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[NASA-CASE-XGS-03120] c 15 N71-24047
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
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[NASA-CASE-LEW-13899-1] c 31 N87-21160
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
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[NASA-CASE-ARC-11873-2] c 25 N91-31258
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947
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[NASA-CASE-LEW-14474-2] c 27 N92-11186
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[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
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[NASA-CASE-MFS-29576-1] c 25 N92-25399
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The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
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[NASA-CASE-LEW-14345-4] c 23 N91-25185
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[NASA-CASE-LEW-14345-6] c 23 N92-17882
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[NASA-CASE-XMF-02584] c 06 N71-20905
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[NASA-CASE-NPO-10768] c 06 N71-27254
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
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[NASA-CASE-LAR-13555-1] c 23 N86-32526
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
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[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
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[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753
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[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008
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[NASA-CASE-LAR-14351-1] c 27 N92-33015
ETHYL COMPOUNDS
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
The 5-(4-Ethynylophenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
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Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
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[NASA-CASE-XNP-09763] c 14 N71-20461
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
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Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
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[NASA-CASE-LEW-12906-1] c 26 N77-32279
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[NASA-CASE-LEW-12905-1] c 26 N78-18183
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[NASA-CASE-GSC-11577-3] c 24 N79-25143
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[NASA-CASE-XMS-01108] c 15 N69-24322
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Leak detector wherein a probe is monitored with ultraviolet radiation. Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
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[NASA-CASE-XLA-03105] c 15 N69-27483
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
Method and apparatus for controlling protein crystallization
[NASA-CASE-MFS-28688-1] c 76 N93-17043
EVAPORATIVE COOLING
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
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Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
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[NASA-CASE-MSC-20812-1] c 34 N86-27593
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[NASA-CASE-LEW-15235-1] c 34 N92-29125
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[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045
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[NASA-CASE-MFS-23315-1] c 76 N78-24950
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[NASA-CASE-NPO-16299-1] c 33 N87-14594
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[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
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[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029
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Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
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Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
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Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
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Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
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[NASA-CASE-LAR-11903-2] c 71 N84-14873
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[NASA-CASE-ARC-11170-1] c 27 N79-11215
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[NASA-CASE-MFS-25707-1] c 35 N82-26631
Thermal control system --- removing waste heat from industrial process spacecraft
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[NASA-CASE-XGS-01395] c 03 N69-21539
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[NASA-CASE-XLA-00138] c 31 N70-37981
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
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[NASA-CASE-LAR-13117-1] c 37 N86-25789
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[NASA-CASE-NPO-16236-1] c 44 N86-27706
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[NASA-CASE-LAR-13113-1] c 31 N87-25492
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Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
EXPERIMENT DESIGN
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
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[NASA-CASE-XAC-07043] c 05 N71-23161
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[NASA-CASE-MSC-21737-1] c 61 N91-13911
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
EXPIRED AIR
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
EXPLOSIONS
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
EXPLOSIVE DEVICES
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
EXPLOSIVE FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
EXPLOSIVE WELDING
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
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Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
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Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
EXPOSURE
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
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Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
EXPULSION BLADDERS
Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
EXTENSIONS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
EXTENSOMETERS
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
EXTERNAL COMBUSTION ENGINES
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
EXTERNAL STORE SEPARATION
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
EXTERNAL STORES
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
EXTERNAL TANKS
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
EXTRACTION
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
EXTRAVEHICULAR ACTIVITY
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
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[NASA-CASE-XMF-05344] c 31 N71-16345
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092
Extra-vehicular activity translation tool
[NASA-CASE-MSC-21955-1] c 37 N93-14842
EXTREME ULTRAVIOLET RADIATION
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
EXTREMELY LOW RADIO FREQUENCIES
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
EXTRUDING
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[NASA-CASE-NPO-10812] c 15 N73-13464
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Continuous coal processing method
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Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
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Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755
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EYE EXAMINATIONS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
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[NASA-CASE-XMS-06056-1] c 23 N71-24857

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Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Method of making a regeneratively cooled combustion chamber Patent
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Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Solar panel fabrication Patent
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Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Method of removing insulated material from insulated wires
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Thin film temperature sensor and method of making same
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Fabrication of polycrystalline solar cells on low-cost substrates
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[NASA-CASE-NPO-13707-1] c 74 N77-28933
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
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[NASA-CASE-NPO-13652-2] c 44 N79-24431

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
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[NASA-TM-76884] c 24 N85-25436
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241
Silicon carbide fiber reinforced strontium aluminosilicate *glass-ceramic matrix composite*
[NASA-CASE-LEW-15263-1] c 24 N93-11543
Numerical control fabrication technique for dynamic composite models
[NASA-CASE-LAR-14004-1] c 63 N93-19024
Method and apparatus for three dimensional braiding
[NASA-CASE-LAR-14047-1] c 31 N93-19038
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

FABRICS
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Adjustable high emittance gap filler --- reentry shielding *for space shuttle vehicles*
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

FABRY-PEROT INTERFEROMETERS
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

FACSIMILE COMMUNICATION
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

FACTORIAL DESIGN
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

FAIL-SAFE SYSTEMS
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

FAILURE
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

FAILURE ANALYSIS
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018

FAILURE MODES
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

FAIRINGS
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

FALLING SPHERES
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

FAR FIELDS
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

FAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

FAR ULTRAVIOLET RADIATION
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Method and apparatus for producing a thermal atomic oxygen beam
[NASA-CASE-LEW-15614-1] c 72 N93-19026

FARADAY EFFECT
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

FAST FOURIER TRANSFORMATIONS
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

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Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
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[NASA-CASE-LAR-13009-2] c 37 N87-22976
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[NASA-CASE-MSC-21354-1] c 37 N88-24969
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[NASA-CASE-MSC-21436-1] c 37 N90-21390
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[NASA-CASE-MSC-21504-1] c 18 N91-21221
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354
J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051
Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712

FATIGUE (MATERIALS)
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

FATIGUE LIFE
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490

High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493

FATIGUE TESTING MACHINES
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

FATIGUE TESTS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175

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Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

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[NASA-CASE-MSC-21436-1] c 37 N90-21390
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052

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Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724

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Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

FEEDBACK
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254

FEEDBACK AMPLIFIERS
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

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Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

FEEDBACK CONTROL
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099
Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058
Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

FEEDBACK FREQUENCY MODULATION
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

FEEDERS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

FEEDFORWARD CONTROL
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

FEET (ANATOMY)
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

FELTS
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

FEMALES
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

FERMENTATION
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

FERRITES
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

FERROELECTRICITY
Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277

FERROFLUIDS
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

FERROMAGNETIC FILMS
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704

FERROMAGNETIC MATERIALS
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Method of characterizing residual stress in ferromagnetic materials using a pulse histogram of acoustic emission signals
[NASA-CASE-LAR-14239-1] c 26 N93-14705

FERROMAGNETISM
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

FERTILIZERS
Slow-release fertilizer
[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054

FETUSES
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
FIBER COMPOSITES
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 *N89-29538*
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214
Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543
Method and apparatus for three dimensional braiding
[NASA-CASE-LAR-14047-1] c 31 N93-19038
FIBER OPTICS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058
Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052
Optical fiber strain sensor with improved linearity
[NASA-CASE-LAR-14857-1-SB] c 74 N93-19374
FIBER RELEASE
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
FIBERS
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
FIELD COILS
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081
FIELD EFFECT TRANSISTORS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
FIELD EMISSION
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
FIELD OF VIEW
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
FILAMENT WINDING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
FILAMENTS
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
FILLERS
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
FILLING
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
FILM COOLING
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

FILM THICKNESS
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

FILMS
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

FILTERS
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FILTRATION
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FINGERS
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026

FINS
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

FIRE EXTINGUISHERS
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

FIRE PREVENTION
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

FIREPROOFING
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

FIRES
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

FIRING (IGNITING)
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

FITTING
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051

FITTINGS
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

FIXED WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

FIXTURES
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354
Work attachment mechanism/work attachment fixture
[NASA-CASE-GSC-13430-1] c 37 N93-14712

FLAME PROBES
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

FLAME RETARDANTS
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

FLAME SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

FLAME TEMPERATURE
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

FLAMES
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

FLAMMABILITY
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

FLANGES
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244
Saddle clamp assembly
[NASA-CASE-MFS-28701-1] c 37 N93-17057

FLAPS (CONTROL SURFACES)
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

FLARED BODIES
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389

FLASH LAMPS
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

FLAT CONDUCTORS
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226

Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

FLAT PLATES
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

FLEXIBILITY
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494

FLEXIBLE BODIES
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for *conducting fluids in high pressure systems*
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14418-1] c 32 N92-31257
Flexible robotic arm
[NASA-CASE-GSC-13161-1] c 37 N92-33634

FLEXIBLE WINGS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038

FLEXING
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

FLIGHT
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

FLIGHT ALTITUDE
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

FLIGHT CLOTHING
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

FLIGHT CONTROL
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

FLIGHT CREWS
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

FLIGHT INSTRUMENTS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

FLIGHT PATHS
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

FLIGHT RECORDERS
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FLIGHT SAFETY
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision *between aircraft*
[NASA-CASE-LAR-10717-1] c 21 N73-30641

FLIGHT SIMULATION
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

FLIGHT SIMULATORS
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

FLIGHT TESTS
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLOAT ZONES
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

FLOATING
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

FLOTATION
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW CHARACTERISTICS
Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157

Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

FLOW DIRECTION INDICATORS
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTORTION
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW DISTRIBUTION
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

FLOW MEASUREMENT
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390
Method of remotely characterizing thermal properties of a sample
[NASA-CASE-LAR-13508-3-CU] c 09 N93-11057
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-2] c 35 N93-17626
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N93-18275
Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

FLOW REGULATORS
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504

FLOW RESISTANCE
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

FLOW STABILITY
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

FLOW VELOCITY
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172
Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

FLOW VISUALIZATION
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312
A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317

FLOWMETERS
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

FLUID AMPLIFIERS
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

FLUID DYNAMICS
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

FLUID FILLED SHELLS
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

FLUID FILMS
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

FLUID FILTERS
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

FLUID FLOW
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312

FLUID INJECTION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MANAGEMENT
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

FLUID MECHANICS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909

FLUID ROTOR GYROSCOPES
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

FLUID TRANSMISSION LINES
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752

FLUIDIZED BED PROCESSORS
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

FLUIDS
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
Fluid separator
[NASA-CASE-MFS-28658-1] c 34 N93-17039

FLUORESCENCE
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029

FLUORIDES
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

FLUORINATION
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

FLUORINE
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

FLUORINE COMPOUNDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

FLUORINE ORGANIC COMPOUNDS
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220

FLUORO COMPOUNDS
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

FLUOROCARBONS
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

FLUOROHYDROCARBONS
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

FLUOROPOLYMERS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

FLUTTER
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

FLUTTER ANALYSIS
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

FLUX (RATE)
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

FLUX DENSITY
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

FLUXES
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

FLYING PLATFORMS
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

FLYWHEELS
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

FOAMS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
Protective helmet assembly
[NASA-CASE-MSC-21842-1] c 54 N93-17088

FOCAL PLANE DEVICES
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104
INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056

FOCI
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

FOCUSING
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616

RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

FOG
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

FOILS (MATERIALS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

FOLDING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180

FOLDING STRUCTURES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
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[NASA-CASE-MSC-20162-1] c 37 N87-17036
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

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Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

FOOTPRINTS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

FORCE
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

FORCE DISTRIBUTION
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927

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Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

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Prosthetic helping hand
[NASA-CASE-MFS-28430-1] c 54 N92-24044

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[NASA-CASE-LAR-12326-1] c 02 N81-14968
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

FORMALDEHYDE
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
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[NASA-CASE-LEW-11694-2] c 37 N76-14461
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[NASA-CASE-NPO-13802-1] c 71 N78-10837
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

FOSSIL FUELS
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

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Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

FOURIER TRANSFORMATION
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

FRACTIONATION
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

FRACTURE MECHANICS
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

FRACTURE STRENGTH
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

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Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616

FRAMING CAMERAS
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

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Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

FREEZING
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

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Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882

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[NASA-CASE-MFS-14322] c 08 N71-18692

Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

FREQUENCY CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY CONVERTERS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

FREQUENCY DISCRIMINATORS
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

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Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

FREQUENCY DIVIDERS
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

FREQUENCY DIVISION MULTIPLEXING
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

FREQUENCY MEASUREMENT
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

FREQUENCY MODULATION
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

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Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464

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Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

FREQUENCY RESPONSE
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951

FREQUENCY SCANNING
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

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Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

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Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

FREQUENCY STABILITY
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY STANDARDS
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY SYNCHRONIZATION
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

FREQUENCY SYNTHESIZERS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

FRICTION
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N92-29138

FRICTION DRAG
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

FRICTION FACTOR
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173

FRICTION MEASUREMENT
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N93-18275

FRICTION REDUCTION
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

FRICTIONLESS ENVIRONMENTS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223

FROST
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

FROZEN FOODS
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

FRUSTUMS
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726

FUEL CAPSULES
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

FUEL CELL POWER PLANTS
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

FUEL CELLS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

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Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL CONSUMPTION
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122

FUEL CONTROL
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[NASA-CASE-XMF-00185] c 21 N70-34539
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Electrical servo actuator bracket --- fuel control valves on jet engines
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FUEL FLOW
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

FUEL FLOW REGULATORS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL GAGES
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

FUEL INJECTION
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

FUEL OILS
Oil cooling system for a gas turbine engine
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FUEL PUMPS
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058

FUEL SYSTEMS
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

FUEL TANK PRESSURIZATION
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

FUEL TANKS
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495

FUEL VALVES
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
High-temperature, high-pressure oxygen metering valve
[NASA-CASE-MSC-21823-1] c 37 N93-14843

FUEL-AIR RATIO
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FUELS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

FUNCTION GENERATORS
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

FURLABLE ANTENNAS
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

FURNACES
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175

FUSELAGES
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

FUSION (MELTING)
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

FUSION WELDING
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

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Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

GALILEO PROJECT
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

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Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

GALLIUM ARSENIDES
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022

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Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

GALVANIC SKIN RESPONSE
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

GAMMA RAY SPECTROMETERS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

GAMMA RAYS
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

GANTRY CRANES
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

GAPS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

GARMENTS
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

GAS ANALYSIS
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

GAS BAGS
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

GAS BEARINGS
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

GAS CHROMATOGRAPHY
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

GAS COMPOSITION
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
GAS COOLED REACTORS
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
GAS COOLING
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
GAS DENSITY
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421
GAS DETECTORS
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption *spectra monitoring* --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
GAS DISCHARGE TUBES
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
GAS DISCHARGES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
GAS EVOLUTION
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
GAS EXPANSION
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
GAS FLOW
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Compact hydrogenator
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[NASA-CASE-MSC-21384-2] c 35 N93-17626
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GAS TUBES
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GAS TURBINE ENGINES
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[NASA-CASE-LEW-11326-1] c 23 N73-30665
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[NASA-CASE-LEW-12917-1] c 07 N78-18067
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[NASA-CASE-LEW-12785-1] c 37 N78-24545
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[NASA-CASE-LEW-12938-1] c 07 N82-32366
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[NASA-CASE-LEW-14586-1] c 07 N83-31603
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
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[NASA-CASE-LEW-13654-1] c 07 N84-22560
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[NASA-CASE-LEW-14035-1] c 07 N84-24577
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[NASA-CASE-LEW-13506-1] c 37 N85-33490
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[NASA-CASE-LEW-13670-1] c 37 N86-19606
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[NASA-CASE-NPO-14130-1] c 34 N79-20335
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[NASA-CASE-XGS-00587] c 15 N70-35087
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[NASA-CASE-XLE-00815] c 15 N70-35407
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[NASA-CASE-XAC-01158] c 15 N71-23051
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
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GAS WELDING
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
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[NASA-CASE-MSC-19095-1] c 37 N75-19683

GAS-LIQUID INTERACTIONS
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[NASA-CASE-LAR-11110-1] c 34 N75-26282

GAS-METAL INTERACTIONS
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[NASA-CASE-LEW-10250-1] c 22 N71-28759
Gas diffusion liquid storage bag and method of use for storing blood
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[NASA-CASE-XMS-01295-1] c 37 N79-21345
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[NASA-CASE-MSC-21253-1] c 31 N90-20254
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[NASA-CASE-MSC-21059-2] c 35 N91-15511
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
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[NASA-CASE-XGS-02441] c 15 N70-41629
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
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[NASA-CASE-ARC-11402-1] c 27 N84-22744
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[NASA-CASE-XLA-07497] c 09 N71-12514
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[NASA-CASE-XLA-07391] c 12 N71-17579
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[NASA-CASE-XGS-02440] c 08 N71-19432

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[NASA-CASE-XMS-09352] c 09 N71-23316
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[NASA-CASE-GSC-11839-2] c 60 N78-10709
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Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
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[NASA-CASE-MFS-25208-1] c 33 N83-10345
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[NASA-CASE-LAR-12772-1] c 33 N83-16626
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[NASA-CASE-NPO-16045-1] c 76 N87-13313
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[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

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[NASA-CASE-LAR-10686] c 14 N71-28935

GAW-1 AIRFOIL
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

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Wabble gear drive mechanism --- for aerospace environments
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[NASA-CASE-MFS-14772] c 15 N71-17692
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[NASA-CASE-XGS-04227] c 15 N71-21744
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[NASA-CASE-MSC-19514-1] c 37 N79-20377
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[NASA-CASE-NPO-14220-1] c 37 N81-14318
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[NASA-CASE-ARC-11325-1] c 37 N82-22496
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
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[NASA-CASE-XNP-00920] c 15 N71-15906
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[NASA-CASE-MFS-21424-1] c 34 N74-27730
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[NASA-CASE-LAR-13014-1] c 09 N85-21178
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[NASA-CASE-MFS-29149-1] c 33 N90-19492
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[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

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[NASA-CASE-MFS-28234-1] c 52 N90-20616

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[NASA-CASE-MFS-23274-1] c 33 N78-13320
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[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

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[NASA-CASE-GSC-10306-1] c 15 N71-24694
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
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[NASA-CASE-GSC-10556-1] c 31 N71-26537
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
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[NASA-CASE-MSC-21918-1] c 37 N92-30316

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[NASA-CASE-XLE-10326-2] c 15 N72-29488
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[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
Sintering silicon nitride
[NASA-CASE-LEW-15489-1] c 27 N93-17062

GLASS COATINGS
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

GLASS TRANSITION TEMPERATURE
Polyimides containing the cyclobutene-3,4-dione moiety
[NASA-CASE-LAR-14753-1] c 27 N92-30313

GLASSWARE
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE LANDINGS
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

GLIDE PATHS
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

GLOBES
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

GLOW DISCHARGES
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRADIENTS
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239

GRANULAR MATERIALS
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

GRAPHITE-EPOXY COMPOSITES
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

GRAPHITIZATION
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

GRATINGS (SPECTRA)
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186

GRAVIMETERS
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790

GRAVITATIONAL FIELDS
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231

GRAVITY GRADIENT SATELLITES
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRAZING INCIDENCE TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GREENHOUSES
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

GRINDING (MATERIAL REMOVAL)
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508

GROUND EFFECT (COMMUNICATIONS)
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

GROUND EFFECT MACHINES
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672

GROUND HANDLING
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

GROUND STATE
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

GROUND STATIONS
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

GROUND SUPPORT EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

GROUND WATER
Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

GROUND-AIR-GROUND COMMUNICATION
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

GUANIDINES
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461

GUARDS (SHIELDS)
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GUIDANCE (MOTION)
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

GUIDANCE SENSORS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS
Self-obturating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GUNS (ORDNANCE)
Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196

GYNECOLOGY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or acceleromeler at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

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HABITATS
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
Pressure wall patch
[NASA-CASE-MFS-28724-1] c 18 N93-17061

HAFNIUM
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

HALL EFFECT
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N93-14870

HANDLES
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Extra-vehicular activity translation tool
[NASA-CASE-MSC-21955-1] c 37 N93-14842

HANDLING EQUIPMENT
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARDNESS
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

HARMONIC GENERATIONS
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

HARMONIC GENERATORS
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

HAZARDS
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

HEAD-UP DISPLAYS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

HEART FUNCTION
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016

HEAT
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Fuel delivery system including heat exchanger means
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[NASA-CASE-ARC-10807-1] c 05 N77-17029
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[NASA-CASE-XLE-08511-2] c 18 N71-16105
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
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Method and apparatus for producing a plasma Patent
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Feed system for an ion thruster
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Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
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[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
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[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099
Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N93-15151
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High-temperature, high-pressure spherical segment valve Patent
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High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
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[NASA-CASE-MFS-23923-1] c 35 N81-19426
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
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Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Vacuum evaporator with electromagnetic ion steering *Patent*
[NASA-CASE-NPO-10331] c 09 N71-26701
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
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[NASA-CASE-XMF-07488] c 11 N71-18773
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Electrode and insulator with shielded dielectric junction
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[NASA-CASE-XLE-02008] c 09 N71-21583
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[NASA-CASE-LAR-13490-1] c 18 N91-27199
HISTOGRAMS
Data compression system
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[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052
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[NASA-CASE-MFS-11132] c 15 N71-17649
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[NASA-CASE-LAR-12881-1] c 27 N84-14323
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[NASA-CASE-LEW-13758-1] c 24 N84-27829
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[NASA-CASE-ARC-11422-1] c 35 N86-20751
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[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
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[NASA-CASE-GSC-13261-1] c 37 N92-29138
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[NASA-CASE-MSC-21967-1] c 37 N92-30026
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[NASA-CASE-MFS-22649-1] c 37 N75-25186
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[NASA-CASE-MFS-25405-1] c 35 N84-22929
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[NASA-CASE-MFS-28242-1] c 35 N89-26202
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[NASA-CASE-ERC-10019] c 16 N71-15551
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Recording and reconstructing focused image holograms *Patent*
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
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[NASA-CASE-MFS-21455-1] c 35 N74-15146
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[NASA-CASE-MFS-21087-1] c 35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
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[NASA-CASE-MSC-14472-1] c 43 N77-10584
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
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[NASA-CASE-ERC-10324] c 07 N72-25173
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[NASA-CASE-XLA-03492] c 15 N71-22713
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
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[NASA-CASE-XMS-01108] c 15 N69-24322
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
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[NASA-CASE-XLE-00703] c 15 N71-15967
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
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[NASA-CASE-XMF-05046] c 33 N71-28892
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
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[NASA-CASE-MSC-12357] c 15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
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[NASA-CASE-LAR-10073-1] c 37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
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[NASA-CASE-LAR-11898-2] c 24 N78-17149
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[NASA-CASE-ARC-11040-1] c 24 N79-16915
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[NASA-CASE-ARC-11652-1] c 27 N87-23737
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Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026
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Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
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[NASA-CASE-LAR-13798-1] c 32 N89-25363
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[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
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Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
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[NASA-CASE-XGS-00809] c 21 N70-35427
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
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[NASA-CASE-LAR-10726-1] c 14 N73-20475
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[NASA-CASE-XLA-00241] c 31 N70-37986
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Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
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Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
HOSES
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
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Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
HOT CORROSION
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

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[NASA-CASE-LEW-14719-1] c 24 N90-23493
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[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
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Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543
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Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
HOT-FILM ANEMOMETERS
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
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Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
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[NASA-CASE-ARC-10900-1] c 35 N77-24454
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Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
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[NASA-CASE-MSC-12168-1] c 09 N71-18600
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[NASA-CASE-MSC-12324-1] c 05 N72-22093
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
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[NASA-CASE-GSC-13376-1] c 37 N92-21728
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
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[NASA-CASE-MFS-29766-1] c 33 N92-33030
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[NASA-CASE-GSC-13306-1] c 52 N92-33032
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[NASA-CASE-MSC-12111-1] c 02 N71-11039
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[NASA-CASE-MFS-28161-1] c 37 N87-18817
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[NASA-CASE-LAR-12864-1] c 37 N85-30336
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[NASA-CASE-LAR-11059-1] c 76 N75-12810
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[NASA-CASE-XLA-00229] c 12 N70-33305
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[NASA-CASE-ARC-10100-1] c 05 N71-24738
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[NASA-CASE-XKS-07814] c 15 N71-27067
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[NASA-CASE-LAR-13901-2] c 52 N92-11621
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Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
HUMAN FACTORS ENGINEERING
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
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[NASA-CASE-ARC-11100-1] c 54 N78-31736
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
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[NASA-CASE-XMS-03694-1] c 54 N82-29002
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
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[NASA-CASE-ARC-11543-1] c 54 N86-28620
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[NASA-CASE-KSC-11322-1] c 54 N89-29953
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[NASA-CASE-GSC-13348-2] c 52 N93-14708
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[NASA-CASE-MFS-28610-1] c 54 N93-17045
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[NASA-CASE-KSC-10278] c 05 N72-16015
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[NASA-CASE-MFS-28723-1] c 52 N93-17058
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[NASA-CASE-MSC-13604-1] c 05 N73-13114
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[NASA-CASE-ARC-11426-2] c 52 N89-16256
HUMAN WASTES
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
HUMIDITY
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
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Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
HYBRID CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
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Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
HYBRID PROPELLANTS
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
HYDRAULIC CONTROL
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
HYDRAULIC EQUIPMENT
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
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[NASA-CASE-NPO-14140-1] c 43 N81-26509
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
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[NASA-CASE-SSC-00008-1] c 37 N91-13733
HYDRAULIC FLUIDS
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
HYDRAULIC JETS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
HYDRAZIDES
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
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Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
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Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764

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Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
HYDRIDES
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
HYDROCARBON COMBUSTION
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
HYDROCARBON FUEL PRODUCTION
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
HYDROCARBON FUELS
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Dual-fuel, dual-mode rocket engine
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[NASA-CASE-LAR-12018-1] c 20 N78-24275
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[NASA-CASE-NPO-13828-1] c 37 N79-11405
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[NASA-CASE-NPO-15560-1] c 33 N85-21491
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[NASA-CASE-XLA-00327] c 25 N71-29184
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Wedge immersed thermistor bolometers
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[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
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[NASA-CASE-MFS-21672-1] c 74 N76-19935
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[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
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Large area projection liquid-crystal video display system with inherent grid pattern optically removed
[NASA-CASE-NPO-16932-2-CU] c 74 N93-13711
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[NASA-CASE-XLA-00062] c 14 N70-33254
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[NASA-CASE-HQN-10683] c 14 N71-34389
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[NASA-CASE-GSC-12010-1] c 74 N78-18905
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[NASA-CASE-LAR-13989-1] c 35 N91-13694
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[NASA-CASE-MSC-21481-1] c 60 N91-13890
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[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
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[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
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[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276
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[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284
IMAGE RECONSTRUCTION
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
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IMAGE RESOLUTION
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[NASA-CASE-NPO-14813-1] c 74 N82-24072
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[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
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[NASA-CASE-LAR-14779-1] c 74 N92-29951
IMAGE ROTATION
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
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Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
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[NASA-CASE-MSC-14683-1] c 74 N77-18893
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[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
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[NASA-CASE-ARC-10448-3] c 35 N77-14408
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[NASA-CASE-ARC-10903-1] c 09 N78-18083
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
System and method for obtaining wide screen Schlieren *photographs*
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Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffractoid grating configuration for X-ray and ultraviolet focusing
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[NASA-CASE-NPO-14219-1] c 74 N81-17886
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[NASA-CASE-NPO-14525-2] c 32 N83-31918
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Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
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[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
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[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012
Method of remotely characterizing thermal properties of a sample
[NASA-CASE-LAR-13508-3-CU] c 09 N93-11057

IMIDES
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
N-(3-ethynylphenyl)*maleimide*
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

IMINES
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

IMMOBILIZATION
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

IMPACT
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
System for determining the angle of impact of an object on a structure
[NASA-CASE-LAR-14817-1] c 35 N93-17041

IMPACT ACCELERATION
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

IMPACT DAMAGE
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

IMPACT LOADS
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

IMPACT RESISTANCE
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Protective helmet assembly
[NASA-CASE-MSC-21842-1] c 54 N93-17088

IMPACT STRENGTH
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

IMPACT TESTING MACHINES
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TESTS
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TOLERANCES
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

IMPEDANCE
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

IMPEDANCE MATCHING
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

IMPEDANCE MEASUREMENT
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

IMPELLERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

IMPLANTATION
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

IMPLANTED ELECTRODES (BIOLOGY)
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

IMPLOSIONS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

IMPREGNATING
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

IMPULSE GENERATORS
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

IMPURITIES
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

IN-FLIGHT MONITORING
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571

INCLINATION
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCLUSIONS
Method and apparatus for thermographically and quantitatively analyzing a structure for disbonds and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829

INCOHERENT SCATTERING
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

INDICATING INSTRUMENTS
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for the determination of the existance or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790

INDIUM ALLOYS
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

INDIUM COMPOUNDS
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

INDUCED DRAG
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411

INDUCTANCE
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

INDUCTION
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

INDUCTION HEATING
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Induction boiler
[NASA-CASE-MFS-28634-1] c 37 N92-24055
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14418-1] c 32 N92-31257

INDUCTION MOTORS
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

INDUSTRIAL PLANTS
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Hazardous materials emergency response mobile robot
[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

INERT ATMOSPHERE
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

INERTIAL PLATFORMS
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

INFLATABLE STRUCTURES
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

INFORMATION RETRIEVAL
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFORMATION SYSTEMS
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFORMATION THEORY
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

INFRARED DETECTORS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056
Long wavelength infrared detector
[NASA-CASE-NPO-17543-2-CU] c 35 N93-19387

INFRARED IMAGERY
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312

INFRARED INSTRUMENTS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED PHOTOMETRY
Tailorable infrared sensing device with strain layer *superlattice structure*
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

INFRARED RADIATION
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312

INFRARED REFLECTION
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

INFRARED SPECTROMETERS
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

INJECTION
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

INKS
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

INSPECTION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

INSTALLING

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Automatic system for installation and replacement of Space Station components
[NASA-CASE-LEW-14906-1] c 37 N93-12203

INSTRUMENT COMPENSATION

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION

Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

INSULATORS

Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

INTAKE SYSTEMS

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

INTEGERS

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

INTEGRATED CIRCUITS

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542

INTEGRATED OPTICS

Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551

INTEGRATORS

Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INTEGRITY

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

INTERCALATION

Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208

INTERFACES

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554
Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541

INTERFACIAL TENSION

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

INTERFERENCE FIT
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
INTERFEROMETERS
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058
An interferometer having fused optical fibers, and *apparatus and method using the interferometer*
[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052
INTERFEROMETRY
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133
INTERLAYERS
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
INTERMEDIATE FREQUENCY AMPLIFIERS
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
INTERMETALLICS
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
INTERNAL COMBUSTION ENGINES
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
INTERNAL PRESSURE
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
INTERPLANETARY SPACE
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
INTERPLANETARY SPACECRAFT
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
INTERPLANETARY TRAJECTORIES
Means for visually indicating flight paths of vehicles *between the Earth, Venus, and Mercury* Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
INTERPOLATION
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039
INTERPROCESSOR COMMUNICATION
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
INTERVALS
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
INTRACRANIAL PRESSURE
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
INTRAOCULAR PRESSURE
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and *equipment*
[NASA-CASE-LEW-12723-1] c 52 N80-18690
INTRAVEHICULAR ACTIVITY
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
INTRAVENOUS PROCEDURES
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628
INTRUSION
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
INVENTIONS
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[NASA-CASE-NPO-14163-1] c 33 N81-14220
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[NASA-CASE-MFS-25215-1] c 33 N83-31953
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[NASA-CASE-MFS-25209-1] c 33 N83-35227
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[NASA-CASE-NPO-10373] c 03 N71-18698
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
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[NASA-CASE-LEW-15360-1] c 25 N92-34206
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[NASA-CASE-ARC-11241-1] c 25 N81-14016
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[NASA-CASE-LEW-10518-1] c 24 N72-33681
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
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[NASA-CASE-LEW-11390-3] c 25 N76-29379
ION ACCELERATORS
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Ion beam accelerator system
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[NASA-CASE-LEW-10689-1] c 28 N71-26173
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[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
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[NASA-CASE-LEW-14080-1] c 31 N85-20153
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[NASA-CASE-LEW-13837-2] c 24 N85-21267
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[NASA-CASE-LEW-14037-1] c 20 N87-16875
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

ION CHARGE

Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

ION CONCENTRATION

Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

ION CURRENTS

System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ION CYCLOTRON RADIATION

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

ION DENSITY (CONCENTRATION)

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES

Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thrustor
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ION EXCHANGE MEMBRANE ELECTROLYTES

Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1-SB] c 51 N93-18351

ION EXCHANGING

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

ION EXTRACTION

Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

ION IMPLANTATION

Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

ION IRRADIATION

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

ION MOTION

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION

Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION TRAPS (INSTRUMENTATION)

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

IONIZATION CHAMBERS

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

IONIZATION CROSS SECTIONS

Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

IONIZATION GAGES

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
IONIZED GASES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030
IONIZERS
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
IONIZING RADIATION
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
IONOSPHERIC DISTURBANCES
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
IONOSPHERIC ELECTRON DENSITY
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
IONOSPHERIC SOUNDING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
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IONS
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
IRIDIUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
IRISES (MECHANICAL APERTURES)
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
IRON
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
IRON ALLOYS
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
IRON CHLORIDES
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
IRON COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
IRRADIATION
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015
IRRIGATION
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
ISOLATION
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
ISOLATORS
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
ISOPROPYL ALCOHOL
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
ISOPROPYL COMPOUNDS
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676
ISOTHERMAL LAYERS
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
ISOTHERMAL PROCESSES
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
ISOTOPE SEPARATION
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
ITERATION
Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276

J

JACOBI MATRIX METHOD
Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553
JET AIRCRAFT
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
JET AIRCRAFT NOISE
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
JET AMPLIFIERS
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
JET BLAST EFFECTS
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
JET CONTROL
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
JET ENGINES
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
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[NASA-CASE-XMS-09636] c 05 N71-12344
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LASER ANNEALING
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Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
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[NASA-CASE-MFS-28060-1] c 76 N87-25862
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[NASA-CASE-LAR-13508-3-CU] c 09 N93-11057
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Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
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[NASA-CASE-ARC-10970-1] c 36 N77-25501
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[NASA-CASE-LAR-11711-1] c 74 N78-17866
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[NASA-CASE-LAR-11859-1] c 35 N79-14349
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[NASA-CASE-LAR-12176-1] c 36 N80-16321
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
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[NASA-CASE-LAR-12328-1] c 36 N82-32712
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[NASA-CASE-LAR-12785-1] c 37 N84-16561
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[NASA-CASE-LAR-12968-1] c 60 N86-21154
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
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[NASA-CASE-LAR-13268-1] c 35 N87-14669
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
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[NASA-CASE-ARC-11634-1] c 36 N88-14350
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
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LASER DRILLING
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LASER FUSION
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[NASA-CASE-LEW-13269-1] c 18 N83-20996

LASER GUIDANCE
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712

LASER GYROSCOPES
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LASER HEATING
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[NASA-CASE-NPO-13308-1] c 36 N75-30524
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[NASA-CASE-MFS-25050-1] c 71 N81-15767

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[NASA-CASE-ARC-11354-1] c 74 N83-21949

LASER MATERIALS
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

LASER MODE LOCKING
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Method and circuit for controlling the evolution time interval of a laser output pulse
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LASER MODES
Optical pump and driver system for lasers
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[NASA-CASE-NPO-13175-1] c 36 N75-31427

LASER OUTPUTS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
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[NASA-CASE-MFS-20386] c 21 N71-19212
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
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[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
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[NASA-CASE-MFS-21244-1] c 36 N75-15028
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[NASA-CASE-GSC-11746-1] c 36 N75-19654
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Method and apparatus for Doppler frequency modulation *of radiation*
[NASA-CASE-NPO-14524-1] c 32 N80-24510
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
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[NASA-CASE-LEW-13526-1] c 36 N84-22944
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
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[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
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[NASA-CASE-LEW-14795-1] c 74 N91-21871
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557
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[NASA-CASE-GSC-13386-1] c 38 N92-29154
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788
Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N93-14703
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N93-18277
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

LASER PLASMAS
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

LASER POWER BEAMING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388

LASER PUMPING
Laser apparatus
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Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

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Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
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[NASA-CASE-MSC-20867-1] c 36 N88-24958

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Method and apparatus for aligning a laser beam projector Patent
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LASER SPECTROMETERS
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

LASER SPECTROSCOPY
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[NASA-CASE-NPO-15102-1] c 25 N81-25159

LASER WINDOWS
Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866

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Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
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[NASA-CASE-GSC-11262-1] c 36 N74-21091
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154

LASING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Method and apparatus for detection and control of prelasing in a Q-switched laser
[NASA-CASE-LAR-14790-1] c 36 N93-19373

LATCHES
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N92-23378
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N93-13417
Retractable tool bit having slider type catch mechanism
[NASA-CASE-GSC-13358-1] c 37 N93-14710
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N93-18286

LATERAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LATERAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

LAUNCH ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

LAUNCHERS
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

LAUNCHING PADS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

LAY-UP
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465

LEAD (METAL)
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

LEAD TELLURIDES
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

LEAD ZIRCONATE TITANATES
Enhanced fatigue and retention in ferroelectric thin film memory capacitors by post-top electrode anneal treatment
[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277

LEADING EDGE FLAPS
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LEADING EDGES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Boundary layer relaminarization device
[NASA-CASE-LAR-14470-1] c 02 N93-11876

LEAKAGE
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

LEAST SQUARES METHOD
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276

LEG (ANATOMY)
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

LENGTH
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

LENSES
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755
Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027
Large area projection liquid-crystal video display system with inherent grid pattern optically removed
[NASA-CASE-NPO-16932-2-CU] c 74 N93-13711

LENTICULAR BODIES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

LEVEL (HORIZONTAL)
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVERS
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N93-13417
Portable seat lift
[NASA-CASE-MFS-28610-1] c 54 N93-17045

LEVITATION
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099

LEVITATION MELTING
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LIFE (DURABILITY)
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

LIFE DETECTORS
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

LIFE SUPPORT SYSTEMS
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

LIFT
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFT DEVICES
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFT DRAG RATIO
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

LIFTING BODIES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFTING REENTRY VEHICLES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

LIFTING ROTORS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

LIGANDS
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

LIGHT (VISIBLE RADIATION)
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
LIGHT AIRCRAFT
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
LIGHT BEAMS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
LIGHT EMISSION
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
LIGHT EMITTING DIODES
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
LIGHT GAS GUNS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
LIGHT MODULATION
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
Optical inner product neural associative memory
[NASA-CASE-NPO-18491-1-CU] c 60 N92-23546
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
LIGHT SCATTERING
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028
LIGHT SCATTERING METERS
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
LIGHT SOURCES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Bright light delivery system
[NASA-CASE-MFS-28723-1] c 52 N93-17058
LIGHT TRANSMISSION
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027
LIGHT VALVES
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
LIGHTING EQUIPMENT
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032
LIGHTNING
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-2-CU] c 47 N93-10108
LIMBS (ANATOMY)
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
LIMITER CIRCUITS
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056
LINE OF SIGHT
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
LINE SPECTRA
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
LINEAR ACCELERATORS
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
LINEAR ARRAYS
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
LINEAR CIRCUITS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
LINEAR INTEGRATED CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
LINEAR POLARIZATION
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
LINEAR PROGRAMMING
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
LINEAR RECEIVERS
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
LINEAR SYSTEMS
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
LINEARITY
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

LININGS
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
Consecutive plate acoustic suppressor apparatus and methods
[NASA-CASE-LEW-15430-1] c 71 N93-17051

LINKAGES
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Quick acting gimbal joint
[NASA-CASE-MSC-21918-1] c 37 N92-30316

LIQUEFACTION
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION
Constant-output atomizer --- inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

LIQUID CHROMATOGRAPHY
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

LIQUID COOLING
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

LIQUID CRYSTALS
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Large area projection liquid-crystal video display system with inherent grid pattern optically removed
[NASA-CASE-NPO-16932-2-CU] c 74 N93-13711

LIQUID FILLED SHELLS
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

LIQUID FLOW
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

LIQUID HELIUM
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

LIQUID HYDROGEN
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

LIQUID INJECTION
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

LIQUID LASERS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500

LIQUID METALS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

LIQUID NITROGEN
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

LIQUID PHASES
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

LIQUID PROPELLANT ROCKET ENGINES
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275

Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

LIQUID ROCKET PROPELLANTS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122

LIQUID SLOSHING
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

LITHIUM
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753
Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N93-17278

LITHIUM ALLOYS
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

LITHIUM COMPOUNDS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LITHIUM OXIDES
Overcharge and overdischarge protection of ambient temperature secondary lithium cells
[NASA-CASE-NPO-18343-1-CU] c 33 N93-11456

LOAD DISTRIBUTION (FORCES)
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
Radial spline assembly for antifriction bearings
[NASA-CASE-MFS-28629-1] c 37 N93-17084

LOAD TESTING MACHINES
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099
Method and apparatus for gripping test specimens
[NASA-CASE-LEW-15345-1] c 37 N93-12327

LOAD TESTS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

LOADING OPERATIONS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

LOCAL AREA NETWORKS
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

LOCATES SYSTEM
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

LOCKING
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092
Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150

LOCKS
Valve lock
[NASA-CASE-MFS-29764-1] c 37 N93-19049

LOCKS (FASTENERS)
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180

LOCOMOTION
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

LOGARITHMIC RECEIVERS
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

LOGIC PROGRAMMING
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

LONG WAVE RADIATION
INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056

LONGERONS
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

LONGITUDINAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LONGITUDINAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LOOK ANGLES (ELECTRONICS)
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

LOOP ANTENNAS
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

LOOPS
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

LOUDNESS
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

LOUVERS
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

LOW ASPECT RATIO
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

LOW CONDUCTIVITY
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

LOW COST
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
Large area projection liquid-crystal video display system with inherent grid pattern optically removed
[NASA-CASE-NPO-16932-2-CU] c 74 N93-13711

LOW CURRENTS
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

LOW DENSITY MATERIALS
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

LOW FREQUENCIES
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

LOW GRAVITY MANUFACTURING
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus ad method for quiescent containerless *processing of high temperature metals and alloys in low* gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398

LOW MOLECULAR WEIGHTS
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 *N71-28807*

LOW NOISE
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

LOW PASS FILTERS
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
Position-error-based force reflection and compliance control
[NASA-CASE-NPO-18668-1-CU] c 37 N92-29765
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

LOW PRESSURE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 *N92-34214*

LOW SPEED
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Helicopter low-speed yaw control
[NASA-CASE-LAR-14219-1] c 08 N92-30025

LOW TEMPERATURE
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614

LOW TEMPERATURE ENVIRONMENTS
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

LOW TEMPERATURE TESTS
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

LOW THRUST
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LOW VACUUM
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

LOW VOLTAGE
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

LOWER BODY NEGATIVE PRESSURE
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

LUBRICANTS
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 *N74-21058*
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

LUBRICATING OILS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

LUBRICATION
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423

LUBRICATION SYSTEMS
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

LUGS
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

LUMINAIRES
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

LUMINANCE
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

LUMINESCENCE
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

LUMINOSITY
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

LUMINOUS INTENSITY
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Optical fiber strain sensor with improved linearity
[NASA-CASE-LAR-14857-1-SB] c 74 N93-19374

LUMPING
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

LUNAR BASES
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

LUNAR COMMUNICATION
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR COMPOSITION
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

LUNAR EXPLORATION
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR GRAVITATION
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

LUNAR GRAVITY SIMULATOR
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LUNAR LANDING
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

LUNAR LOGISTICS
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

LUNAR ROCKS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

LUNAR ROVING VEHICLES
Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388

LUNAR SOIL
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

LUNAR SURFACE
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

LUNAR SURFACE VEHICLES
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
LUNGS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
MACHINE LEARNING
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
The adaptive neuron model: An architecture for the rapid learning of nonlinear topological transformations
[NASA-CASE-NPO-18579-1-CU] c 63 N93-11174
MACHINE TOOLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
MACHINERY
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
MACHINING
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
MACROMOLECULES
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
MAGNESIUM
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
MAGNESIUM ALLOYS
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
MAGNESIUM OXIDES
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041
MAGNET COILS
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
MAGNETIC AMPLIFIERS
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
MAGNETIC BEARINGS
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099
MAGNETIC CHARGE DENSITY
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
MAGNETIC CIRCUITS
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
MAGNETIC COILS
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
MAGNETIC CONTROL
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
MAGNETIC CORES
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
MAGNETIC DIPOLES
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
MAGNETIC DISKS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
MAGNETIC FIELD CONFIGURATIONS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
MAGNETIC FIELDS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081
Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC FILMS
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC FORMING
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

MAGNETIC LENSES
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

MAGNETIC MEASUREMENT
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC PERMEABILITY
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

MAGNETIC POLES
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PROPERTIES
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC PUMPING
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

MAGNETIC SIGNALS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

MAGNETIC SWITCHING
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

MAGNETIC TAPE TRANSPORTS
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

MAGNETIC TRANSDUCERS
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

MAGNETIZATION
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

MAGNETOACOUSTIC WAVES
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

MAGNETOACOUSTICS
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155
Method of characterizing residual stress in ferromagnetic materials using a pulse histogram of acoustic emission signals
[NASA-CASE-LAR-14239-1] c 26 N93-14705

MAGNETOHYDRODYNAMIC FLOW
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

MAGNETOHYDRODYNAMIC GENERATORS
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

MAGNETOSTRICTION
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
MAGNETRON SPUTTERING
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
MAGNETRONS
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Shaff transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
MAGNIFICATION
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
MAGNITUDE
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
MAINTENANCE
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
MALEATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
MALFUNCTIONS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
MAMMALS
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
MAN MACHINE SYSTEMS
User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N93-14708
MANDRELS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
MANEUVERABILITY
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
MANGANESE
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
MANIFOLDS
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
MANIPULATORS
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
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[NASA-CASE-XLA-03661] c 15 N71-33518
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Rotary actuator
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[NASA-CASE-NPO-13105-1] c 37 N74-21060
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[NASA-CASE-MFS-20645-1] c 37 N74-23070
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[NASA-CASE-NPO-13281-1] c 37 N75-13266
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[NASA-CASE-MFS-23267-1] c 35 N77-20401
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
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[NASA-CASE-LEW-12390-1] c 07 N78-17056
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[NASA-CASE-WOO-00625] c 37 N78-17385
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[NASA-CASE-GSC-12274-1] c 37 N79-28550
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[NASA-CASE-GSC-12331-1] c 18 N80-14183
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Electrical rotary joint apparatus for large space structures
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[NASA-CASE-MFS-28059-1] c 37 N86-32738
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[NASA-CASE-MSC-21540-1] c 37 N91-32514
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[NASA-CASE-MSC-21434-1] c 37 N92-10197
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[NASA-CASE-GSC-13369-1] c 33 N92-15331
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[NASA-CASE-LAR-14352-1] c 37 N92-34173
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[NASA-CASE-MFS-21481-1] c 37 N74-18127
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[NASA-CASE-XMF-04680] c 15 N71-19489
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[NASA-CASE-NPO-13170-1] c 35 N76-14430
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[NASA-CASE-ARC-11418-1] c 24 N84-11213
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[NASA-CASE-LAR-13230-1] c 24 N84-34571
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[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
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[NASA-CASE-LAR-14188-1] c 27 N90-23545
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[NASA-CASE-LAR-14339-1] c 27 N90-26955
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[NASA-CASE-MSC-12111-1] c 02 N71-11039

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[NASA-CASE-XFR-10856] c 05 N71-11189
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[NASA-CASE-XFR-08403] c 05 N71-11202
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[NASA-CASE-HQN-10541-2] c 15 N71-27135
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
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[NASA-CASE-NPO-13214-1] c 35 N75-25123
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[NASA-CASE-NPO-13313-1] c 54 N75-27761
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[NASA-CASE-MSC-14180-1] c 52 N76-14757
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[NASA-CASE-ARC-10816-1] c 35 N76-24525
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[NASA-CASE-LEW-12258-1] c 52 N77-28716
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[NASA-CASE-MSC-14623-1] c 52 N77-28717
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[NASA-CASE-LEW-12668-1] c 52 N78-14773
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[NASA-CASE-LEW-12718-1] c 34 N78-25351
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[NASA-CASE-LEW-12723-1] c 52 N80-18690
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[NASA-CASE-ARC-11114-1] c 51 N81-14605
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[NASA-CASE-MSC-16433-1] c 52 N81-24711
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[NASA-CASE-LEW-13107-1] c 52 N83-21785
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[NASA-CASE-NPO-15197-1] c 52 N83-25346
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[NASA-CASE-LAR-12650-1] c 52 N84-28388
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[NASA-CASE-LAR-12650-2] c 52 N84-28389
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[NASA-CASE-LAR-12259-2] c 54 N86-22112
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
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[NASA-CASE-LAR-14036-1] c 27 N91-13562
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[NASA-CASE-MFS-28430-1] c 54 N92-24044

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[NASA-CASE-LAR-12881-1] c 27 N84-14323
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[NASA-CASE-LAR-12894-1] c 27 N85-20125
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[NASA-CASE-MFS-25786-2] c 76 N90-20896
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[NASA-CASE-LAR-12054-1] c 27 N79-33316
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[NASA-CASE-NPO-13969-1] c 76 N79-23798
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
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[NASA-CASE-NPO-14297-1] c 33 N81-19389
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[NASA-CASE-NPO-14831-1] c 76 N82-30105
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[NASA-CASE-MFS-25436-1] c 27 N83-36220
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[NASA-CASE-NPO-15629-1] c 76 N84-35113
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[NASA-CASE-NPO-10682] c 15 N70-34699
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[NASA-CASE-XNP-08881] c 17 N71-28747
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[NASA-CASE-NPO-14021-2] c 27 N80-16163
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[NASA-CASE-LEW-13135-2] c 27 N81-24257
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[NASA-CASE-GSC-10350-1] c 44 N82-24642
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[NASA-CASE-GSC-10018-1] c 44 N82-24644
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[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017

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[NASA-CASE-XMS-02952] c 18 N71-20742
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[NASA-CASE-NPO-11091] c 18 N72-22567
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[NASA-CASE-NPO-13732-1] c 44 N79-10513
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[NASA-CASE-ARC-11121-1] c 25 N79-14169
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[NASA-CASE-NPO-14101-1] c 52 N80-14687
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[NASA-CASE-ARC-10980-1] c 27 N80-23452
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[NASA-CASE-NPO-14001-1] c 27 N81-14076
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[NASA-CASE-XLA-08914-2] c 25 N82-21269
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[NASA-CASE-GSC-10019-1] c 44 N82-24641
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[NASA-CASE-XGS-05584-1] c 25 N82-29370
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[NASA-CASE-NPO-15375-1] c 74 N84-11921
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[NASA-CASE-ARC-11359-1] c 51 N84-28361
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[NASA-CASE-MSC-18172-3] c 31 N88-29052
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[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
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[NASA-CASE-MSC-21529-1] c 27 N92-30100

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[NASA-CASE-LAR-10994-1] c 24 N75-13032
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[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

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[NASA-CASE-MSC-20964-1] c 60 N87-14863
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
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[NASA-CASE-XMS-01625] c 15 N71-23022
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[NASA-CASE-XLE-04946] c 17 N71-24911
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[NASA-CASE-XMF-01083] c 15 N71-22723

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[NASA-CASE-GSC-12880-1] c 26 N86-32550

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[NASA-CASE-XGS-01475] c 03 N71-11058
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[NASA-CASE-XLA-08645] c 15 N69-21465
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[NASA-CASE-XNP-04148] c 17 N71-24830
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[NASA-CASE-LEW-23169-2] c 26 N81-16209
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
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Process for bonding elastomers to metal
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[NASA-CASE-XMF-00392] c 15 N70-34814
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[NASA-CASE-LAR-11726-1] c 37 N76-27568
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

METALLIC GLASSES
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

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Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
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[NASA-CASE-GSC-12880-1] c 26 N86-32550
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
High energy and high power density ultracapacitors and supercapacitors
[NASA-CASE-NPO-18568-1-CU] c 33 N93-17274

METALLOGRAPHY
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

METALLOSILOXANE POLYMER
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

METALLURGY
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

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Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
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[NASA-CASE-XNP-05297] c 15 N71-23811
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399

METASTABLE STATE
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

METEORITE COLLISIONS
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

METEORITES
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N92-30539

METEORITIC DAMAGE
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

METEOROID PROTECTION
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N92-30539

METEOROIDS
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

METEOROLOGICAL BALLOONS
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

METHYL ALCOHOL
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

METHYL COMPOUNDS
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015

METHYLENE
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

METRIC SPACE
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

MICHELSON INTERFEROMETERS
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

MICROANALYSIS
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

MICROBALANCES
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

MICROBALLOONS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

MICROBIOLOGY
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Kinetic tetrazolium microtiter assay
[NASA-CASE-MSC-21979-1] c 51 N93-17049

MICROCHANNELS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

MICROCRACKS
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-2] c 27 N93-11059
Method and apparatus for evaluating multilayer objects for imperfections
[NASA-CASE-LAR-14581-1-SB] c 38 N93-12204
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N93-13416

MICROELECTRONICS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

MICROFIBERS
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

MICROFILMS
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

MICROGRAVITY APPLICATIONS
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171

MICROINSTRUMENTATION
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMETEORITES
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

MICROMETEOROIDS
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Micrometeroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

MICROMETERS
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMINIATURIZATION
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

MICROORGANISMS
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1-SB] c 51 N93-18351

MICROPARTICLES
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

MICROPHONES
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021

MICROPOROSITY
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N92-33009

MICROPROCESSORS
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463

MICROSCOPES
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135

MICROSTRIP ANTENNAS
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

MICROSTRIP TRANSMISSION LINES
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

MICROSTRUCTURE
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

MICROTHRUST
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766

MICROWAVE AMPLIFIERS
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

MICROWAVE ANTENNAS
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

MICROWAVE CIRCUITS
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Universal nondestructive mm-wave integrated circuit test *fixture*
[NASA-CASE-LEW-14746-1] c 33 N91-14552

MICROWAVE COUPLING
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MICROWAVE EQUIPMENT
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N92-30103

MICROWAVE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

MICROWAVE FREQUENCIES
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

MICROWAVE OSCILLATORS
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

MICROWAVE PROBES
Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462

MICROWAVE RADIOMETERS
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

MICROWAVE REFLECTOMETERS
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

MICROWAVE RESONANCE
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MICROWAVE SCATTERING
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

MICROWAVE SENSORS
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

MICROWAVE SWITCHING
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

MICROWAVE TRANSMISSION
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

MICROWAVE TUBES
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208

MICROWAVES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462

MIDAIR COLLISIONS
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571

MILLING (MACHINING)
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

MILLING MACHINES
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

MIMD (COMPUTERS)
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

MINERAL DEPOSITS
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

MINERAL METABOLISM
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

MINERALS
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054

MINES (EXCAVATIONS)
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963

MINIATURE ELECTRONIC EQUIPMENT
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

MINIATURIZATION
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N92-30103
Large area projection liquid-crystal video display system with inherent grid pattern optically removed
[NASA-CASE-NPO-16932-2-CU] c 74 N93-13711

MINING
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

MINORITY CARRIERS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

MIRRORS
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N93-18277

MIS (SEMICONDUCTORS)
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

MISALIGNMENT
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543

MISSILE CONTROL
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

MISSILE LAUNCHERS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

MISSILE STRUCTURES
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

MISSILES
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

MITOSIS
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

MIXERS
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

MIXING
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

MIXING CIRCUITS
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

MIXTURES
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

MOBILE COMMUNICATION SYSTEMS
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

MOBILITY
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

MODE TRANSFORMERS
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133

MODELS
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

MODEMS
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

MODES (STANDING WAVES)
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

MODULATION
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

MODULATORS
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Full wave modulator-demodulator amplifier apparatus — for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154

MODULES
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
System for simultaneously loading program to master computer memory devices and corresponding slave computer memory devices
[NASA-CASE-MSC-21387-1] c 61 N93-18855

MODULUS OF ELASTICITY
Glass compositions with a high modulus of elasticity — nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

MOIRE EFFECTS
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

MOISTURE
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

MOISTURE CONTENT
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

MOISTURE METERS
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE RESISTANCE
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

MOLDING MATERIALS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molded composite pyrogen igniter for rocket motors — solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

MOLDS
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molding apparatus — for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Evacuated, displacement compression mold — of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Method of making an apertured casting — using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

MOLECULAR BEAM EPITAXY
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102
INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056

MOLECULAR BEAMS
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

MOLECULAR CHAINS
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402

MOLECULAR GASES
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

MOLECULAR PUMPS
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

MOLECULAR RELAXATION
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

MOLECULAR ROTATION
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

MOLECULAR SPECTRA
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

MOLECULAR SPECTROSCOPY
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MOLECULAR STRUCTURE
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

MOLECULAR WEIGHT
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
Polyimides containing the cyclobutene-3,4-dione moiety
[NASA-CASE-LAR-14753-1] c 27 N92-30313
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014

MOLECULES
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372
Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

MOLTEN SALT ELECTROLYTES
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

MOLYBDENUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MOMENTUM TRANSFER
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

MONATOMIC GASES
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
Operator-tailored adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N93-17273

MONOCHROMATIC RADIATION
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

MONOCHROMATORS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
X-ray monochromator
[NASA-CASE-MFS-28492-1] c 74 N93-14711

MONOMERS
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Polybenzimidazoles - via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317
Poly(1,2,4-triazole) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N93-18283
High temperature polymer from maleimide-acetylene terminated monomers
[NASA-CASE-LAR-14475-1] c 27 N93-19327

MONOPOLE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MONOPULSE ANTENNAS
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SICKNESS
Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628

MOTION SIMULATORS
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

MOUNTING
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020

MOUTH
Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616

MOVING TARGET INDICATORS
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULLITES
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

MULTIBEAM ANTENNAS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

MULTICHANNEL COMMUNICATION
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

MULTIPACTOR DISCHARGES
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391
Acceleration recorder and playback module
[NASA-CASE-MSC-22008-1] c 35 N93-17077

MULTIPLIERS
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011

MULTIPROCESSING (COMPUTERS)
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

MULTISENSOR APPLICATIONS
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390

MULTISPECTRAL BAND SCANNERS
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

MULTISPECTRAL PHOTOGRAPHY
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTISTATIC RADAR
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

MULTIVIBRATORS
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Control system and method for prosthetic devices
[NASA-CASE-MSC-21941-1] c 54 N93-17087

MUSCULAR FUNCTION
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
MUSCULOSKELETAL SYSTEM
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
MYOCARDIUM
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
MYOELECTRICITY
Control system and method for prosthetic devices
[NASA-CASE-MSC-21941-1] c 54 N93-17087
MYOPIA
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

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N-TYPE SEMICONDUCTORS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
NACELLES
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
NAPHTHALENE
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
NARROWBAND
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N93-13419
NASA PROGRAMS
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
NAVIGATION
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
NAVIGATION AIDS
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
NAVIGATION INSTRUMENTS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
NAVIGATION SATELLITES
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
NEAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
NEEDLES
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612
NEGATIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
NEGATIVE IONS
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
NEODYMIUM LASERS
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
NERVES
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
NETS
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
NETWORK SYNTHESIS
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
NEURAL NETS
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
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[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
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[NASA-CASE-NPO-15522-1] c 71 N83-32516
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[NASA-CASE-MFS-22671-1] c 35 N75-21582
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[NASA-CASE-LAR-12106-1] c 71 N78-14867
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[NASA-CASE-LAR-12882-1] c 35 N84-12445
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[NASA-CASE-XLA-00087] c 02 N70-33332
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[NASA-CASE-XNP-00683] c 09 N70-35425
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
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[NASA-CASE-XGS-01983] c 10 N70-41964
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[NASA-CASE-XGS-01812] c 07 N71-23001
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[NASA-CASE-NPO-11631] c 10 N73-12244
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[NASA-CASE-LEW-11286-1] c 07 N74-27490
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[NASA-CASE-LEW-11402-1] c 07 N74-28226
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[NASA-CASE-LAR-10642-1] c 07 N74-31270
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[NASA-CASE-ARC-10712-1] c 07 N74-33218
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[NASA-CASE-MSC-12607-1] c 32 N75-21485
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[NASA-CASE-LEW-12317-1] c 07 N78-17055
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[NASA-CASE-NPO-15341-1] c 35 N84-33769
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[NASA-CASE-LAR-13153-1] c 71 N86-21276
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Magneto acoustic emission apparatus for testing materials for embrittlement
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[NASA-CASE-LEW-15200-1] c 20 N91-32167
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[NASA-CASE-LAR-13817-4] c 39 N92-29101
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[NASA-CASE-LAR-13817-2] c 39 N92-29155
Method and apparatus for thermographically and quantitatively analyzing a structure for disbonds and/or inclusions
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[NASA-CASE-NPO-18454-1-CU] c 33 N93-18285
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[NASA-CASE-LEW-15200-1] c 20 N93-18856
High speed thin plate fatigue crack monitor
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NONEQUILIBRIUM CONDITIONS
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

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Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
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NONEQUILIBRIUM RADIATION
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
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[NASA-CASE-ARC-10196-1] c 18 N73-13562
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
NONLINEAR FEEDBACK
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[NASA-CASE-NPO-11921-1] c 32 N74-30523
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177
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Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
NONLINEAR OPTICS
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372
NONLINEAR SYSTEMS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177
NONLINEARITY
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
The adaptive neuron model: An architecture for the rapid learning of nonlinear topological transformations
[NASA-CASE-NPO-18579-1-CU] c 63 N93-11174
NORMAL DENSITY FUNCTIONS
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
NOSE CONES
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
NOSE WHEELS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
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Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140
NOTCH STRENGTH
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
NOTCH TESTS
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
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[NASA-CASE-MFS-23303-1] c 32 N77-18307
NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
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[NASA-CASE-XLE-103477-1] c 28 N71-20330
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[NASA-CASE-XNP-02888] c 18 N71-21068
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
NOZZLE GEOMETRY
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
NOZZLE INSERTS
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
NUCLEAR EXPLOSION EFFECT
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
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Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
NUCLEAR MAGNETIC RESONANCE
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
NUCLEAR POWER PLANTS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
NUCLEAR PUMPED LASERS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
NUCLEAR PUMPING
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
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Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
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[NASA-CASE-NPO-13121-1] c 73 N77-18891
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388
NUCLEATE BOILING
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
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[NASA-CASE-MFS-28473-1] c 76 N93-14707
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[NASA-CASE-LAR-13988-1] c 23 N89-11814
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Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
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[NASA-CASE-MSC-14082-1] c 60 N76-23850
NUMERICAL ANALYSIS
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
NUMERICAL CONTROL
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[NASA-CASE-LAR-10204] c 14 N71-27215
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[NASA-CASE-MSC-16747-1] c 33 N81-17349
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
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[NASA-CASE-MSC-18498-1] c 60 N82-29013
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
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[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
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[NASA-CASE-GSC-13450-1] c 44 N92-23463
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[NASA-CASE-MSC-21387-1] c 61 N93-18855
Numerical control fabrication technique for dynamic composite models
[NASA-CASE-LAR-14004-1] c 63 N93-19024
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[NASA-CASE-XGS-04768] c 08 N71-19437
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[NASA-CASE-XMF-00442] c 31 N71-10747
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[NASA-CASE-GSC-11205-1] c 15 N73-25513
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[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
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[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054
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[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271
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[NASA-CASE-XGS-01971] c 15 N71-15922
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150
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[NASA-CASE-MFS-28659-1] c 37 N93-17080

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[NASA-CASE-XNP-00214] c 15 N70-36908
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[NASA-CASE-LEW-12991-1] c 37 N81-24442
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[NASA-CASE-LEW-12119-2] c 37 N81-26447
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[NASA-CASE-LAR-12361-1] c 37 N83-19091
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
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[NASA-CASE-LEW-14170-1] c 37 N86-25790
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[NASA-CASE-MFS-28376-1] c 14 N91-21175
Check valve with poppet dashpot/frictional damping mechanism
[NASA-CASE-MSC-21950-1] c 37 N92-34242
OBLIQUE WINGS
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[NASA-CASE-ARC-10470-3] c 05 N76-29217
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[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
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Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
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[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
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[NASA-CASE-MFS-25740-1] c 52 N84-11744
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[NASA-CASE-MFS-23862-1] c 48 N80-18667
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
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Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
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[NASA-CASE-MSC-21842-1] c 54 N93-17088
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[NASA-CASE-KSC-11034-1] c 44 N78-32542
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Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
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[NASA-CASE-NPO-14231-1] c 46 N80-10709
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[NASA-CASE-NPO-11609-2] c 27 N77-31308
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[NASA-CASE-LEW-12217-1] c 43 N78-14452
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
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Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
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[NASA-CASE-LAR-14188-2] c 23 N91-14419
OMNIDIRECTIONAL ANTENNAS
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
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[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
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[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
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[NASA-CASE-XLA-00118] c 05 N70-33285
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[NASA-CASE-XMS-04390] c 31 N70-41871
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
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[NASA-CASE-ERC-10090] c 21 N71-24948
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
OPEN CHANNEL FLOW
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
OPENINGS
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
OPERATING TEMPERATURE
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
OPERATIONAL AMPLIFIERS
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
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Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
OPTICAL ACTIVITY
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571
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Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
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[NASA-CASE-NPO-13531-1] c 36 N76-24553
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
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[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
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[NASA-CASE-NPO-16256-1] c 32 N87-21207
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
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[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791
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[NASA-CASE-MSC-21806-1] c 74 N92-17863
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[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551
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Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
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[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
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[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404
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Automatic quadrature control and measuring system --- using optical coupling circuitry
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Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
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Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
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[NASA-CASE-GSC-12111-2] c 33 N81-29342
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
OPTICAL DENSITY
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
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Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133
OPTICAL EMISSION SPECTROSCOPY
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
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[NASA-CASE-LAR-13963-1] c 76 N90-24150
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[NASA-CASE-XGS-05534] c 23 N71-16355
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
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[NASA-CASE-XLA-01907] c 14 N71-23268
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
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[NASA-CASE-LAR-10726-1] c 14 N73-20475
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
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[NASA-CASE-NPO-15801-1] c 74 N85-23396
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084

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Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
An interferometer having fused optical fibers, and apparatus and method using the interferometer
[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052
Optical fiber strain sensor with improved linearity
[NASA-CASE-LAR-14857-1-SB] c 74 N93-19374
Discrete optical fiber strain sensor
[NASA-CASE-LAR-14810-1-SB] c 35 N93-19492

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High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N93-13419

OPTICAL GYROSCOPES

Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

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Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

OPTICAL MATERIALS

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

OPTICAL MEASUREMENT

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N93-18275

OPTICAL MEASURING INSTRUMENTS

Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

OPTICAL MEMORY (DATA STORAGE)

Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
Optical inner product neural associative memory
[NASA-CASE-NPO-18491-1-CU] c 60 N92-23546
Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

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[NASA-CASE-MSC-14096-1] c 74 N74-15095
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[NASA-CASE-XGS-01159] c 21 N71-10678
Optical tracker having overlapping reticles on parallel axes Patent
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[NASA-CASE-MFS-14017] c 14 N71-26627
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Real-time optical multiple object recognition and tracking system and method
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[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278
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[NASA-CASE-LAR-13490-1] c 18 N91-27199
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System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
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Automatic system for installation and replacement of Space Station components
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ORGANIC CHEMISTRY
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
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[NASA-CASE-NPO-12130-1] c 25 N75-14844
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
ORGANIC COMPOUNDS
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
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[NASA-CASE-MSC-14428-1] c 23 N77-17161
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[NASA-CASE-MSC-16497-1] c 25 N82-12166
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[NASA-CASE-ARC-11421-2] c 27 N86-31726
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
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Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
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Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
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Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
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[NASA-CASE-XNP-04023] c 06 N71-28808
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
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Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
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Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032

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Apparatus for checking threaded hole perpendicularity
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Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504

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Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
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[NASA-CASE-ARC-11631-1] c 34 N87-21255
Variable orifice flow regulator
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Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
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[NASA-CASE-MFS-29766-1] c 33 N92-33030

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Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

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Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHOGONAL MULTIPLEXING THEORY
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

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Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
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[NASA-CASE-LAR-13255-1] c 02 N87-16793

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[NASA-CASE-GSC-12082-1] c 54 N76-22914
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[NASA-CASE-GSC-12082-2] c 52 N81-25661

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[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

OSCILLATING FLOW
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
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[NASA-CASE-LAR-14033-2] c 34 N92-30024

OSCILLATION DAMPERS
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[NASA-CASE-XLA-02079] c 12 N71-16894
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[NASA-CASE-XAC-01591] c 31 N71-17729
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
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[NASA-CASE-LEW-13717-1] c 37 N85-30333

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[NASA-CASE-ERC-10403-1] c 10 N73-26228
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[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

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Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
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[NASA-CASE-LEW-10345-1] c 10 N71-25899
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[NASA-CASE-XLA-03893] c 10 N71-27271
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

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Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

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Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397

OUTER PLANETS EXPLORERS
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

OUTGASSING
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

OUTLET FLOW
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

OUTPUT
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

OVENS
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

OVERPRESSURE
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

OVERVOLTAGE
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377

OXAZOLE
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

OXIDATION
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
Oxidation resistant coating for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N92-29090

OXIDATION RESISTANCE
Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

Oxidation resistant coating for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N92-29090
Oxidation resistant overlay coatings for low expansion substrates
[NASA-CASE-LEW-15154-1] c 27 N93-19332

OXIDATION-REDUCTION REACTIONS
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Catalyst surfaces for the chromous/chromic redox *couple*
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

OXIDE FILMS
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

OXIDES
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

OXIDIZERS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

OXIMETRY
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

OXYGEN
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Device for quickly sensing the amount of O2 in a *combustion product gas*
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098
High-temperature, high-pressure oxygen metering valve
[NASA-CASE-MSC-21823-1] c 37 N93-14843
High temperature sorbents for oxygen
[NASA-CASE-NPO-18409-1-CU] c 25 N93-19025

OXYGEN ATOMS
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947
Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098
A method for making biocompatible polymer articles using atomic oxygen
[NASA-CASE-MSC-21529-1] c 27 N92-30100
Method and apparatus for producing a thermal atomic oxygen beam
[NASA-CASE-LEW-15614-1] c 72 N93-19026

OXYGEN CONSUMPTION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

OXYGEN FLUORIDES
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

OXYGEN ISOTOPES
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

OXYGEN METABOLISM
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

OXYGEN PLASMA
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

OXYGEN PRODUCTION
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

OXYGEN REGULATORS
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

OXYGEN SUPPLY EQUIPMENT
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

OZONE
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

P

P-I-N JUNCTIONS
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

P-N JUNCTIONS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Semiconductor p-n junction stress and strain sensor
[*NASA-CASE-XLA-04980*] c 09 *N69-27422*
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

P-TYPE SEMICONDUCTORS
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

PACKAGES
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

PACKAGING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482

PACKET TRANSMISSION
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

PACKING DENSITY
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

PACKINGS (SEALS)
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

PAINTS
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

PALLADIUM
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[*NASA-CASE-XLA-08916*] c 15 N71-29018
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022

PANORAMIC SCANNING
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

PAPER (MATERIAL)
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

PAPERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

PARABOLIC REFLECTORS
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

PARABOLOID MIRRORS
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

PARACHUTE DESCENT
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

PARAGLIDERS
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL COMPUTERS
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

PARALLEL PLATES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Method and apparatus for controlling protein crystallization
[NASA-CASE-MFS-28688-1] c 76 N93-17043
Consecutive plate acoustic suppressor apparatus and methods
[NASA-CASE-LEW-15430-1] c 71 N93-17051

PARALLEL PROCESSING (COMPUTERS)
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
Synchronous parallel system for emulation and discrete event simulation
[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

PARAMETER IDENTIFICATION
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

PARAMETRIC AMPLIFIERS
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARAWINGS
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

PARKING
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

PARTIAL PRESSURE
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

PARTICLE ACCELERATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

PARTICLE ACCELERATOR TARGETS
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

PARTICLE COLLISIONS
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

PARTICLE DENSITY (CONCENTRATION)
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE INTERACTIONS
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

PARTICLE MASS
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

PARTICLE MOTION
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

PARTICLE PRODUCTION
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

PARTICLE SIZE DISTRIBUTION
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

PARTICLE TRACKS
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

PARTICLE TRAJECTORIES
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

PARTICULATE SAMPLING
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

PARTICULATES
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
Fluid separator
[NASA-CASE-MFS-28658-1] c 34 N93-17039

PASSAGEWAYS
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

PASSENGERS
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PASSIVITY
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

PASTES
Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

PATENT APPLICATIONS
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

PATENTS
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

PATTERN RECOGNITION
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N93-18282

PATTERN REGISTRATION
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

PAYLOAD DELIVERY (STS)
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

PAYLOAD RETRIEVAL (STS)
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

PAYLOADS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

PCM TELEMETRY
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

PEELING
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

PEENING
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

PELLETS
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

PELTIER EFFECTS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PELVIS
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

PENETRANTS
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

PENETRATION
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphathalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

PERFLUOROALKANE
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

PERFORATED SHELLS
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

PERFORMANCE TESTS
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

PERIODIC VARIATIONS
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

PERISCOPES
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

PERMANENT MAGNETS
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

PERMEABILITY
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PERMITTIVITY
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

PEROXIDES
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSONAL COMPUTERS
Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541

PERSPIRATION
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

PERTURBATION THEORY
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHASE COHERENCE
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONJUGATION
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

PHASE CONTRAST
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

PHASE DEVIATION
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

PHASE ERROR
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882

PHASE LOCK DEMODULATORS
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

PHASE LOCKED SYSTEMS
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404

PHASE MODULATION
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551

PHASE SHIFT
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571
Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058

PHASE SHIFT CIRCUITS
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

PHASE SHIFT KEYING
Decision feedback loop for tracking a polyphase *modulated carrier*
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
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[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
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PHONOCARDIOGRAPHY
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[NASA-CASE-XKS-10804] c 05 N71-24606
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[NASA-CASE-ARC-11176-1] c 27 N82-18389
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[NASA-CASE-ARC-11370-1] c 27 N84-22750
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[NASA-CASE-ARC-11428-1] c 23 N86-19376
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[NASA-CASE-ARC-11428-2] c 27 N87-16909
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[NASA-CASE-MFS-28232-1] c 74 N91-14835
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[NASA-CASE-MFS-28563-1] c 35 N91-25388
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[NASA-CASE-LAR-13616-1] c 74 N91-31950
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[NASA-CASE-LAR-13616-3] c 74 N92-29158
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[NASA-CASE-LAR-12958-1] c 44 N84-23019
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[NASA-CASE-ARC-11522-2] c 27 N85-34280
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[NASA-CASE-ARC-11425-4] c 23 N90-20133
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III-V photocathode with nitrogen doping for increased quantum efficiency
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[NASA-CASE-NPO-13566-1] c 25 N77-32255
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[NASA-CASE-LEW-12465-1] c 25 N78-25148
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
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[NASA-CASE-LAR-13989-1] c 35 N91-13694
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[NASA-CASE-LAR-12513-1] c 44 N82-32841
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[NASA-CASE-ERC-10108] c 06 N72-21094
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[NASA-CASE-NPO-15155-1] c 74 N85-22139
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[NASA-CASE-XGS-01159] c 21 N71-10678
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Light radiation direction indicator with a baffle of two parallel grids
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Photoelectrochemical cells including chalcogenophosphate photoelectrodes
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[NASA-CASE-NPO-16155-1] c 44 N85-30475
PHOTOELECTRICITY
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[NASA-CASE-NPO-15458-1] c 25 N84-12262
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Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
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[NASA-CASE-NPO-14219-1] c 74 N81-17886
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[NASA-CASE-LAR-10686] c 14 N71-28935
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[NASA-CASE-LAR-10319-1] c 14 N73-32322
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[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
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[NASA-CASE-MFS-28013-2] c 89 N91-14096
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[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
PHOTOGRAPHIC PROCESSING
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[NASA-CASE-GSC-11989-1] c 74 N77-28932
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[NASA-CASE-MFS-23461-1] c 35 N79-10389
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[NASA-CASE-GSC-11074-1] c 14 N73-28489
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Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
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[NASA-CASE-ERC-10019] c 16 N71-15551
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[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
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[NASA-CASE-MFS-20596] c 14 N72-17324
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
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A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
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[NASA-CASE-NPO-10320] c 14 N71-17655
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[NASA-CASE-NPO-10194] c 03 N71-20407
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[NASA-CASE-XNP-01059] c 23 N71-21821
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[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
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[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058
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[NASA-CASE-NPO-18317-1-CU] c 74 N93-13419
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Stereo photomicrography system
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[NASA-CASE-ARC-10468-1] c 14 N73-33361
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[NASA-CASE-NPO-16299-1] c 33 N87-14594
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Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
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[NASA-CASE-ARC-10593-1] c 33 N74-27682
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Apparatus for photon excited catalysis
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[NASA-CASE-NPO-16372-1] c 72 N86-33127
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Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
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[NASA-CASE-MSC-10966] c 14 N71-19568
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[NASA-CASE-LAR-10320-1] c 09 N72-23172
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Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
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[NASA-CASE-MSC-20036-1] c 76 N85-33826
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[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
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Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
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[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
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[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
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[NASA-CASE-XGS-03736] c 14 N72-22443
PHOTOVISCOELASTICITY
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
PHOTOVOLTAIC CELLS
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
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[NASA-CASE-XGS-00359] c 14 N70-34158
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method of fabricating a photovoltaic module of a substantially transparent construction
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Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
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[NASA-CASE-LEW-13401-1] c 44 N82-29709
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[NASA-CASE-LEW-13400-1] c 44 N82-31764
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[NASA-CASE-NPO-14936-1] c 47 N83-32232
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[NASA-CASE-NPO-16155-1] c 44 N85-30475
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
GaAs Schottky barrier photo-responsive device and method of fabrication
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[NASA-CASE-NPO-15904-1] c 76 N86-28760
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[NASA-CASE-LEW-15308-1] c 44 N92-24057
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Photoelectrochemical cells including chalcogenophosphate photoelectrodes
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[NASA-CASE-MSC-12259-1] c 07 N70-12616
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
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[NASA-CASE-ARC-11413-1] c 27 N85-21348
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[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
PHYSICAL EXERCISE
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
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[NASA-CASE-LAR-11667-1] c 52 N76-19785
PHYSICAL OPTICS
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[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
PHYSICAL PROPERTIES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
PHYSICAL WORK
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
PHYSIOLOGICAL EFFECTS
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
PHYSIOLOGICAL TESTS
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
PHYSIOLOGY
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
PHYTOTRONS
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171
PIERCING
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
PIEZOELECTRIC CRYSTALS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
PIEZOELECTRIC GAGES
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
PIEZOELECTRIC TRANSDUCERS
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
PIEZOELECTRICITY
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
PIEZORESISTIVE TRANSDUCERS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
PIGMENTS
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
PILOT TRAINING
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
PILOTS (PERSONNEL)
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
PINCH EFFECT
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
PINHOLE CAMERAS
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
PINS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120
PINTLES
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
PIPE FLOW
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
PIPELINES
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
PIPELINING (COMPUTERS)
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
PIPES (TUBES)
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610

PISTON ENGINES
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

PISTONS
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
Cooled spool piston compressor
[NASA-CASE-MSC-22020-1] c 37 N93-19331

PITCH (INCLINATION)
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

PITCHING MOMENTS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

PITOT TUBES
Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213

PIVOTS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Bladder operated robotic joint
[NASA-CASE-MFS-28682-1] c 27 N92-29831
Flexible robotic arm
[NASA-CASE-GSC-13161-1] c 37 N92-33634

PIXELS
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

PLANAR STRUCTURES
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462

PLANE WAVES
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

PLANETARY ATMOSPHERES
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

PLANETARY GRAVITATION
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

PLANETARY LANDING
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

PLANETARY MAPPING
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANETARY ORBITS
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

PLANETARY RADIATION
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANTS (BOTANY)
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

PLASMA ACCELERATION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA ARC WELDING
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131

PLASMA CONTROL
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMA DIAGNOSTICS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

PLASMA DYNAMICS
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

PLASMA GENERATORS
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875

PLASMA JETS
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

PLASMA LAYERS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

PLASMA RADIATION
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Method and apparatus for producing a thermal atomic oxygen beam
[NASA-CASE-LEW-15614-1] c 72 N93-19026

PLASMA SHEATHS
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

PLASMA TEMPERATURE
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

PLASMONS
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with *plasma polymerized silicon-containing monomers*
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

PLASTIC DEFORMATION
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC FLOW
Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157

PLASTIC PROPERTIES
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

PLASTIC TAPES
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and *articles produced thereby*
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157

PLATENS
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

PLATES (STRUCTURAL MEMBERS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678

PLATFORMS
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

PLATING
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461
High temperature sorbents for oxygen
[NASA-CASE-NPO-18409-1-CU] c 25 N93-19025

PLATINUM ALLOYS
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

PLENUM CHAMBERS
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

PLOTTERS
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038
Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N93-14702

PLUMES
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

PLUNGERS
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161
Check valve with poppet dashpot/frictional damping mechanism
[NASA-CASE-MSC-21950-1] c 37 N92-34242

PNEUMATIC CONTROL
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

POINT SOURCES
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

POINTS (MATHEMATICS)
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARIMETRY
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

POLARITY
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-2-CU] c 47 N93-10108

POLARIZATION (WAVES)
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

POLARIZED LIGHT
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027

POLARIZED RADIATION
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117

POLES
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

POLISHING
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

POLLUTION MONITORING
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence *of a specific pollutant in air*
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical *reactions and heat treatment*
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

POLYAMIDE RESINS
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective *clothing for high oxygen environments*
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Fire and heat resistant laminating resins based on malemeido and citraconimido substituted 1 -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043

POLYBENZIMIDAZOLE
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953

POLYBUTADIENE
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent *application*
[NASA-CASE-NPO-10447] c 06 N70-11252
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

POLYCRYSTALS
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

POLYESTERS

Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Sulfone-ester polymers containing pendent ethynl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYETHER RESINS

Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYIMIDE RESINS

Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-2] c 27 N93-11059

POLYIMIDES

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
Processable polyimide adhesive and matrix composite resin
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[NASA-CASE-LAR-14538-1] c 27 N92-11201
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[NASA-CASE-NPO-10893] c 27 N73-22710
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[NASA-CASE-NPO-10998-1] c 06 N73-32029
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[NASA-CASE-ARC-10592-1] c 27 N74-21156
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[NASA-CASE-ARC-10592-2] c 27 N76-32315
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[NASA-CASE-ARC-11154-1] c 25 N80-23383
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[NASA-CASE-LEW-14072-3] c 27 N87-23736
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[NASA-CASE-LAR-14440-1] c 23 N93-18283

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[NASA-CASE-NPO-13867-1] c 27 N78-14164
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[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
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Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

POLYURETHANE FOAM
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Modified polyurethane foams for fuel-fire Patent
[*NASA-CASE-ARC-10098-1*] *c 06 N71-24739*
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

POLYURETHANE RESINS
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

POLYVINYL ALCOHOL
In situ self cross-linking of polyvinyl alcohol battery *separators*
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

POLYVINYL CHLORIDE
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

PONDS
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
PORCELAIN
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
POROSITY
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387
POROUS MATERIALS
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Heat exchanger and method of making --- bonding rocket *chambers with a porous metal matrix*
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387
POROUS PLATES
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
PORPHYRINS
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
PORTABLE EQUIPMENT
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
PORTABLE LIFE SUPPORT SYSTEMS
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
PORTS (OPENINGS)
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
POSITION (LOCATION)
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039
Discrete optical fiber strain sensor
[NASA-CASE-LAR-14810-1-SB] c 35 N93-19492
POSITION ERRORS
Position-error-based force reflection and compliance control
[NASA-CASE-NPO-18668-1-CU] c 37 N92-29765
POSITION INDICATORS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
POSITION SENSING
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
POSITIONING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
POSITIONING DEVICES (MACHINERY)
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212

POSITIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

POSITRONS
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

POTABLE WATER
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1-SB] c 51 N93-18351

POTASSIUM SILICATES
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

POTTING COMPOUNDS
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
Process for applying a superconductive powder to a wide variety of substrates
[NASA-CASE-LAR-14729-1-CU] c 33 N93-19051

POWDER METALLURGY
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

POWDERED ALUMINUM
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388
Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278

POWER CONDITIONING
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

POWER CONVERTERS
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278

POWER EFFICIENCY
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029

POWER FACTOR CONTROLLERS
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

POWER GAIN
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

POWER LIMITERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER REACTORS
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER SERIES
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

PREAMPLIFIERS
Electronic still camera
[NASA-CASE-MSC-21797-1] c 35 N93-17076

PREBURNERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

PRECESSION
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

PRECIPITATORS
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

PRECISION
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

PREDICTIONS
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

PREFLIGHT OPERATIONS
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

PREFORMS
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

PRELAUNCH TESTS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

PREPOLYMERS
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

PREPREGS
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214

PRESSURE
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318

PRESSURE CHAMBERS
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

PRESSURE DISTRIBUTION
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028

PRESSURE DRAG
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

PRESSURE DROP
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

PRESSURE EFFECTS
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754

PRESSURE GAGES
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

PRESSURE GRADIENTS
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N93-19053

PRESSURE HEADS
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

PRESSURE MEASUREMENT
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N93-13421

PRESSURE PULSES
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016

PRESSURE REDUCTION
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493

PRESSURE REGULATORS
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909

PRESSURE SENSORS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213
An interferometer having fused optical fibers, and apparatus and method using the interferometer
[NASA-CASE-LAR-14640-1-CU] c 74 N93-17052

PRESSURE SUITS
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

PRESSURE SWITCHES
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

PRESSURE VESSELS
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

PRESSURE WELDING
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

PRESSURIZING
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

PRESTRESSING
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MSC-21940-1] c 37 N92-30540
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018

PRETREATMENT
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

PRINTED CIRCUITS
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Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912
Process for applying a superconductive powder to a wide variety of substrates
[NASA-CASE-LAR-14729-1-CU] c 33 N93-19051
Oxidation resistant overlay coatings for low expansion substrates
[NASA-CASE-LEW-15154-1] c 27 N93-19332

PROTECTORS
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

PROTEIN CRYSTAL GROWTH
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171
Method and apparatus for controlling protein crystallization
[NASA-CASE-MFS-28688-1] c 76 N93-17043

PROTEINS
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

PROTOCOL (COMPUTERS)
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

PROTON FLUX DENSITY
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

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Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

PSEUDONOISE
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PULMONARY CIRCULATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

PULSE AMPLITUDE MODULATION
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE COMMUNICATION
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

PULSE DURATION
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788

PULSE DURATION MODULATION
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING
Instrumentation for sensing moisture content of material *using a transient thermal pulse*
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

PULSED LASERS
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083

PULSED RADIATION
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

PULSES
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

PULTRUSION
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

PUMP SEALS
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

PUNCHED CARDS
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

PURGING
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

PURIFICATION
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

PURITY
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

PUSH-PULL AMPLIFIERS
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

PUSHING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PYLONS
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

PYRAMIDS
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

PYRIDINES
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

PYROELECTRICITY
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

PYROGEN
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

PYROLYSIS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

PYROLYTIC GRAPHITE
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208

PYROLYTIC MATERIALS
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623

PYROMETERS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

PYROTECHNICS
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

PYRRONES (TRADEMARK)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

Q SWITCHED LASERS
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788
Method and apparatus for detection and control of prelasing in a Q-switched laser
[NASA-CASE-LAR-14790-1] c 36 N93-19373

Q VALUES
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

QUADRANTS
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

QUADRATIC PROGRAMMING
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
QUADRATURES
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
QUALITATIVE ANALYSIS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
QUANTITATIVE ANALYSIS
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
QUANTUM THEORY
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
QUANTUM WELLS
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
Long wavelength infrared detector
[NASA-CASE-NPO-17543-2-CU] c 35 N93-19387
QUARTZ
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
QUARTZ LAMPS
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
QUEUEING THEORY
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
QUINOXALINES
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

R

RACKS (FRAMES)
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
RADAR ANTENNAS
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
RADAR ATTENUATION
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
RADAR BEACONS
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
RADAR BEAMS
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
RADAR CROSS SECTIONS
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
RADAR DATA
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
RADAR DETECTION
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
RADAR ECHOES
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
RADAR EQUIPMENT
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
RADAR IMAGERY
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
RADAR MEASUREMENT
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
RADAR RANGE
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
RADAR RECEIVERS
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
RADAR RECEPTION
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
RADAR REFLECTORS
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
RADAR TARGETS
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
RADAR TRACKING
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
RADAR TRANSMITTERS
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
RADIAL DISTRIBUTION
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
RADIAL FLOW
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
RADIANCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
RADIANT COOLING
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
RADIANT FLUX DENSITY
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
RADIANT HEATING
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
RADIATION
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
RADIATION ABSORPTION
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION COUNTERS
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATION DETECTORS
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N93-17060

RADIATION DISTRIBUTION
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION DOSAGE
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION EFFECTS
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIATION HARDENING
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

RADIATION HAZARDS
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION MEASUREMENT
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

RADIATION MEASURING INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

RADIATION PYROMETERS
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N93-17060

RADIATION SHIELDING
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151

RADIATION SOURCES
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

RADIATION SPECTRA
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATIVE HEAT TRANSFER
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

RADIO ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
RADIO ASTRONOMY
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
RADIO BEACONS
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374
RADIO COMMUNICATION
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
RADIO CONTROL
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
RADIO EQUIPMENT
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
RADIO FREQUENCIES
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
RADIO FREQUENCY DISCHARGE
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
RADIO FREQUENCY HEATING
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
RADIO FREQUENCY INTERFERENCE
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
RADIO FREQUENCY SHIELDING
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
RADIO INTERFEROMETERS
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
RADIO PROBING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
RADIO RECEIVERS
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N92-30103
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404
RADIO RELAY SYSTEMS
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
RADIO SIGNALS
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
RADIO SOURCES (ASTRONOMY)
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
RADIO STARS
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
RADIO TELEMETRY
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
RADIO TELESCOPES
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
RADIO TRANSMITTERS
Vehicle locating system utilizing AM broadcasting station *carriers*
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
RADIO WAVES
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
RADIOACTIVE ISOTOPES
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
RADIOBIOLOGY
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
RADIOGRAPHY
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
RADIOLOGY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
RADIOLYSIS
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
RADIOMETERS
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117
RADIOSONDES
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
RAIN
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
RAMJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
RAMPS (STRUCTURES)
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
RANDOM ACCESS MEMORY
Memory-based frame synchronizer --- for digital *communication systems*
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N93-14704
RANDOM LOADS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
RANDOM NOISE
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844

Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

RANDOM NUMBERS
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE AND RANGE RATE TRACKING
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

RANGE FINDERS
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

RANGEFINDING
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RASTER SCANNING
Method for advanced material characterization by laser *induced eddy current imaging*
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

RATES (PER TIME)
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

RAY TRACING
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

RC CIRCUITS
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTING FLOW
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-2] c 35 N93-17626

REACTION BONDING
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

REACTION CONTROL
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-2] c 35 N93-17626

REACTION PRODUCTS
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READING
Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616

READOUT
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542

REAL TIME OPERATION
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Real-time image difference detection using a polarization *rotation spacial light modulator*
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18521-1-CU] c 74 N93-14404
Operator-tailored adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N93-17273
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276

REATTACHED FLOW
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

REBREATHING
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

RECEIVERS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

RECHARGING
Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N93-17278

RECIPROCATION
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

RECOMBINATION REACTIONS
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

RECONSTRUCTION
Method and means for recording and reconstructing *holograms without use of a reference beam* Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

RECORDING HEADS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

RECORDING INSTRUMENTS
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Acceleration recorder and playback module
[NASA-CASE-MSC-22008-1] c 35 N93-17077

RECOVERABILITY
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

RECOVERABLE LAUNCH VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

RECOVERABLE SPACECRAFT
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

RECOVERY PARACHUTES
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

RECTANGULAR PANELS
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

RECTIFIERS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

RECTUM
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RECURSIVE FUNCTIONS
Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

REDOX CELLS
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Zirconium carbide as an electrocatalyst for the *chromous-chromic redox couple*
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

REDUCED GRAVITY
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N93-14707
Passive zero-gravity leg restraint
[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713

REDUCTION (CHEMISTRY)
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Curable liquid hydrocarbon prepolymers containing *hydroxyl groups and process for producing same*
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

REDUNDANCY
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
New kinematic functions for redundancy resolution using configuration control
[NASA-CASE-NPO-18608-1-CU] c 63 N93-17275

REDUNDANCY ENCODING
Fault-tolerant fiber optic backplane
[NASA-CASE-LAR-14785-1] c 74 N93-19052

REDUNDANT COMPONENTS
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

REED-SOLOMON CODES
Mappings between codewords of two distinct (N,K) Reed-Solomon codes over GF(2 sup J)
[NASA-CASE-NPO-18771-1-CU] c 61 N93-11664

REELS
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

REENTRY COMMUNICATION
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

REENTRY SHIELDING
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

REENTRY TRAJECTORIES
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

REENTRY VEHICLES
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[NASA-CASE-XLA-00165] c 31 N70-33242
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[NASA-CASE-XLA-00241] c 31 N70-37986
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[NASA-CASE-XLA-03273] c 14 N71-18699
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[NASA-CASE-XLA-01791] c 14 N71-22991
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
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[NASA-CASE-LAR-10549-1] c 31 N73-13898
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[NASA-CASE-MSC-14270-2] c 27 N76-23426
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[NASA-CASE-LAR-13486-1] c 16 N90-22584

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[NASA-CASE-KSC-10393] c 09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

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[NASA-CASE-XNP-00733] c 06 N70-34946

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Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N93-17060

REFLECTED WAVES
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
System and method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-1] c 34 N93-11172

REFLECTING TELESCOPES
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

REFLECTION
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

REFLECTOMETERS
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

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Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391

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[NASA-CASE-XLA-00138] c 31 N70-37981
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
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[NASA-CASE-XGS-08269] c 23 N71-26206
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
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[NASA-CASE-MFS-29207-1] c 74 N87-25843
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122
Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700

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Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

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[NASA-CASE-GSC-12088-1] c 74 N78-13874
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084

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Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

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High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
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[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160

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Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
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[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

REFRIGERATING
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

REFRIGERATING MACHINERY
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

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Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917

Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
Three-stage sorption type cryogenic refrigeration systems and methods employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N93-13422

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Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

REGENERATION (ENGINEERING)
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

REGENERATION (PHYSIOLOGY)
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

REGENERATIVE COOLING
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
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[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Three-stage sorption type cryogenic refrigeration systems and methods employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N93-13422

REGENERATIVE FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

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Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

REGISTERS (COMPUTERS)
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800

REINFORCED PLASTICS
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125

REINFORCEMENT (STRUCTURES)
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

REINFORCEMENT RINGS
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

REINFORCING FIBERS
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199

REINFORCING MATERIALS
Numerical control fabrication technique for dynamic composite models
[NASA-CASE-LAR-14004-1] c 63 N93-19024

RELAXATION OSCILLATORS
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

RELAY SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

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[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161

RELIABILITY ANALYSIS
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

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Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
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Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
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[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

RELIEF MAPS
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

RELIEF VALVES
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

REMANENCE
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

REMOTE CONTROL
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
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Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MSC-21940-1] c 37 N92-30540

REMOTE HANDLING
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

REMOTE MANIPULATOR SYSTEM
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

REMOTE SENSING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

REMOTE SENSORS
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

REMOTELY PILOTED VEHICLES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

REMOVAL
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032

REPEATERS
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

REPLACING
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N93-14871

RESCUE OPERATIONS
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

RESEARCH AIRCRAFT
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

RESEARCH AND DEVELOPMENT
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330

RESEARCH FACILITIES
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

RESEARCH VEHICLES
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

RESERVOIRS
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

RESIDUAL STRESS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N92-23549
Method of characterizing residual stress in ferromagnetic materials using a pulse histogram of acoustic emission signals
[NASA-CASE-LAR-14239-1] c 26 N93-14705

RESILIENCE
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

RESIN BONDING
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

RESIN MATRIX COMPOSITES
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-2] c 27 N93-11059
Low toxicity high temperature PMR polyimide
[NASA-CASE-LAR-14639-1] c 27 N93-14709
Poly(1,2,4-triazole) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N93-18283

RESINS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014

RESISTANCE
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

RESISTANCE HEATING
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

RESISTANCE THERMOMETERS
Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614

RESISTORS
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

RESOLUTION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
New kinematic functions for redundancy resolution using configuration control
[NASA-CASE-NPO-18608-1-CU] c 63 N93-17275

RESOLVERS
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

RESONANCE
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

RESONANT FREQUENCIES
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174

RESONANT VIBRATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329

RESONATORS
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N93-18277

RESOURCE ALLOCATION
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

RESPIRATION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

RESPIRATORS
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

RESPIRATORY RATE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPIROMETERS
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPONSE TIME (COMPUTERS)
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

RESPONSES
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

RESTARTABLE ROCKET ENGINES
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

RESTORATION
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951

RESUSCITATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

RETAINING
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727

RETARDERS (DEVICES)
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

RETARDING
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

RETICLES
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

RETINA
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755

RETINAL IMAGES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

RETRACTABLE EQUIPMENT
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N92-23378
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N93-18286
Split rail gripper assembly and tool driver therefor
[NASA-CASE-GSC-13370-2] c 37 N93-18288

RETROFIRING
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

RETROREFLECTION
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N93-14703

RETROREFLECTORS
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

RETROROCKET ENGINES
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

RETURN TO EARTH SPACE FLIGHT
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

REUSABLE HEAT SHIELDING
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

REUSABLE ROCKET ENGINES
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

REUSABLE SPACECRAFT
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

REUSE
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323

REVERSE OSMOSIS
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

REVERSED FLOW
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

REYNOLDS NUMBER
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

REYNOLDS STRESS
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
RHENIUM
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
RHEOMETERS
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
RHOMBOIDS
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
RIBBONS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
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[NASA-CASE-NPO-13652-3] c 44 N80-14474
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[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
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[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
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ROCKET ENGINE DESIGN
Annular rocket motor and nozzle configuration Patent
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Diffuser/ejector system for a very high vacuum environment
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Ring-cusp ion thruster with shell anode
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Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
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Accelerometer method and apparatus for integral display and control functions
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ROCKET EXHAUST
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[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

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Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

ROCKET FLIGHT
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

ROCKET LAUNCHING
Alleviation of divergence during rocket launch Patent
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[NASA-CASE-XMF-01544] c 28 N70-34162
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[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
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[NASA-CASE-NPO-11458] c 28 N72-23810
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Hybrid plume plasma rocket
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Nozzle fabrication technique
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Thruster sealing system and apparatus
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[NASA-CASE-NPO-11975-1] c 28 N74-33209

ROCKET PROPELLANTS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

ROCKET TEST FACILITIES
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

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Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
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[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

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Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
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Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
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[NASA-CASE-XNP-09755] c 46 N74-23069
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[NASA-CASE-MFS-23725-1] c 43 N79-31706

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[NASA-CASE-LAR-13470-1] c 03 N88-14083
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N93-13417

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[NASA-CASE-GSC-10514-1] c 14 N72-20379

ROLLER BEARINGS
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
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[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728
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ROLLING
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031

ROLLING CONTACT LOADS
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

ROLLING MOMENTS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

ROOM TEMPERATURE
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N93-17278

ROTARY GYROSCOPES
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

ROTARY STABILITY
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

ROTARY WING AIRCRAFT
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

ROTARY WINGS
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

ROTATING BODIES
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952

ROTATING CYLINDERS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

ROTATING DISKS
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

ROTATING ELECTRICAL MACHINES
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828

ROTATING MIRRORS
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097

ROTATION
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
Helix translation device --- shim for precision displacements
[NASA-CASE-GSC-13141-1] c 37 N92-23548
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173

ROTOR AERODYNAMICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099
System and method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-1] c 34 N93-11172

RUBBER
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

RUBBER COATINGS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

RUPTURING
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

S

SABOT PROJECTILES
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
Valve lock
[NASA-CASE-MFS-29764-1] c 37 N93-19049

SAFETY FACTORS
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

SAHA EQUATIONS
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SAMPLES
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

SANDWICH STRUCTURES
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
Core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N93-14700
Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022

SAPPHIRE
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

SATELLITE ATTITUDE CONTROL
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

SATELLITE COMMUNICATION
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

SATELLITE CONTROL
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

SATELLITE DESIGN
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

SATELLITE INSTRUMENTS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

SATELLITE NETWORKS
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

SATELLITE OBSERVATION
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

SATELLITE ORBITS
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

SATELLITE ORIENTATION
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

SATELLITE PERTURBATION
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SATELLITE POWER TRANSMISSION
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388

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Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

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Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

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Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

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[NASA-CASE-NPO-13321-1] c 32 N75-26195

SATELLITE-BORNE INSTRUMENTS
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SATELLITE-BORNE PHOTOGRAPHY
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SATURABLE REACTORS
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

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Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

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Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
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[NASA-CASE-MSC-21469-1] c 37 N91-31655

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[NASA-CASE-XMS-01315] c 09 N70-41675

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Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
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[NASA-CASE-GSC-10299-1] c 09 N71-24804
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
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[NASA-CASE-NPO-11861-1] c 36 N74-20009
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
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[NASA-CASE-GSC-12032-2] c 43 N82-13465
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
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[NASA-CASE-NPO-15345-1] c 74 N84-23247
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[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

SCANNING
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
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[NASA-CASE-NPO-11337-1] c 74 N81-19896

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Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

SCENE ANALYSIS
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

SCHLIEREN PHOTOGRAPHY
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

SCHMIDT CAMERAS
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

SCHMIDT TELESCOPES
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

SCHOOLS
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

SCHOTTKY DIODES
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467

Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

SCIENTIFIC SATELLITES
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[NASA-CASE-GSC-13197-1] c 18 N91-27201

SCOOPS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

SCORING
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

SCRAMBLING (COMMUNICATION)
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SCREWS
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
Pressure wall patch
[NASA-CASE-MFS-28724-1] c 18 N93-17061

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High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
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[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

SEA ICE
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SEA STATES
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

SEA SURFACE TEMPERATURE
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SEALERS
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

SEALING
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N93-14702
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N93-14706

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Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
Check valve with poppet damping mechanism
[NASA-CASE-MSC-21903-1] c 37 N92-30101
Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N93-14702
High-temperature, bellows hybrid seal
[NASA-CASE-LEW-15570-1] c 37 N93-19027

SEAMS (JOINTS)
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

SEARCHING
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N93-18858

SEAT BELTS
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
Passive zero-gravity leg restraint
[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713
Portable seat lift
[NASA-CASE-MFS-28610-1] c 54 N93-17045

SECONDARY EMISSION
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

SECONDARY FLOW
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752

SECTORS
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEEDS
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

SEEPAGE
Flow rate logging seepage meter
[NASA-CASE-LAR-14835-1] c 35 N93-19328

SEGMENTS
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

SEISMIC WAVES
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

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Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTIVE SURFACES
Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391

SELECTORS
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ADAPTIVE CONTROL SYSTEMS
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

SELF ALIGNMENT
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

SELF ERECTING DEVICES
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

SELF FOCUSING
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

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Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

SEMICONDUCTING FILMS
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413

SEMICONDUCTOR DEVICES
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
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[NASA-CASE-MFS-23008-1] c 35 N78-18390
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[NASA-CASE-MFS-23315-1] c 76 N78-24950
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[NASA-CASE-NPO-14424-1] c 33 N80-32650
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[NASA-CASE-LAR-12363-2] c 33 N83-24763
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[NASA-CASE-GSC-12682-1] c 35 N84-33765
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Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413

SEMICONDUCTOR DIODES
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

SEMICONDUCTOR JUNCTIONS
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
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[NASA-CASE-LEW-14959-1] c 44 N91-27614

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[NASA-CASE-LEW-14795-1] c 74 N91-21871
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
Self-collimated unstable resonator semiconductor laser
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Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
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[NASA-CASE-XLE-02545-1] c 76 N79-21910
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
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[NASA-CASE-LAR-12958-1] c 44 N84-23019
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
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[NASA-CASE-LAR-12893-1] c 76 N85-30923
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
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Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Preparation of dilute magnetic semiconductor films by *metalorganic chemical vapor deposition*
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418
Epitaxial heterojunctions of oxide semiconductors and metals on high temperature superconductors
[NASA-CASE-NPO-18483-1-CU] c 76 N93-15151

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[NASA-CASE-ARC-10042-2] c 10 N72-11256
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Discrete optical fiber strain sensor
[NASA-CASE-LAR-14810-1-SB] c 35 N93-19492

SENSITOMETRY
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

SENSORS
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N92-23549
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-3] c 35 N93-14714
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[NASA-CASE-MSC-21922-1] c 35 N93-14841
Optical fiber strain sensor with improved linearity
[NASA-CASE-LAR-14857-1-SB] c 74 N93-19374
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

SENSORY PERCEPTION
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SEPARATED FLOW
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
Stall departure resistance enhancer
[NASA-CASE-LAR-14221-1] c 06 N93-19023

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Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611

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[NASA-CASE-XLA-08645] c 15 N69-21465
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Fluid separator
[NASA-CASE-MFS-28658-1] c 34 N93-17039

SEQUENCING
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

SEQUENTIAL ANALYSIS
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

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Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

SERVICE LIFE
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

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Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

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Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SERVOMECHANISMS
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
Controlling under-actuated robot arms using a high speed dynamics process
[NASA-CASE-NPO-18498-1-CU] c 37 N92-24043
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083

SERVOMOTORS
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

SEWAGE TREATMENT
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

SHADES
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

SHAFTS (MACHINE ELEMENTS)
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584
J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500
Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
Radial spline assembly for antifriction bearings
[NASA-CASE-MFS-28629-1] c 37 N93-17084

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Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

SHALE OIL
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

SHALES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SHAPE CONTROL
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

SHAPE MEMORY ALLOYS
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MSC-21940-1] c 37 N92-30540
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032
Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N93-13423

SHAPED CHARGES
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

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Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

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Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

SHARKS
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRENGTH
Sandwiched structural panel having a bi-directional core structure
[NASA-CASE-MFS-28796-1] c 24 N93-19022

SHEAR STRESS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231

SHEARING
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHEATHS
High-temperature, bellows hybrid seal
[NASA-CASE-LEW-15570-1] c 37 N93-19027

SHELL ANODES
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N93-14701

SHIFT REGISTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
SHIP HULLS
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
SHOCK ABSORBERS
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
Wheels for wheelchairs and the like
[NASA-CASE-MFS-28632-1] c 54 N93-17042
SHOCK LOADS
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
SHOCK MEASURING INSTRUMENTS
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
SHOCK RESISTANCE
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
SHOCK TUBES
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
SHOCK WAVE INTERACTION
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
SHOCK WAVE LUMINESCENCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
SHOCK WAVE PROFILES
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
SHOCK WAVES
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
SHOES
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
SHORT CIRCUITS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
SHOT PEENING
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
SHOULDERS
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
SHROUDED NOZZLES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
SHROUDED TURBINES
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
SHROUDS
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Bright light delivery system
[NASA-CASE-MFS-28723-1] c 52 N93-17058
SHUTTERS
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
SHUTTLE DERIVED VEHICLES
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
SIDE INLETS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
SIDEBANDS
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
SIDELOBE REDUCTION
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
SIGNAL ANALYSIS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
SIGNAL ANALYZERS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
SIGNAL DETECTION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N93-13419
SIGNAL DETECTORS
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
SIGNAL DISTORTION
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
SIGNAL ENCODING
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

SIGNAL GENERATORS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters .
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

SIGNAL MEASUREMENT
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

SIGNAL MIXING
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

SIGNAL PROCESSING
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
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[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-2-CU] c 61 N93-14882
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056
Acceleration recorder and playback module
[NASA-CASE-MSC-22008-1] c 35 N93-17077
Control system and method for prosthetic devices
[NASA-CASE-MSC-21941-1] c 54 N93-17087

SIGNAL RECEPTION
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

SIGNAL REFLECTION
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[NASA-CASE-XNP-10843] c 07 N71-11267
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

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Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

SIGNAL TRANSMISSION
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
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[NASA-CASE-XMF-01160] c 07 N71-11298
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
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[NASA-CASE-GSC-12075-1] c 32 N77-31350
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
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[NASA-CASE-KSC-11023-1] c 32 N79-23310
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

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[NASA-CASE-NPO-13691-1] c 43 N79-17288

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[NASA-CASE-XMF-04133] c 06 N71-20717
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

SILICA GEL
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

SILICA GLASS
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[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

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Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SILICIDES
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102

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Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
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[NASA-CASE-NPO-13918-1] c 76 N79-11920
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[NASA-CASE-NPO-14474-1] c 26 N80-14229
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[NASA-CASE-NPO-14382-1] c 31 N80-18231
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
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[NASA-CASE-NPO-14297-1] c 33 N81-19389
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
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[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898
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[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
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[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102

SILICON ALLOYS
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

SILICON CARBIDES
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
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[NASA-CASE-LEW-15223-1] c 76 N91-26967
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413

SILICON COMPOUNDS
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

SILICON CONTROLLED RECTIFIERS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

SILICON DIOXIDE
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

SILICON FILMS
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

SILICON JUNCTIONS
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

SILICON NITRIDES
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Sintering silicon nitride
[NASA-CASE-LEW-15489-1] c 27 N93-17062

SILICON OXIDES
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

SILICON POLYMERS
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160

SILICON RADIATION DETECTORS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765

SILICON TRANSISTORS
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SILICONE RESINS
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575

SILICONE RUBBER
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

SILICONES
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SILICONIZING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

SILOXANES
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

SILVER
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SILVER ALLOYS
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

SILVER CHLORIDES
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

SILVER COMPOUNDS
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

SILVER ZINC BATTERIES
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

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Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

SIMULATION
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
Synchronous parallel system for emulation and discrete event simulation
[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

SIMULATORS
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[NASA-CASE-MFS-12750] c 27 N71-16223
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

SIMULTANEOUS EQUATIONS
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

SINE SERIES
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

SINE WAVES
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

SINGLE CRYSTALS
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
Anode for rechargeable ambient temperature lithium cells
[NASA-CASE-NPO-18580-1-CU] c 33 N93-17278
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-3] c 76 N93-17413

SINGLE EVENT UPSETS
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

SINTERING
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Sintering silicon nitride
[NASA-CASE-LEW-15489-1] c 27 N93-17062

SIS (SUPERCONDUCTORS)
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

SITTING POSITION
Passive zero-gravity leg restraint
[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713
Portable seat lift
[NASA-CASE-MFS-28610-1] c 54 N93-17045

SIZE (DIMENSIONS)
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

SIZE DETERMINATION
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N93-18285

SIZE SEPARATION
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

SIZING (SHAPING)
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

SIZING SCREENS
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

SKEWNESS
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

SKID LANDINGS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

SKIN (ANATOMY)
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

SKIN (STRUCTURAL MEMBER)
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

SKIN FRICTION
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N93-18275

SKIN TEMPERATURE (BIOLOGY)
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780

SKIN TEMPERATURE (NON-BIOLOGICAL)
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

SKIRTS
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

SKY BRIGHTNESS
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

SLEEP
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

SLEEVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

SLENDER BODIES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

SLEWING
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031

SLICING
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

SLIDING
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177

SLIDING CONTACT
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

SLIDING FRICTION
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

SLIP CASTING
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

SLITS
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

SLOPES
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

SLOT ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SLOTS
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Radial spline assembly for antifriction bearings
[NASA-CASE-MFS-28629-1] c 37 N93-17084

SLUDGE
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

SLURRIES
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

SLURRY PROPELLANTS
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

SMOKE
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

SOAPS
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461

SODIUM CHLORIDES
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

SODIUM VAPOR
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

SOFT LANDING
Non-reusuable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

SOFT LANDING SPACECRAFT
Pivotal shock-absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

SOFTWARE ENGINEERING
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

SOFTWARE REUSE
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

SOFTWARE TOOLS
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

SOIL MECHANICS
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

SOIL MOISTURE
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

SOIL SCIENCE
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054

SOILS
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054

SOL-GEL PROCESSES
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SOLAR ACTIVITY
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

SOLAR ARRAYS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

SOLAR BLANKETS
Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

SOLAR CELLS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463

SOLAR COLLECTORS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Thermally activated foaming compositions Patent
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Solar cell shingle
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Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Low cost solar energy collection system
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Selective coating for solar panels --- using black chrome and black nickel
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Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Non-tracking solar energy collector system
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Solar cells having integral collector grids
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[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell collector and method for producing same
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Horizontally mounted solar collector
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Primary reflector for solar energy collection systems and method of making same
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Solar energy collection system
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Solar energy receiver for a Stirling engine
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[NASA-CASE-NPO-15662-1] c 44 N84-28204
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
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Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

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[NASA-CASE-NPO-11771] c 03 N73-20040
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
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Method for making an aluminum or copper substrate panel for selective absorption of solar energy
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[NASA-CASE-NPO-13579-4] c 44 N79-14529
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[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
Solar thermal energy receiver
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SOLAR ENERGY ABSORBERS
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Solar energy trap
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Solar cell shingle
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Aluminium or copper substrate panel for selective absorption of solar energy
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SOLAR ENERGY CONVERSION
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High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
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[NASA-CASE-GSC-12022-2] c 44 N78-24609
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[NASA-CASE-NPO-14126-1] c 44 N79-11470
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar energy control system --- temperature measurement
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Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Solar driven liquid metal MHD power generator
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Photoelectrochemical electrodes
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[NASA-CASE-LAR-12870-1] c 36 N84-16542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
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Solar energy modulator
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SOLAR FURNACES
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SOLAR GENERATORS
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

SOLAR GRAVITATION
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

SOLAR HEATING
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
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Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
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[NASA-CASE-NPO-15071-1] c 44 N82-16475
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SOLAR OBSERVATORIES
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

SOLAR PONDS (HEAT STORAGE)
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Saltless solar pond
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SOLAR POSITION
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

SOLAR POWERED AIRCRAFT
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

SOLAR RADIATION
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-36675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

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High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

SOLAR RADIO EMISSION
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

SOLAR REFLECTORS
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
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SOLAR SAILS
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SOLAR SENSORS
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

SOLAR SIMULATORS
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

SOLAR-PUMPED LASERS
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

SOLDERED JOINTS
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

SOLDERING
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094

SOLDERS
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

SOLENOID VALVES
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[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SOLENOIDS
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

SOLID CRYOGEN COOLING
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLID ELECTRODES
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

SOLID ELECTROLYTES
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

SOLID LUBRICANTS
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

SOLID PHASES
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

SOLID PROPELLANT IGNITION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SOLID PROPELLANT ROCKET ENGINES
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SOLID PROPELLANTS
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

SOLID ROCKET BINDERS
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID ROCKET PROPELLANTS
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID STATE
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

SOLID STATE DEVICES
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

SOLID STATE LASERS
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

SOLID SURFACES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

SOLID WASTES
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

SOLID-SOLID INTERFACES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

SOLIDIFICATION
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

SOLIDIFIED GASES
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLIDS FLOW
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

SOLUBILITY
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
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[NASA-CASE-LAR-11173-1] c 35 N75-19614
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[NASA-CASE-NPO-15334-1] c 71 N83-35781
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[NASA-CASE-LAR-14581-1-SB] c 38 N93-12204
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SOUNDING ROCKETS
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[NASA-CASE-XGS-01654] c 31 N71-24750
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[NASA-CASE-GSC-10590-1] c 31 N73-14853

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[NASA-CASE-MSC-21562-1] c 16 N92-16007
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[NASA-CASE-XMS-01554] c 10 N71-10578
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Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
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[NASA-CASE-XGS-00783] c 30 N71-17788
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[NASA-CASE-XMF-07488] c 11 N71-18773
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[NASA-CASE-KSC-10198] c 11 N71-28629
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[NASA-CASE-MFS-25791-1] c 09 N84-27749
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[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

SPACE ERECTABLE STRUCTURES
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[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
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[NASA-CASE-XMF-00437] c 07 N70-40202
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
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[NASA-CASE-MFS-20410] c 15 N71-19214
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Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
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[NASA-CASE-MFS-23579-1] c 18 N79-11108
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[NASA-CASE-LAR-12195-1] c 31 N81-27324
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[NASA-CASE-LAR-13798-1] c 32 N89-25363
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[NASA-CASE-LAR-14465-1] c 37 N91-14614
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[NASA-CASE-LAR-13898-1] c 37 N91-15544
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[NASA-CASE-MSC-21864-1] c 37 N92-23544

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[NASA-CASE-NPO-11366] c 11 N73-26238

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[NASA-CASE-XMS-09632-1] c 05 N71-11203
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[NASA-CASE-XFR-03107] c 09 N71-19449
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[NASA-CASE-MSC-21589-1] c 54 N92-29137

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SPACE LABORATORIES
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[NASA-CASE-MFS-20325] c 28 N71-27095
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[NASA-CASE-LAR-12881-1] c 27 N84-14323
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SPACE MANUFACTURING
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[NASA-CASE-NPO-13263-1] c 12 N75-24774
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[NASA-CASE-MSC-12611-1] c 12 N76-15189
Apparatus for assembling space structure
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[NASA-CASE-XAC-08494] c 30 N71-15990
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[NASA-CASE-XAC-06029-1] c 31 N71-24813
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[NASA-CASE-MSC-12391] c 30 N73-12884

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Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
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[NASA-CASE-NPO-11481] c 21 N73-13644
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[NASA-CASE-LAR-13393-1] c 54 N87-29118
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SPACE PROCESSING
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[NASA-CASE-MFS-25707-1] c 35 N82-26631
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[NASA-CASE-MFS-25963-1] c 35 N86-20750
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[NASA-CASE-MSC-20761-1] c 37 N87-15465
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
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[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
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[NASA-CASE-MSC-21361-1] c 51 N91-21701
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[NASA-CASE-GSC-13197-1] c 18 N91-27201

SPACE RENDEZVOUS
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[NASA-CASE-MFS-11133] c 31 N71-16222
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[NASA-CASE-MSC-18969-1] c 18 N84-22605
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SPACE SHUTTLE BOOSTERS
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACE SHUTTLE MAIN ENGINE
Shuttle orbiter with telescoping main propulsion unit and payload
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[NASA-CASE-MSC-18422-1] c 37 N82-16408
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[NASA-CASE-MSC-20304-1] c 37 N82-31690
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
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[NASA-CASE-LAR-12881-1] c 27 N84-14323
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[NASA-CASE-MSC-20254-1] c 16 N84-22601
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[NASA-CASE-MFS-25853-1] c 16 N84-27784
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[NASA-CASE-LAR-12862-1] c 27 N84-27886
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
Extra-vehicular activity translation tool
[NASA-CASE-MSC-21955-1] c 37 N93-14842

SPACE SHUTTLE PAYLOADS
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
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[NASA-CASE-MSC-20676-1] c 18 N86-24729
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[NASA-CASE-MSC-21330-1] c 16 N88-24660

SPACE SHUTTLES
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[NASA-CASE-XAC-02058] c 02 N71-16087
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[NASA-CASE-MSC-12391] c 30 N73-12884
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
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[NASA-CASE-LEW-11179-1] c 27 N76-16229
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[NASA-CASE-GSC-12429-1] c 37 N81-14320
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[NASA-CASE-KSC-11085-1] c 54 N81-24724
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[NASA-CASE-NPO-14521-1] c 37 N81-27519
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
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[NASA-CASE-MFS-25837-1] c 18 N85-29991
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
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[NASA-CASE-MSC-21132-1] c 37 N88-29181

Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
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[NASA-CASE-MSC-21332-1] c 03 N91-15142

SPACE SIMULATORS
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[NASA-CASE-XNP-00459] c 11 N70-38675
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

SPACE STATION STRUCTURES
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
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[NASA-CASE-MSC-21504-1] c 18 N91-21221

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[NASA-CASE-XLA-00258] c 31 N70-38676
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
Space station trash removal system
[NASA-CASE-MSC-21723-1] c 18 N92-30315
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010
Automatic system for installation and replacement of Space Station components
[NASA-CASE-LEW-14906-1] c 37 N93-12203

SPACE STORAGE
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPACE SUITS
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
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[NASA-CASE-MSC-12109] c 18 N71-26285
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
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[NASA-CASE-ARC-11635-1] c 18 N90-16860
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

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Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150
Extra-vehicular activity translation tool
[NASA-CASE-MSC-21955-1] c 37 N93-14842
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N93-18286
Split rail gripper assembly and tool driver therefor
[NASA-CASE-GSC-13370-2] c 37 N93-18288

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Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

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Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
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[NASA-CASE-XKS-08012-2] c 31 N71-15566
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

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Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

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Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

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Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

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[NASA-CASE-XGS-01475] c 03 N71-11058
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
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[NASA-CASE-MFS-15429-1] c 18 N84-22609

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Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
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[NASA-CASE-LAR-10163-1] c 09 N72-25247
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[NASA-CASE-NPO-11361] c 07 N72-32169
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

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Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Regenerable device for scrubbing breathable air of CO_2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

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[NASA-CASE-XGS-05918] c 07 N69-39974
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
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[NASA-CASE-XKS-09340] c 07 N71-24614
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
Reed-Solomon decoder
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[NASA-CASE-MFS-14741] c 09 N70-20737
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Redundant actuating mechanism Patent
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Space simulator Patent
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Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377

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Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
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[NASA-CASE-MFS-25853-1] c 16 N84-27784
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SPACECRAFT CONSTRUCTION MATERIALS
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

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Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
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[NASA-CASE-XLA-00898] c 02 N70-36804
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
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[NASA-CASE-XMS-04142] c 31 N70-41631
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[NASA-CASE-XNP-01307] c 21 N70-41856
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[NASA-CASE-XLA-05464] c 21 N71-14132
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[NASA-CASE-XGS-03431] c 21 N71-15642
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

SPACECRAFT DESIGN
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Docking structure for spacecraft Patent
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Spacecraft Patent
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Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

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Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
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[NASA-CASE-MSC-12559-1] c 18 N76-14186
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[NASA-CASE-MFS-20855-1] c 15 N77-10112
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
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[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
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[NASA-CASE-ARC-11505-1] c 18 N84-22612
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Docking system for spacecraft
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Docking mechanism for spacecraft
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Smart tunnel: Docking mechanism
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Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
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[NASA-CASE-MSC-21748-1] c 37 N92-21727
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750

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Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
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[NASA-CASE-XMS-04312] c 07 N71-22984
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[NASA-CASE-MFS-25211-2] c 33 N84-14423
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
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Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
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[NASA-CASE-MSC-21166-1] c 35 N87-25555
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
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[NASA-CASE-MFS-28217-1] c 34 N89-14392
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Two fault tolerant toggle-hook release
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Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
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[NASA-CASE-NPO-14361-1] c 32 N82-23376

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[NASA-CASE-XNP-00614] c 14 N70-36907
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Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
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[NASA-CASE-XMS-02184] c 15 N71-20813
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
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[NASA-CASE-NPO-11417] c 15 N73-24513
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[NASA-CASE-GSC-12219-1] c 35 N80-18359
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Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Optical system
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Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

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Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
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[NASA-CASE-XLA-00838] c 03 N70-36778
Discrete local altitude sensing device Patent
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Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

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Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

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Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244

SPACECRAFT MOTION
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

SPACECRAFT POSITION INDICATORS
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640

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Space vehicle electrical system Patent
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Ionospheric battery Patent
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Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

SPACECRAFT PROPULSION
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SPACECRAFT RADIATORS
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

SPACECRAFT RECOVERY
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

SPACECRAFT REENTRY
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

SPACECRAFT SHIELDING
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N92-30539

SPACECRAFT STABILITY
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

SPACECRAFT STRUCTURES
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

SPACECRAFT TELEVISION
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865

SPACECRAFT TEMPERATURE
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

SPACECRAFT TRACKING
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

SPACECREWS
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

SPACELAB PAYLOADS
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

SPARKS
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

SPATIAL DISTRIBUTION
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

SPATIAL RESOLUTION
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

SPECIMENS
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

SPECTRAL BANDS
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

SPECTRAL CORRELATION
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

SPECTRAL SIGNATURES
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SPECTROMETERS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

SPECTROPHOTOMETERS
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867

SPECTRORADIOMETERS
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

SPECTROSCOPIC ANALYSIS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N93-18856

SPECTROSCOPIC TELESCOPES
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

SPECTROSCOPY
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117

SPECTRUM ANALYSIS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788

SPECULAR REFLECTION
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

SPEECH BASEBAND COMPRESSION
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

SPEECH RECOGNITION
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SPEED CONTROL
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

SPEED INDICATORS
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

SPEED REGULATORS
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

SPENT FUELS
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

SPHERES
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026

SPHERICAL SHELLS
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

SPHERICAL TANKS
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

SPHERICAL WAVES
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

SPHEROIDS
Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052

SPHYGMOGRAPHY
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

SPIKE NOZZLES
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

SPIKE POTENTIALS
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

SPILLING
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

SPIN DYNAMICS
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

SPIN REDUCTION
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SPIN STABILIZATION
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SPINDLES
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031

SPINE
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

SPIRAL ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPIRAL WRAPPING
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

SPIRALS (CONCENTRATORS)
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Fluid separator
[NASA-CASE-MFS-28658-1] c 34 N93-17039

SPIROMETERS
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

SPLICING
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162

SPLINES
Radial spline assembly for antifriction bearings
[NASA-CASE-MFS-28629-1] c 37 N93-17084

SPLINTS
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

SPOILERS
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

SPOKES
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

SPORES
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

SPOT WELDS
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

SPRAY CHARACTERISTICS
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

SPRAY NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

SPRAYED COATINGS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

SPRAYERS
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123

SPRAYING
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SPREAD SPECTRUM TRANSMISSION
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

SPREADING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

SPRINGS (ELASTIC)
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
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[NASA-CASE-LAR-11551-1] c 44 N80-29834
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Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
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[NASA-CASE-LEW-12919-2] c 70 N84-28565
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[NASA-CASE-LEW-13837-2] c 24 N85-21267
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[NASA-CASE-MSC-20036-1] c 76 N85-33826
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[NASA-CASE-LEW-14130-1] c 31 N86-32587
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[NASA-CASE-LEW-13899-1] c 31 N87-21160

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[NASA-CASE-XNP-01306-2] c 09 N71-24596

SQUARES (MATHEMATICS)
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

SQUEEZE FILMS
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[NASA-CASE-XGS-01971] c 15 N71-15922

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[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
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[NASA-CASE-LEW-15489-1] c 27 N93-17062
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[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277

STABILITY AUGMENTATION
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[NASA-CASE-LAR-12787-2] c 08 N85-19985
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[NASA-CASE-MFS-21455-1] c 35 N74-15146
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[NASA-CASE-GSC-11077-1] c 02 N73-13008
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[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
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[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
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[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499
STABILIZED PLATFORMS
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[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
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[NASA-CASE-ARC-10981-1] c 37 N78-27425
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
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Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
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[NASA-CASE-NPO-12000] c 27 N72-25699
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Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
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Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
STACKS
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
STAGE SEPARATION
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
STAGNATION PRESSURE
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
STAGNATION TEMPERATURE
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
STAINING
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
STAINLESS STEELS
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
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[NASA-CASE-LEW-12619-1] c 24 N77-19171
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612
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Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
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[NASA-CASE-LAR-13153-1] c 71 N86-21276
STANDARD DEVIATION
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
STANDARDS
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
STANDING WAVES
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
STAR TRACKERS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
STARK EFFECT
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
STARTERS
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
STARTING
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
STATIC DEFORMATION
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
STATIC DISCHARGERS
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
STATIC FRICTION
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
STATIC INVERTERS
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
STATIC LOADS
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
STATIC PRESSURE
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
STATIONKEEPING
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
STATISTICAL ANALYSIS
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
STATISTICAL CORRELATION
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
STATOR BLADES
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
STATORS
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

STEADY STATE
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

STEAM
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

STEAM TURBINES
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

STEELS
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

STEERABLE ANTENNAS
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

STEERING
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750

STELLAR LUMINOSITY
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STELLAR SPECTRA
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STENCIL PROCESSES
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

STEREOPHOTOGRAPHY
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

STEREOSCOPIC VISION
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N93-18276

STEREOSCOPY
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STILBENE
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

STIMULATED EMISSION
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRLING ENGINES
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143

STIRRING
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

STOICHIOMETRY
Sulfone-ester polymers containing pendent ethynl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
The 5-(4-Ethynylophenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014

STOPPING
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

STORAGE
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753
Overcharge and overdischarge protection of ambient temperature secondary lithium cells
[NASA-CASE-NPO-18343-1-CU] c 33 N93-11456

STORAGE STABILITY
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS
Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

STOWAGE (ONBOARD EQUIPMENT)
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Locking hinge
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Expandable pallet for space station interface attachments
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STRAIN DISTRIBUTION
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

STRAIN GAGE ACCELEROMETERS
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

STRAIN GAGES
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945

Strain gauge ambiguity sensor for segmented mirror active optical system
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Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
Compensated high temperature strain gage
[NASA-CASE-LAR-14776-1] c 35 N93-12205

STRAIN MEASUREMENT
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Optical fiber strain sensor with improved linearity
[NASA-CASE-LAR-14857-1-SB] c 74 N93-19374
Discrete optical fiber strain sensor
[NASA-CASE-LAR-14810-1-SB] c 35 N93-19492

STRAIN RATE
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Discrete optical fiber strain sensor
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STRAKES
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[NASA-CASE-LAR-13233-1] c 05 N84-33400
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
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[NASA-CASE-LAR-13983-1] c 05 N90-23390
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[NASA-CASE-LAR-14219-1] c 08 N92-30025

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Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

STRAPDOWN INERTIAL GUIDANCE
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

STRAPS
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

STRATIGRAPHY
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

STREAMS
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

STRESS ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N92-23549
Method of characterizing residual stress in ferromagnetic materials using a pulse histogram of acoustic emission signals
[NASA-CASE-LAR-14239-1] c 26 N93-14705

STRESS CONCENTRATION
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

STRESS CORROSION
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

STRESS DISTRIBUTION
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317

STRESS MEASUREMENT
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
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[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STRESS RELAXATION
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12492-1] c 24 N81-17170

STRESS RELIEVING
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

STRESS WAVES
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154

STRESSES
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

STRETCHERS
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

STRETCHING
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

STRINGERS
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

STRINGS
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

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Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

STROBOSCOPES
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

STRONTIUM OXIDES
Silicon carbide fiber reinforced strontium aluminosilicate glass-ceramic matrix composite
[NASA-CASE-LEW-15263-1] c 24 N93-11543

STRUCTURAL ANALYSIS
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

STRUCTURAL DESIGN
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

STRUCTURAL DESIGN CRITERIA
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

STRUCTURAL ENGINEERING
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

STRUCTURAL FAILURE
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

STRUCTURAL MEMBERS
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
Slip joint connector
[NASA-CASE-MFS-28659-1] c 37 N93-17080

STRUCTURAL STABILITY
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

STRUCTURAL VIBRATION
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Method and apparatus for minimizing multiple degree of freedom vibration transmission between two regions of a structure
[NASA-CASE-LAR-14508-1-CU] c 39 N93-13420

STRUCTURES
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681

STRUTS
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

STUDS (STRUCTURAL MEMBERS)
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

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Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
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[NASA-CASE-NPO-16103-1] c 27 N85-29043

SUBASSEMBLIES
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Backward assembly planning with DFA analysis
[NASA-CASE-NPO-18817-1-CU] c 31 N93-12202

SUBCRITICAL FLOW
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUBLIMATION
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

SUBMARINES
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

SUBMERGING
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

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Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

SUBMINIATURIZATION
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

SUBREFLECTORS
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391

SUBSONIC SPEED
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

SUBSONIC WIND TUNNELS
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246

SUBSTRATES
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389
Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912
Compensated high temperature strain gage
[NASA-CASE-LAR-14776-1] c 35 N93-12205
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N93-14706
Process for applying a superconductive powder to a wide variety of substrates
[NASA-CASE-LAR-14729-1-CU] c 33 N93-19051
Oxidation resistant overlay coatings for low expansion substrates
[NASA-CASE-LEW-15154-1] c 27 N93-19332

SUBSTRUCTURES
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

SUCTION
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

SUGARS
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

SULFATES
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

SULFIDES
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

SULFONES
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

SULFONIC ACID
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

SULFUR COMPOUNDS
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

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Stack plume visualization system
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[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246
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[NASA-CASE-XLE-02824] c 03 N69-39890
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[NASA-CASE-XGS-10518] c 16 N71-28554
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[NASA-CASE-XNP-06503] c 23 N71-29049
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[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
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[NASA-CASE-XLE-02823] c 09 N71-23443
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[NASA-CASE-XNP-01185] c 26 N73-28710
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[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
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[NASA-CASE-LEW-14676-1] c 33 N91-31529
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[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
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[NASA-CASE-XMF-01099] c 14 N71-15969
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[NASA-CASE-LEW-11726-1] c 26 N73-26752
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Low cost, formable, high T(sub c) superconducting wire
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SUPERCOOLING
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
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Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
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[NASA-CASE-NPO-13346-1] c 36 N76-29575
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[NASA-CASE-MFS-23167-1] c 44 N76-31667
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[NASA-CASE-NPO-14519-1] c 32 N80-23524
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Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
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[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
INAS hole-immobilized doping superlattice long-wave-infrared detector
[NASA-CASE-NPO-17880-1-CU] c 76 N93-11056
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[NASA-CASE-FRC-11026-1] c 24 N82-24296
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[NASA-CASE-MFS-28473-1] c 76 N93-14707
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[NASA-CASE-XLA-00230] c 02 N70-33255
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[NASA-CASE-XLA-00350] c 02 N70-38011
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[NASA-CASE-XLA-03659] c 02 N71-11041
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[NASA-CASE-XLA-08801-1] c 02 N71-11043
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[NASA-CASE-XLA-04451] c 02 N71-12243
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
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Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
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[NASA-CASE-LAR-12264-1] c 15 N78-32168
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[NASA-CASE-XLE-00222] c 02 N70-37939
SUPERSONIC FLIGHT
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
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[NASA-CASE-XLA-08967] c 02 N71-27088
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Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
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[NASA-CASE-LAR-13777-1] c 05 N90-20078
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[NASA-CASE-LAR-14470-1] c 02 N93-11876
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Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
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[NASA-CASE-LEW-11915-1] c 35 N76-14431
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[NASA-CASE-LAR-12264-1] c 15 N78-32168
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Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
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Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
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[NASA-CASE-XLE-00005] c 28 N70-39899
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[NASA-CASE-XAC-01677] c 09 N71-20816
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[NASA-CASE-ARC-10977-1] c 07 N80-32392
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[NASA-CASE-XLA-01354] c 25 N70-36946
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[NASA-CASE-LAR-11552-1] c 35 N76-14429
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Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
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[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
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[NASA-CASE-LAR-10135-1] c 09 N79-21083
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[NASA-CASE-LAR-13780-1] c 18 N92-33013
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Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
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[NASA-CASE-XMF-03248] c 11 N71-10604
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
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A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
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[NASA-CASE-XMF-07808] c 15 N71-23812

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
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[NASA-CASE-XLA-09346] c 15 N71-28740
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
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[NASA-CASE-MFS-20249] c 15 N72-11386
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
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[NASA-CASE-MSC-16270-1] c 37 N78-27423
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[NASA-CASE-LAR-11821-1] c 26 N80-28492
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[NASA-CASE-GSC-12082-2] c 52 N81-25661
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[NASA-CASE-LAR-12950-1] c 09 N84-34448
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[NASA-CASE-GSC-12789-1] c 35 N85-20294
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
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[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
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[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
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[NASA-CASE-LAR-13696-1] c 37 N90-20409
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[NASA-CASE-MFS-28345-1] c 37 N91-14608
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[NASA-CASE-LEW-14862-1] c 37 N91-14617
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097

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Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056

SURFACE ACOUSTIC WAVE DEVICES
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

SURFACE CRACKS
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SURFACE DEFECTS
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

SURFACE DIFFUSION
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

SURFACE DISTORTION
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

SURFACE EMITTING LASERS
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418

SURFACE FINISHING
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N92-33009

SURFACE GEOMETRY
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

SURFACE IONIZATION
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SURFACE LAYERS
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423

SURFACE PROPERTIES
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397

SURFACE REACTIONS
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

SURFACE ROUGHNESS
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N93-17060

SURFACE TREATMENT
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399

SURFACE VEHICLES
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
A method for surmounting an obstacle by a robot vehicle
[NASA-CASE-NPO-18764-1-CU] c 37 N93-17272

SURFACE WAVES
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

SURFACES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840

SURGES
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032

SURVIVAL EQUIPMENT
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

SUSPENSION SYSTEMS (VEHICLES)
Suspension system for a wheel rolling on a flat track — bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SWEAT
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Acoustically swept rotor — helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

SWELLING
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEPT FORWARD WINGS
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

SWEPT WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729
Boundary layer relaminarization device
[NASA-CASE-LAR-14470-1] c 02 N93-11876

SWIRLING
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

SWITCHES
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571
Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278

SWITCHING
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

SWITCHING CIRCUITS
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

SWITCHING THEORY
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

SYMBOLS
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

SYNCHRONISM
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

SYNCHRONIZED OSCILLATORS
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

SYNCHRONIZERS
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

SYNCHRONOUS MOTORS
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

SYNCHRONOUS SATELLITES
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

SYNTHESIS
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

SYNTHESIS (CHEMISTRY)
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
The 5-(4-Ethynylophenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N92-33009
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206
Substituted 1,1,1-triaryl 2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-7] c 23 N93-17412
Poly(1,2,4-triazole) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N93-18283
High temperature polymer from maleimide-acetylene *terminated monomers*
[NASA-CASE-LAR-14475-1] c 27 N93-19327
Crosslinked polyimides prepared from N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14774-1] c 27 N93-19388

SYNTHESIZERS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

SYNTHETIC APERTURE RADAR
Surface roughness measuring system --- synthetic *aperture radar measurements of ocean wave height and* terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Real-time multiple-look synthetic aperture radar *processor for spacecraft applications*
[NASA-CASE-NPO-14054-1] c 32 N82-12297
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[NASA-CASE-NPO-14035-1] c 32 N83-19968
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[NASA-CASE-NPO-14525-2] c 32 N83-31918
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
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[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
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[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
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[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
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[NASA-CASE-GSC-13212-1] c 43 N91-32546

SYNTHETIC FIBERS
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Fluid impervious barrier including liquid metal alloy and method of making same Patent
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Polymeric electrolytic hygrometer
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[NASA-CASE-NPO-13530-1] c 25 N81-17187
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[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
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SYSTEM FAILURES
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[NASA-CASE-XGS-08259] c 14 N71-23698
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[NASA-CASE-MSC-12531-1] c 35 N75-30504
Apparatus for sensor failure detection and correction in a gas turbine engine control system
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[NASA-CASE-XNP-07481] c 25 N69-21929
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[NASA-CASE-MSC-12111-1] c 02 N71-11039
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[NASA-CASE-XNP-06506] c 03 N71-11050
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
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[NASA-CASE-NPO-10539] c 07 N71-11285
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[NASA-CASE-XLA-02079] c 12 N71-16894
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[NASA-CASE-XGS-02612] c 08 N71-19435
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[NASA-CASE-XMS-09571] c 05 N71-19439
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
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[NASA-CASE-XMS-02009] c 33 N71-20834
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[NASA-CASE-XGS-03501] c 09 N71-20864
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[NASA-CASE-XLA-03660] c 15 N71-21060
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[NASA-CASE-XMF-01083] c 15 N71-22723
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[NASA-CASE-XLA-02050] c 31 N71-22968
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[NASA-CASE-XNP-01747] c 15 N71-23024
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[NASA-CASE-XNP-08877] c 15 N71-23025
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
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[NASA-CASE-XMS-02930] c 11 N71-23042
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
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[NASA-CASE-XKS-06167] c 08 N71-24890
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[NASA-CASE-XNP-09759] c 08 N71-24891
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[NASA-CASE-MFS-20385] c 09 N71-24904
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[NASA-CASE-XMS-10660-1] c 15 N71-25975
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[NASA-CASE-XKS-05932] c 09 N71-26787
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[NASA-CASE-MFS-20240] c 14 N71-26788
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
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Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
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[NASA-CASE-NPO-11311] c 14 N72-25414
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[NASA-CASE-MSC-13397-1] c 21 N72-25595
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[NASA-CASE-NPO-13086-1] c 15 N73-12495
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[NASA-CASE-LAR-10910-1] c 35 N74-13132
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[NASA-CASE-MFS-21372-1] c 74 N74-27866
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Compact pulsed laser having improved heat conductance
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[NASA-CASE-MFS-23564-1] c 15 N78-25119
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[NASA-CASE-NPO-13813-1] c 44 N78-31526
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[NASA-CASE-MFS-23726-1] c 43 N79-26439
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
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[NASA-CASE-KSC-11085-1] c 54 N81-24724
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[NASA-CASE-LAR-13257-1] c 25 N84-32447
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[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

SYSTOLIC ARRAYS
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[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
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[NASA-CASE-ARC-11444-1] c 05 N85-29947
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

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[NASA-CASE-XMS-02399] c 05 N71-22896
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

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Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

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Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

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Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

TANGENTS
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[NASA-CASE-MSC-13907-1] c 10 N73-26230

TANK GEOMETRY
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[NASA-CASE-XMF-01899] c 31 N70-41948

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[NASA-CASE-MSC-20543-1] c 18 N84-22610

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[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

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[NASA-CASE-MSC-12280] c 27 N71-16348
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
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TANTALUM
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

TANTALUM ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182

TANTALUM CARBIDES
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

TANTALUM OXIDES
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

TAPE RECORDERS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

TAPERED COLUMNS
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[NASA-CASE-XLE-00409] c 28 N71-15658
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[NASA-CASE-XLE-05689] c 28 N71-15659

TAPERING
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[NASA-CASE-MSC-21082-1] c 27 N87-29672

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High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

TARGET ACQUISITION
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

TARGET RECOGNITION
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

TARGET SIMULATORS
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TARGETS
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

TECHNOLOGY UTILIZATION
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

TECTONICS
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

TEETH
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

TEFLON (TRADEMARK)
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

TELECOMMUNICATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

TELEMETRY
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

TELEOPERATORS
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
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[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
Operator-tailored adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N93-17273
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

TELEPHONES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

TELEPHONY
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELEROBOTICS
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Operator-tailored adjustable control station with movable monitors and cameras for viewing systems in robotics and teleoperations
[NASA-CASE-NPO-17837-1-CU] c 74 N93-17273
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

TELESCOPES
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

TELETYPEWRITER SYSTEMS
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

TELEVISION EQUIPMENT
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Color television systems using a single gun color cathode *ray tube Patent*
[NASA-CASE-ERC-10098] c 09 N71-28618
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Large area projection liquid-crystal video display system with inherent grid pattern optically removed
[NASA-CASE-NPO-16932-2-CU] c 74 N93-13711
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

TELEVISION TRANSMISSION
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

TELLURIUM
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION
Temperature compensated solid state differential *amplifier Patent*
[NASA-CASE-XAC-00435] c 09 N70-35440
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

TEMPERATURE DISTRIBUTION

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
Method of remotely characterizing thermal properties of a sample
[NASA-CASE-LAR-13508-3-CU] c 09 N93-11057

TEMPERATURE EFFECTS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
Compensated high temperature strain gage
[NASA-CASE-LAR-14776-1] c 35 N93-12205
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N93-13416

TEMPERATURE GRADIENTS

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT

Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
Method and apparatus for thermographically and quantitatively analyzing a structure for disbonds and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614
Method of remotely characterizing thermal properties of a sample
[NASA-CASE-LAR-13508-3-CU] c 09 N93-11057
Multiwavelength pyrometer for gray and non-gray surfaces in the presence of interfering radiation
[NASA-CASE-LEW-15250-1] c 35 N93-17060

TEMPERATURE MEASURING INSTRUMENTS

Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROBES

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROFILES

Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

TEMPERATURE SENSORS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Ultra-high temperature stability Joule-Thomson cooler with capability to accomodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

TEMPERING

Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239

TEMPLATES

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

TENSILE PROPERTIES

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

TENSILE STRENGTH

Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

TENSILE STRESS
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017

TENSILE TESTS
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
Method and apparatus for gripping test specimens
[NASA-CASE-LEW-15345-1] c 37 N93-12327

TENSION
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

TENSORS
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

TERMINAL GUIDANCE
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

TERNARY SYSTEMS
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

TERRAIN
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

TERRAIN ANALYSIS
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

TEST CHAMBERS
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

TEST EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Validation device for spacecraft checkout equipment Patent
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[NASA-CASE-XNP-01310] c 33 N71-28852
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[NASA-CASE-XLE-02024] c 14 N71-22964
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[NASA-CASE-XLE-01015] c 03 N69-39898
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[NASA-CASE-NPO-10404] c 03 N71-12255
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[NASA-CASE-XNP-00384] c 09 N71-13530
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[NASA-CASE-XLE-09475-1] c 33 N71-15568
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[NASA-CASE-FRC-10112-1] c 35 N81-26431
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[NASA-CASE-LEW-10436-1] c 17 N73-32415
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Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
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[NASA-CASE-XLE-01645] c 03 N71-20904
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[NASA-CASE-XAC-00812] c 14 N71-15598
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[NASA-CASE-XNP-06957] c 14 N71-21088
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[NASA-CASE-NPO-08835-1] c 27 N78-33228
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[NASA-CASE-LEW-13171-1] c 44 N82-29708
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[NASA-CASE-LAR-12838-1] c 27 N83-34040
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[NASA-CASE-LAR-14459-1] c 24 N91-15334
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[NASA-CASE-XMS-10269] c 05 N71-24147

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[NASA-CASE-XLA-01262] c 15 N71-21404
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[NASA-CASE-XMF-01402] c 18 N71-21651
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[NASA-CASE-XNP-00463] c 33 N70-36847
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Thermostatically controlled non-tracking type solar energy concentrator
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Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
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[NASA-CASE-XLE-00808] c 24 N71-10560
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[NASA-CASE-XMF-01667] c 15 N71-17647
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[NASA-CASE-XNP-01328] c 26 N71-18064
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[NASA-CASE-GSC-10097-1] c 08 N71-27210
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[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
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[NASA-CASE-LEW-14474-2] c 27 N92-11186
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[NASA-CASE-LAR-14654-1] c 39 N92-30317
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[NASA-CASE-NPO-18551-1-CU] c 33 N93-17277
Multiple layer dielectrics, hot film sensors, and methods of producing same
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[NASA-CASE-NPO-13506-1] c 35 N76-15435
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290
High speed thin plate fatigue crack monitor
[NASA-CASE-LAR-14816-1-SB] c 39 N93-19329

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Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
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[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

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[NASA-CASE-XLE-00144] c 28 N70-34860
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[NASA-CASE-NPO-10064] c 15 N71-17693
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[NASA-CASE-LAR-10546-1] c 11 N72-25287
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[NASA-CASE-MFS-14216] c 14 N73-13418
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
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[NASA-CASE-LAR-10409-1] c 31 N74-21059

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[NASA-CASE-XMF-04966] c 14 N71-17658
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[NASA-CASE-XFR-05302] c 15 N71-23254
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[NASA-CASE-MSC-21799-1] c 37 N92-29150

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THREE DIMENSIONAL FLOW

Three-dimensional laser velocimeter simultaneity detector
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[NASA-CASE-NPO-10769] c 08 N72-11171
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[NASA-CASE-XLA-07497] c 09 N71-12514
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[NASA-CASE-XLA-00154] c 28 N70-33374
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[NASA-CASE-XNP-02923] c 28 N71-23081
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[NASA-CASE-ARC-10754-1] c 07 N75-24736
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[NASA-CASE-LEW-12971-1] c 07 N80-18039
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[NASA-CASE-LAR-11970-2] c 08 N81-19130
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[NASA-CASE-LEW-11949-1] c 37 N76-29588
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[NASA-CASE-LAR-12562-1] c 08 N81-26152
THRUST CHAMBERS
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[NASA-CASE-XFR-09479] c 14 N69-27503
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Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
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[NASA-CASE-XLE-00409] c 28 N71-15658
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[NASA-CASE-XLE-05689] c 28 N71-15659
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[NASA-CASE-NPO-10046] c 28 N72-17843
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Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
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[NASA-CASE-LEW-14846-2] c 20 N91-26200
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[NASA-CASE-XNP-05975] c 15 N69-23185
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[NASA-CASE-XNP-00217] c 28 N70-38181
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[NASA-CASE-XLE-03583] c 31 N71-17629
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[NASA-CASE-XMF-06926] c 28 N71-22983
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
THRUST LOADS
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
THRUST MEASUREMENT
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
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[NASA-CASE-LEW-13199-1] c 07 N82-26293
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[NASA-CASE-XLE-00208] c 28 N70-34294
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[NASA-CASE-XLA-01339] c 31 N71-15692
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[NASA-CASE-LEW-10689-1] c 28 N71-26173
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[NASA-CASE-MFS-20831] c 28 N71-29153
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[NASA-CASE-MSC-13397-1] c 21 N72-25595
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
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[NASA-CASE-MSC-20476-2] c 20 N89-25279
THRUST-WEIGHT RATIO
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
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[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
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Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
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Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
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Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
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Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
TIME CONSTANT
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
TIME DEPENDENCE
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085
Neural network training by integration of adjoint systems of equations forward in time
[NASA-CASE-NPO-18586-1-CU] c 63 N93-17276
TIME DISCRIMINATION
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
TIME DIVISION MULTIPLEXING
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
TIME FUNCTIONS
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
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[NASA-CASE-XNP-01501] c 21 N70-41930
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
TIME MEASUREMENT
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
TIME MEASURING INSTRUMENTS
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
TIME OF FLIGHT SPECTROMETERS
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
TIME SERIES ANALYSIS
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
TIME SHARING
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
TIME SIGNALS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
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[NASA-CASE-XNP-06234] c 10 N71-27137

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

TIMING DEVICES
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
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[NASA-CASE-GSC-11139] c 09 N71-27016
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[NASA-CASE-NPO-12107] c 08 N71-27255
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[NASA-CASE-KSC-10294] c 14 N72-18411
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056

TIN OXIDES
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

TIPS
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

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Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
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[NASA-CASE-MFS-13929] c 15 N71-27091
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

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Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
Method for culturing mammalian cells in a perfused bioreactor
[NASA-CASE-MSC-21293-2] c 51 N93-10109
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[NASA-CASE-MSC-21294-2] c 51 N93-10110
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[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

TITANIUM ALLOYS
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Oxidation resistant coating for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N92-29090
Multi-layer light-weight protective coating and method for application
[NASA-CASE-LAR-14448-1] c 27 N93-11912

TITANIUM NITRIDES
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

TITANIUM OXIDES
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

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Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

TOLERANCES (MECHANICS)
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

TOLUENE
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

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System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

TOOLS
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
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[NASA-CASE-MSC-16000-1] c 37 N78-24544
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723
Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N93-14871
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N93-18286
Split rail gripper assembly and tool driver therefor
[NASA-CASE-GSC-13370-2] c 37 N93-18288

TOOTH DISEASES
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

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Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
Phase-stepping fiber-optic projected fringe system for surface topography measurements
[NASA-CASE-LEW-14996-1] c 74 N93-11058

TORCHES
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

TOROIDAL SHELLS
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

TOROIDS
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

TORQUE
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

TORQUE MOTORS
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

TORQUE SENSORS (ROBOTICS)
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

TORQUEMETERS
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

TORSION
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

TORSO
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

TOUCH
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
TOUGHNESS
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-2] c 27 N93-11059
TOWERS
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
TOXICITY
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
Low toxicity high temperature PMR polyimide
[NASA-CASE-LAR-14639-1] c 27 N93-14709
TOXICITY AND SAFETY HAZARD
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
TOXICOLOGY
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
TRACE CONTAMINANTS
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
TRACE ELEMENTS
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
TRACKED VEHICLES
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
TRACKING (POSITION)
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
TRACKING FILTERS
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
TRACKING RADAR
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
TRACKING STATIONS
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
TRACTION
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
TRAFFIC CONTROL
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
TRAILERS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
TRAILING EDGES
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
TRAILING-EDGE FLAPS
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
TRAINING DEVICES
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
TRAINING SIMULATORS
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
TRAJECTORIES
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
TRAJECTORY ANALYSIS
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
TRAJECTORY CONTROL
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Terminal slider control of nonlinear robotic systems
[NASA-CASE-NPO-18584-1-CU] c 37 N93-11177
TRANSDUCERS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
A method and apparatus for indicating disbonds in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859
Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056
Control system and method for prosthetic devices
[NASA-CASE-MSC-21941-1] c 54 N93-17087
TRANSFER FUNCTIONS
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
TRANSFORMATIONS (MATHEMATICS)
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
TRANSFORMERS
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

TRANSIENT HEATING
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

TRANSIENT LOADS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSIENT RESPONSE
Measurand transient signal suppressor
[NASA-CASE-MSC-22027-1] c 63 N93-17056

TRANSISTOR AMPLIFIERS
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

TRANSISTOR CIRCUITS
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

TRANSISTORS
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086

TRANSITION FLOW
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

TRANSLATIONAL MOTION
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Helix translation device --- shim for precision displacements
[NASA-CASE-GSC-13141-1] c 37 N92-23548
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140

TRANSLATORS
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

TRANSMISSION LINES
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

TRANSMISSION LOSS
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

TRANSMISSIONS (MACHINE ELEMENTS)
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

TRANSMISSIVITY
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

TRANSMITTANCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

TRANSMITTERS
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

TRANSONIC SPEED
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

TRANSPARENCE
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

TRANSPIRATION
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

TRANSPONDERS
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

TRANSPORT VEHICLES
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

TRANSPORTATION
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

TRANSVERSE ACCELERATION
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPPED PARTICLES
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

TRAPS
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING SALESMAN PROBLEM
Electronic neural network for solving traveling salesman and similar global optimization problems
[NASA-CASE-NPO-17807-2-CU] c 63 N92-29955

TRAVELING WAVE AMPLIFIERS
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

TRAVELING WAVE TUBES
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

TRAVELING WAVES
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

TRAYS
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171

TREADMILLS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

TREADS
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRIGGER CIRCUITS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

TRIMERS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

TRITIUM
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TROPOSPHERE
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-2] c 35 N93-17626

TRUCKS
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
Robot-friendly connector --- space truss structures
[NASA-CASE-MSC-21864-1] c 37 N92-23544

TUBE GRIDS
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
Fluid separator
[NASA-CASE-MFS-28658-1] c 34 N93-17039

TUMBLING MOTION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290
Doppler shift compensation system for laser transmitters and receivers
[NASA-CASE-GSC-13194-1] c 36 N93-18287

TUNGSTEN
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

TUNNEL DIODES
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

TUNNELING (EXCAVATION)
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

TURBINE BLADES
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

TURBINE PUMPS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

TURBINE WHEELS
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

TURBINES
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

TURBOCOMPRESSORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

TURBOFAN ENGINES
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and *method of operating same*
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

TURBOFANS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

TURBOGENERATORS
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

TURBOJET ENGINE CONTROL
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

TURBOJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

TURBOMACHINE BLADES
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

TURBOMACHINERY
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

TURBOSHAFTS
Optical torquemeter Patent
[NASA-CASE-XLE-Q0503] c 14 N70-34818
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

TURBULENCE
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

TURBULENCE EFFECTS
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

TURBULENCE METERS
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

TURBULENT BOUNDARY LAYER
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

TURBULENT FLOW
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

TURNSTILE ANTENNAS
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

TURRET
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

TWISTING
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

TWO BODY PROBLEM
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

TWO DIMENSIONAL BODIES
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

TWO PHASE FLOW
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958

TYPEWRITERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

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U BENDS
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

ULCERS
Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ULLAGE
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ULTRAHIGH FREQUENCIES
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ULTRAHIGH VACUUM
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

ULTRAPURE METALS
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

ULTRASONIC AGITATION
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514

ULTRASONIC CLEANING
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ULTRASONIC FLAW DETECTION
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

ULTRASONIC RADIATION
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

ULTRASONIC SCANNERS
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

ULTRASONIC TESTS
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384

ULTRASONIC WAVE TRANSDUCERS
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
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[NASA-CASE-XNP-02340] c 23 N69-24332
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

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Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
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[NASA-CASE-ERC-10034] c 15 N71-24896
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[NASA-CASE-XGS-03736] c 14 N72-22443
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[NASA-CASE-ARC-10592-1] c 27 N74-21156
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[NASA-CASE-MFS-21577-1] c 19 N74-29410
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ULTRAVIOLET REFLECTION
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[NASA-CASE-XGS-04799] c 18 N71-24183
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[NASA-CASE-LAR-10385-3] c 74 N78-15879

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Ultraviolet atomic emission detector
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[NASA-CASE-XGS-01036] c 14 N70-40003
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[NASA-CASE-XNP-09768] c 09 N71-12516

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[NASA-CASE-NPO-16103-1] c 27 N85-29043

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System and method for cancelling expansion waves in a wave rotor
[NASA-CASE-LEW-15218-1] c 34 N93-11172

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Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

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[NASA-CASE-HQN-10037-1] c 14 N73-27376
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Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

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Isotope separation using metallic vapor lasers
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Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
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[NASA-CASE-ARC-10980-1] c 27 N80-23452

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[NASA-CASE-NPO-10830-1] c 27 N81-15104
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[NASA-CASE-XNP-09451] c 06 N71-26754
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
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[NASA-CASE-GSC-12046-1] c 52 N79-14750
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Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
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[NASA-CASE-LAR-13901-2] c 52 N92-11621
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Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
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Double-V block fingers with cruciform recess
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[NASA-CASE-LEW-11573-1] c 26 N77-28265
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Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
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[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
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[NASA-CASE-XAC-00472] c 15 N70-40180
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
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[NASA-CASE-XNP-09699] c 06 N71-24607
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
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[NASA-CASE-LAR-11237-1] c 35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
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[NASA-CASE-NPO-15227-1] c 37 N81-33482
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[NASA-CASE-MFS-25306-1] c 25 N83-13187
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[NASA-CASE-MFS-25242-1] c 35 N83-29650
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[NASA-CASE-MFS-28139-1] c 29 N87-18679
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021
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High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
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[NASA-CASE-XMF-07488] c 11 N71-18773
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
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[NASA-CASE-MFS-23923-1] c 35 N81-19426
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[NASA-CASE-NPO-15115-1] c 37 N82-24493
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[NASA-CASE-MFS-28485-1] c 35 N92-29135
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A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
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[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
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[NASA-CASE-NPO-10331] c 09 N71-26701
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High power RF coaxial switch
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Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
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[NASA-CASE-XLA-02758] c 14 N71-18481
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
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High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
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Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
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Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
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[NASA-CASE-XGS-00587] c 15 N70-35087
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[NASA-CASE-XGS-02441] c 15 N70-41629
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sorption vacuum trap Patent
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Vacuum leak detector
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Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
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[NASA-CASE-ARC-10445-1] c 31 N76-31365
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
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High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
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Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
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[NASA-CASE-XLE-00397] c 15 N70-36492
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[NASA-CASE-XNP-00214] c 15 N70-36908
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[NASA-CASE-XMF-04709] c 15 N71-15609
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
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[NASA-CASE-XMS-05890] c 09 N71-23191
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
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[NASA-CASE-LAR-10061-1] c 15 N72-31483
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[NASA-CASE-NPO-11951-1] c 37 N74-21065
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[NASA-CASE-MFS-20922-1] c 18 N74-22136
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[NASA-CASE-MSC-16239-1] c 37 N81-32510
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[NASA-CASE-MFS-25740-1] c 52 N84-11744
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[NASA-CASE-MSC-18866-1] c 35 N85-29213
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Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
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[NASA-CASE-MFS-26047-1] c 29 N90-21209
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[NASA-CASE-MSC-21025-4] c 54 N91-14723
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[NASA-CASE-LEW-14846-2] c 20 N91-26200
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[NASA-CASE-MSC-21025-3] c 54 N91-26747
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[NASA-CASE-MSC-21903-1] c 37 N92-30101

Check valve with poppet dashpot/frictional damping mechanism
[NASA-CASE-MSC-21950-1] c 37 N92-34242
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[NASA-CASE-MSC-21898-1] c 37 N93-14702

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Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
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[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

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A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
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[NASA-CASE-NPO-13650-1] c 25 N79-28253
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
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[NASA-CASE-GSC-13265-1] c 76 N91-14066
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241
Multiple layer dielectrics, hot film sensors, and methods of producing same
[NASA-CASE-LAR-14591-1] c 35 N93-19493

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[NASA-CASE-XLE-01182] c 27 N71-15635
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[NASA-CASE-XNP-01960] c 09 N71-23027
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

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Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

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[NASA-CASE-XER-09519] c 14 N71-18483

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Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

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Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
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[NASA-CASE-NPO-10633] c 03 N72-28025
Hypervelocity impact shield
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[NASA-CASE-LAR-14685-1] c 02 N92-34172

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[NASA-CASE-NPO-15609-2] c 25 N88-23846
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Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464

VARIABILITY
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
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[NASA-CASE-LEW-12916-1] c 37 N78-17384
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[NASA-CASE-LEW-12917-1] c 07 N78-18067

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Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

VARIABLE THRUST
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

VARIATIONS
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

VECTOR ANALYSIS
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

VECTOR CURRENTS
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

VECTOR QUANTIZATION
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

VECTORCARDIOGRAPHY
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

VECTORS (MATHEMATICS)
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

VEGETATION GROWTH
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Slow-release fertilizer
[NASA-CASE-MSC-21953-1-NP] c 37 N93-17271
Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] c 51 N93-19054

VEHICLE WHEELS
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

VEHICLES
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

VEHICULAR TRACKS
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

VELOCITY
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

VELOCITY COUPLING
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

VELOCITY MEASUREMENT
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

VELOCITY MODULATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

VENTILATION
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

VENTILATORS
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

VENTING
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156

VENTURI TUBES
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

VENUS (PLANET)
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

VERTICAL FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

VERTICAL LANDING
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

VERTICAL ORIENTATION
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

VERTICAL TAKEOFF AIRCRAFT
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570

VERY HIGH FREQUENCIES
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

VERY LARGE SCALE INTEGRATION
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

VERY LONG BASE INTERFEROMETRY
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

VESTS
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

VIBRATION
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952

VIBRATION DAMPING
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173
Method and apparatus for minimizing multiple degree of freedom vibration transmission between two regions of a structure
[NASA-CASE-LAR-14508-1-CU] c 39 N93-13420

VIBRATION EFFECTS
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

VIBRATION ISOLATORS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021

VIBRATION MEASUREMENT
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545
Acceleration recorder and playback module
[NASA-CASE-MSC-22008-1] c 35 N93-17077

VIBRATION METERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545

VIBRATION MODE
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

VIBRATION SIMULATORS
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

VIBRATION TESTS
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

VIBRATIONAL SPECTRA
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

VIDEO COMMUNICATION
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

VIDEO DATA
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224

VIDEO EQUIPMENT
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
Composite video and graphics display for camera viewing systems in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N93-18284

VIDEO SIGNALS
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

VIDEO TAPE RECORDERS
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

VIDEO TAPES
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

VIDICONS
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

VIEWING
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027

VINYL COPOLYMERS
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

VINYL POLYMERS
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

VINYLIDENE
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

VIRUSES
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

VISCOELASTICITY
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

VISCOMETERS
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

VISCOUS DAMPING
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

VISIBILITY
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

VISIBLE SPECTRUM
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

VISUAL ACUITY
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL AIDS
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

VISUAL CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

VISUAL STIMULI
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

VITERBI DECODERS
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

VOICE COMMUNICATION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

VOICE DATA PROCESSING
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

VOIDS
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
Method and apparatus for evaluating multilayer objects for imperfections
[NASA-CASE-LAR-14581-1-SB] c 38 N93-12204

VOLATILITY
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

VOLT-AMPERE CHARACTERISTICS
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

VOLTAGE AMPLIFIERS
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
Cascaded transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N93-18278

VOLTAGE CONTROLLED OSCILLATORS
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

VOLTAGE CONVERTERS (DC TO DC)
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463

VOLTAGE GENERATORS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

VOLTAGE REGULATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

VOLTMETERS
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

VOLUME
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493

VOLUMETRIC ANALYSIS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

VOMITING
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

VORTEX ALLEVIATION
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N93-19053

VORTEX BREAKDOWN
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N93-19053

VORTEX FLAPS
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N93-19053

VORTEX GENERATORS
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

VORTICES
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390
Underwing compression vortex attenuation device
[NASA-CASE-LAR-14744-1] c 02 N93-19053

VORTICITY
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

VULCANIZING
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

VULNERABILITY
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[NASA-CASE-LAR-14050-1] c 31 N90-21216

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WAFERS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
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[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N93-13418

WAKES
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

WALKING
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N93-14708

WALKING MACHINES
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

WALL FLOW
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

WALL TEMPERATURE
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

WALLS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913
Pressure wall patch
[NASA-CASE-MFS-28724-1] c 18 N93-17061
Radial spline assembly for antifriction bearings
[NASA-CASE-MFS-28629-1] c 37 N93-17084

WARNING SYSTEMS
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

WASHING
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

WASTE DISPOSAL
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192

An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
Space station trash removal system
[NASA-CASE-MSC-21723-1] c 18 N92-30315
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

WASTE ENERGY UTILIZATION
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

WASTE HEAT
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

WASTE UTILIZATION
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

WASTE WATER
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

WASTES
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

WATER
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

WATER FLOW
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

WATER INJECTION
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

WATER LANDING
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

WATER MANAGEMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

WATER POLLUTION
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

WATER QUALITY
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

WATER RECLAMATION
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

WATER RESOURCES
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

WATER SPLITTING
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
Water electrolysis
[NASA-CASE-MSC-21572-1-SB] c 25 N92-28756

WATER TEMPERATURE
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

WATER TREATMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1-SB] c 51 N93-18351

WATER VAPOR
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

WATER WAVES
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

WATERPROOFING
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

WATERWAVE ENERGY CONVERSION
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WAVE AMPLIFICATION
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE FRONTS
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

WAVE GENERATION
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

WAVE INTERACTION
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

WAVE PROPAGATION
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

WAVE REFLECTION
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

WAVE RESISTANCE
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

WAVE SCATTERING
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

WAVEFORMS
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

WAVEGUIDE ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

WAVEGUIDE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

WAVEGUIDE WINDOWS
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808

WAVEGUIDES
Dual waveguide mode source having control means for *adjusting the relative amplitude of two modes* Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N93-18285

WAVELENGTHS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

WAVES
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WEAR
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N93-18856

WEAR INHIBITORS
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

WEAR RESISTANCE
Pretreatment of lubricated surfaces with sputtered *cadmium oxide*
[NASA-CASE-LEW-14474-1] c 27 N91-28423

WEATHERPROOFING
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

WEAVING
Integral fill yarn insertion and beatup method
[NASA-CASE-LAR-14046-1] c 31 N92-11219
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
Integral fill yarn insertion and beatup method using inflatable membrane
[NASA-CASE-LAR-14046-1] c 31 N93-18857
Method and apparatus for three dimensional braiding
[NASA-CASE-LAR-14047-1] c 31 N93-19038

WEBS (SHEETS)
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

WEBS (SUPPORTS)
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

WEDGES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Method and apparatus for gripping test specimens
[NASA-CASE-LEW-15345-1] c 37 N93-12327

WEIGHT (MASS)
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

WEIGHT INDICATORS
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

WEIGHT MEASUREMENT
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Device for monitoring a change in mass in varying *gravimetric environments*
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

WEIGHTLESSNESS
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Method of crystallization --- in gravity-free *environments*
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
Whole body cleaning agent *containing N-acyltaurate*
[NASA-CASE-MSC-21589-1] c 54 N92-29137
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
Passive zero-gravity leg restraint
[NASA-CASE-ARC-11882-1-CU] c 54 N93-14713

WEIGHTLESSNESS SIMULATION
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790

WELD STRENGTH
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

WELD TESTS
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464

WELDED JOINTS
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

WELDED STRUCTURES
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

WELDING
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

WELDING MACHINES
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094

WET CELLS
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

WET SPINNING
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

WETTING
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

WHEATSTONE BRIDGES
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097

WHEELCHAIRS
Wheels for wheelchairs and the like
[NASA-CASE-MFS-28632-1] c 54 N93-17042

WHEELS
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754
Wheels for wheelchairs and the like
[NASA-CASE-MFS-28632-1] c 54 N93-17042

WHISKER COMPOSITES
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

WHISKERS (CRYSTALS)
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

WICKS
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

WIDE ANGLE LENSES
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892

WIDEBAND COMMUNICATION
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

WINCHES
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

WIND DIRECTION
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

WIND EFFECTS
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND MEASUREMENT
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

WIND PROFILES
Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

WIND SHEAR
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND TUNNEL APPARATUS
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149
Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213

WIND TUNNEL CALIBRATION
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

WIND TUNNEL DRIVES
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

WIND TUNNEL MODELS
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

WIND TUNNEL NOZZLES
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175

WIND TUNNEL TESTS
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
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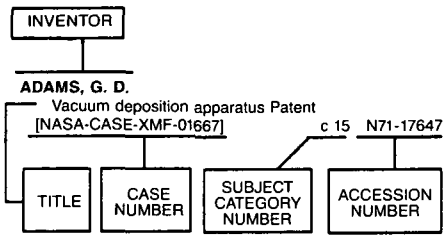

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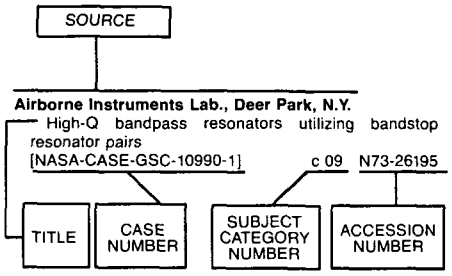

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Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
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[NASA-CASE-NPO-14641-1] c 32 N81-29308
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[NASA-CASE-NPO-13689-2] c 44 N81-29525
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[NASA-CASE-NPO-14448-1] c 74 N81-29963
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[NASA-CASE-NPO-14542-1] c 25 N82-23282
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[NASA-CASE-NPO-15358-1] c 33 N83-27126
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[NASA-CASE-NPO-15210-1] c 25 N84-22709
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
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[NASA-CASE-NPO-15465-1] c 34 N84-22903
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
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[NASA-CASE-NPO-15516-1] c 36 N84-22943
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[NASA-CASE-NPO-15496-1] c 44 N84-23018
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[NASA-CASE-NPO-15689-1] c 71 N84-23233
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[NASA-CASE-NPO-15345-1] c 74 N84-23247
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[NASA-CASE-NPO-16112-1] c 33 N86-19516

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[NASA-CASE-XNP-08907] c 23 N71-29123
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[NASA-CASE-HQN-10876-1] c 33 N76-27473
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[NASA-CASE-MSC-14773-1] c 35 N78-12390
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[NASA-CASE-ARC-10991-1] c 25 N78-14104
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[NASA-CASE-ARC-10992-1] c 26 N78-32229
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[NASA-CASE-XMS-05894-1] c 15 N69-21924
Portable environmental control system Patent
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[NASA-CASE-XMS-05890] c 09 N71-23191
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[NASA-CASE-MSC-10960-1] c 03 N71-24718
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[NASA-CASE-LAR-10270-1] c 32 N72-25877
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[NASA-CASE-MSC-13335-1] c 06 N72-31140
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[NASA-CASE-MSC-11072] c 54 N74-32546
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
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[NASA-CASE-LAR-10180-1] c 06 N71-13461

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[NASA-CASE-LAR-10551-1] c 25 N74-12813
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[NASA-CASE-LEW-12419-1] c 07 N77-14025
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[NASA-CASE-LEW-12550-1] c 24 N77-19170
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[NASA-CASE-LEW-12830-1] c 07 N77-23106
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[NASA-CASE-LEW-12608-1] c 07 N77-27116
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[NASA-CASE-LEW-12477-1] c 37 N77-32501
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[NASA-CASE-LEW-12317-1] c 07 N78-17055
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[NASA-CASE-LEW-12452-1] c 07 N78-25089
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[NASA-CASE-LEW-12793-1] c 37 N79-11403
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[NASA-CASE-LEW-12389-3] c 07 N79-14096
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[NASA-CASE-LEW-12378-1] c 07 N79-14097
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[NASA-CASE-LEW-12658-1] c 71 N79-14871
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
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[NASA-CASE-LEW-12907-2] c 07 N81-19115
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[NASA-CASE-LEW-13199-1] c 07 N82-26293
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[NASA-CASE-LEW-14586-1] c 07 N83-31603
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
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[NASA-CASE-LEW-13524-1] c 07 N84-33410
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[NASA-CASE-LEW-13562-2] c 07 N85-35195
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[NASA-CASE-MSC-13609-1] c 05 N72-25122
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[NASA-CASE-KSC-11097-1] c 27 N82-33520
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[NASA-CASE-KSC-11155-1] c 04 N86-19304
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[NASA-CASE-KSC-11368-1] c 37 N89-13786
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[NASA-CASE-KSC-11387-1] c 29 N90-20236
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[NASA-CASE-KSC-11386-1] c 35 N90-22023
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[NASA-CASE-XMS-04061-1] c 09 N69-39885
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Reduced gravity simulator Patent
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Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
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Omnidirectional multiple impact landing system Patent
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[NASA-CASE-XLA-05906] c 31 N71-16221
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[NASA-CASE-XLA-00377] c 33 N71-17610
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Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
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[NASA-CASE-XLA-00934] c 14 N71-22765
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[NASA-CASE-XLA-01243] c 33 N71-22792
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
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Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
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Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
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[NASA-CASE-XLA-02059] c 33 N71-24276
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[NASA-CASE-XLA-04901] c 31 N71-24315
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Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
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[NASA-CASE-XLA-03410] c 16 N71-25914
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
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[NASA-CASE-LAR-10249-1] c 02 N71-26110
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[NASA-CASE-XLA-01782] c 14 N71-26136
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[NASA-CASE-LAR-10305] c 14 N71-26137
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[NASA-CASE-XLA-08254] c 14 N71-26161
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Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
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[NASA-CASE-XLA-08967] c 02 N71-27088
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[NASA-CASE-LAR-10193-1] c 15 N71-27146
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[NASA-CASE-LAR-10204] c 14 N71-27215
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[NASA-CASE-XLA-03893] c 10 N71-27271
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[NASA-CASE-XLA-08799] c 10 N71-27272
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[NASA-CASE-XLA-09346] c 15 N71-28740
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[NASA-CASE-XLA-01745] c 33 N71-28903
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[NASA-CASE-XLA-08913] c 14 N71-28933
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[NASA-CASE-XLA-10772] c 07 N71-28980
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[NASA-CASE-XLA-06713] c 14 N71-28991
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[NASA-CASE-LAR-10195-1] c 15 N73-19458

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[NASA-CASE-LAR-10128-1] c 08 N73-20217

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[NASA-CASE-LAR-10310-1] c 10 N73-20253

Infrared horizon locator
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Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
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Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050

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[NASA-CASE-LAR-10547-1] c 31 N74-13177

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[NASA-CASE-LAR-10544-1] c 37 N74-13178

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[NASA-CASE-LAR-10862-1] c 35 N74-15092

Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

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[NASA-CASE-LAR-10318-1] c 31 N74-18089

Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123

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[NASA-CASE-LAR-10489-1] c 31 N74-18124

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[NASA-CASE-LAR-11053-1] c 25 N74-18551

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[NASA-CASE-LAR-10426-1] c 09 N74-19528

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[NASA-CASE-LAR-10129-2] c 37 N74-20063

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

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[NASA-CASE-LAR-10626-1] c 19 N74-21015

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[NASA-CASE-LAR-10688-1] c 37 N74-21056

Totally confined explosive welding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062

Means for accommodating large overstrain in lead wires
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Light shield and cooling apparatus
[NASA-CASE-LAR-10089-1] c 34 N74-23066

Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035

Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

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[NASA-CASE-LAR-10194-1] c 34 N74-30608

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[NASA-CASE-LAR-10642-1] c 07 N74-31270

Noise suppressor
[NASA-CASE-LAR-11141-1] c 07 N74-32418

Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

Stagnation pressure probe
[NASA-CASE-LAR-11139-1] c 35 N74-32878

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Multiple layer dielectrics, hot film sensors, and methods of producing same
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Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
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[NASA-CASE-XMF-00517] c 03 N70-34157
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Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
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Automatic welding speed controller Patent
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Positive dc to positive dc converter Patent
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Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
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[NASA-CASE-XMF-08804] c 09 N71-24717
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
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Power system with heat pipe liquid coolant lines Patent
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[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for determining the deflection of an electron beam impinging on a target Patent
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Transistor servo system including a unique differential amplifier circuit Patent
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RC rate generator for slow speed measurement Patent
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Method and apparatus for precision sizing and joining of large diameter tubes Patent
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Duct coupling for single-handed operation Patent
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Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
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[NASA-CASE-MFS-20075] c 09 N71-26133
Method and apparatus for precision sizing and joining of large diameter tubes Patent
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[NASA-CASE-MFS-20261] c 14 N71-27005
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[NASA-CASE-MFS-14114] c 33 N71-27862
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[NASA-CASE-MFS-13687] c 09 N71-28691
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
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[NASA-CASE-XMF-05046] c 33 N71-28892
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[NASA-CASE-XMF-05999] c 15 N71-29032
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[NASA-CASE-MFS-11204] c 14 N71-29134
Current regulating voltage divider
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Meter for use in detecting tension in straps having predetermined elastic characteristics
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Brazing alloy binder
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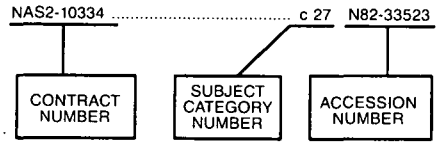

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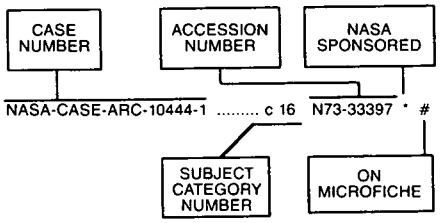

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INT-PATENT-CLASS-G01R-33/12 c 39 N92-29101 *
INT-PATENT-CLASS-G01R-35/00 c 38 N92-29154 *
INT-PATENT-CLASS-G01S-13/86 c 43 N91-21621 *
INT-PATENT-CLASS-G01S-13/89 c 43 N91-21621 *
INT-PATENT-CLASS-G01S-13/89 c 43 N91-32546 *
INT-PATENT-CLASS-G01S-13/90 c 43 N91-14642 *
INT-PATENT-CLASS-G01S-5/02 . c 04 N91-14321 *
INT-PATENT-CLASS-G01W-1/00 c 19 N91-14412 *
INT-PATENT-CLASS-G01W-1/00 c 47 N93-10108 *
INT-PATENT-CLASS-G02B-1/01 . c 74 N92-16808 *
INT-PATENT-CLASS-G02B-1/12 . c 74 N92-16808 *
INT-PATENT-CLASS-G02B-21/26 c 37 N91-21545 *
INT-PATENT-CLASS-G02B-21/32 c 37 N91-21545 *
INT-PATENT-CLASS-G02B-23/00 c 35 N91-14591 *
INT-PATENT-CLASS-G02B-23/00 c 74 N92-16810 *
INT-PATENT-CLASS-G02B-26/02 c 37 N92-29151 *
INT-PATENT-CLASS-G02B-27/28 c 36 N92-16290 *
INT-PATENT-CLASS-G02B-27/42 c 74 N92-33022 *
INT-PATENT-CLASS-G02B-27/64 c 35 N91-14590 *
INT-PATENT-CLASS-G02B-27/64 c 74 N92-16811 *
INT-PATENT-CLASS-G02B-3/00 . c 74 N92-16810 *
INT-PATENT-CLASS-G02B-5/122 c 18 N91-27200 *
INT-PATENT-CLASS-G02B-5/20 . c 74 N93-13419 *
INT-PATENT-CLASS-G02B-5/23 . c 74 N92-16808 *
INT-PATENT-CLASS-G02B-6/02 . c 74 N91-21871 *
INT-PATENT-CLASS-G02B-6/16 . c 74 N91-21871 *
INT-PATENT-CLASS-G02B-7/02 . c 74 N92-16811 *
INT-PATENT-CLASS-G02B-7/18 . c 35 N91-14590 *
INT-PATENT-CLASS-G02F-1/01 . c 74 N92-29117 *
INT-PATENT-CLASS-G03B-1/16 . c 74 N92-33022 *
INT-PATENT-CLASS-G03H-1/02 . c 35 N91-13694 *
INT-PATENT-CLASS-G05B-19/24 c 63 N91-31885 *
INT-PATENT-CLASS-G05B-19/42 c 33 N91-31528 *
INT-PATENT-CLASS-G05B-19/42 c 63 N92-33019 *
INT-PATENT-CLASS-G05D-15/01 c 39 N93-13420 *
INT-PATENT-CLASS-G05D-19/01 c 39 N93-13420 *
INT-PATENT-CLASS-G05F-1/12 . c 33 N91-27479 *
INT-PATENT-CLASS-G05G-9/00 c 33 N92-29153 *
INT-PATENT-CLASS-G06F-1/02 . c 33 N90-23636 *
INT-PATENT-CLASS-G06F-11/10 c 33 N92-33011 *
INT-PATENT-CLASS-G06F-12/00 c 62 N91-25693 * #
INT-PATENT-CLASS-G06F-15/00 c 37 N92-22036 *
INT-PATENT-CLASS-G06F-15/16 c 62 N91-14769 *
INT-PATENT-CLASS-G06F-15/18 c 61 N91-14741 *
INT-PATENT-CLASS-G06F-15/20 c 17 N91-14371 *
INT-PATENT-CLASS-G06F-15/20 c 32 N91-25317 *
INT-PATENT-CLASS-G06F-15/20 c 62 N92-15620 * #
INT-PATENT-CLASS-G06F-15/46 c 63 N91-31885 *
INT-PATENT-CLASS-G06F-15/50 c 04 N91-31120 *
INT-PATENT-CLASS-G06F-9/46 . c 62 N91-14769 *
INT-PATENT-CLASS-G06G-7/12 c 62 N91-32852 *
INT-PATENT-CLASS-G06G-7/12 c 32 N92-22033 *
INT-PATENT-CLASS-G06G-7/48 c 62 N92-15620 * #
INT-PATENT-CLASS-G06K-9/00 . c 54 N92-29129 *
INT-PATENT-CLASS-G06K-9/00 . c 61 N93-18282 *
INT-PATENT-CLASS-G06K-9/00 . c 61 N93-18858 *
INT-PATENT-CLASS-G08B-13/26 c 63 N93-14701 *
INT-PATENT-CLASS-G08B-21/00 c 37 N91-14607 *
INT-PATENT-CLASS-G08C-19/10 c 63 N93-14701 *
INT-PATENT-CLASS-G11B-17/22 c 60 N92-29132 *
INT-PATENT-CLASS-G11B-3/74 . c 60 N92-29132 *
INT-PATENT-CLASS-G11B-5/09 . c 60 N92-29132 *
INT-PATENT-CLASS-G11C-11/15 c 60 N93-14704 *
INT-PATENT-CLASS-G11C-29/00 c 60 N91-31810 *
INT-PATENT-CLASS-G21K-1/06 . c 74 N93-14711 *
INT-PATENT-CLASS-G21K-7/00 . c 35 N92-29135 *
INT-PATENT-CLASS-G21K-7/00 . c 89 N92-33012 * #

INT-PATENT-CLASS-H01B-1/00 . c 27 N92-16121 *
INT-PATENT-CLASS-H01B-1/06 . c 24 N91-15320 *
INT-PATENT-CLASS-H01C-31/58 c 44 N92-22037 *
INT-PATENT-CLASS-H01F-27/30 c 33 N91-14539 *
INT-PATENT-CLASS-H01J-25/34 c 33 N90-22724 *
INT-PATENT-CLASS-H01J-3/14 .. c 74 N92-33028 *
INT-PATENT-CLASS-H01J-37/00 c 72 N91-27936 *
INT-PATENT-CLASS-H01J-40/14 c 74 N92-33017 *
INT-PATENT-CLASS-H01L-21/306 c 25 N91-31258 *
INT-PATENT-CLASS-H01L-21/324 c 76 N91-28014 *
INT-PATENT-CLASS-H01L-27/02 c 74 N91-25841 *
INT-PATENT-CLASS-H01L-27/12 c 76 N92-22041 *
INT-PATENT-CLASS-H01L-27/12 c 35 N93-19387 *
INT-PATENT-CLASS-H01L-27/14 c 33 N91-14551 *
INT-PATENT-CLASS-H01L-27/14 c 33 N91-21434 *
INT-PATENT-CLASS-H01L-27/14 c 35 N93-19387 *
INT-PATENT-CLASS-H01L-29/161 c 74 N91-25841 *
INT-PATENT-CLASS-H01L-29/161 c 35 N93-19387 *
INT-PATENT-CLASS-H01L-29/205 c 76 N93-11056 *
INT-PATENT-CLASS-H01L-29/48 c 33 N92-16197 *
INT-PATENT-CLASS-H01L-31/10 c 76 N93-11056 *
INT-PATENT-CLASS-H01L-31/18 c 44 N91-27614 *
INT-PATENT-CLASS-H01L-31/42 c 44 N91-27614 *
INT-PATENT-CLASS-H01L-37/00 c 44 N92-16457 *
INT-PATENT-CLASS-H01L-39/22 c 76 N92-22041 *
INT-PATENT-CLASS-H01L-41/08 c 71 N91-14808 *
INT-PATENT-CLASS-H01L-41/08 c 76 N91-14872 *
INT-PATENT-CLASS-H01L-43/00 c 33 N91-14537 *
INT-PATENT-CLASS-H01M-10/40 c 33 N92-28753 *
INT-PATENT-CLASS-H01M-4/04 c 33 N91-27478 *
INT-PATENT-CLASS-H01M-4/58 c 33 N91-27478 *
INT-PATENT-CLASS-H01M-6/20 c 33 N91-14538 *
INT-PATENT-CLASS-H01N-1/26 . c 34 N92-16243 *
INT-PATENT-CLASS-H01N-17/00 c 34 N92-16243 *
INT-PATENT-CLASS-H01P-1/18 . c 74 N92-28571 *
INT-PATENT-CLASS-H01R-13/54 c 37 N93-14712 *
INT-PATENT-CLASS-H01S-3/08 . c 36 N93-18277 *
INT-PATENT-CLASS-H01S-3/098 c 36 N91-17360 * #
INT-PATENT-CLASS-H01S-3/10 . c 36 N92-31788 *
INT-PATENT-CLASS-H01S-3/16 . c 36 N91-15528 *
INT-PATENT-CLASS-H01S-3/19 . c 36 N93-13418 *
INT-PATENT-CLASS-H01S-3/19 . c 36 N93-14703 *
INT-PATENT-CLASS-H01S-3/22 . c 25 N91-21270 *
INT-PATENT-CLASS-H02K-1/14 . c 37 N92-29099 *
INT-PATENT-CLASS-H02K-41/00 c 37 N91-21539 *
INT-PATENT-CLASS-H02K-44/10 c 27 N91-14489 *
INT-PATENT-CLASS-H02K-7/09 . c 70 N91-21824 *
INT-PATENT-CLASS-H02L-9/04 . c 60 N90-25583 *
INT-PATENT-CLASS-H02M-3/07 c 33 N93-18278 *
INT-PATENT-CLASS-H02N-1/08 . c 33 N92-22042 *
INT-PATENT-CLASS-H03B-5/12 . c 33 N90-23635 *
INT-PATENT-CLASS-H03D-1/00 . c 33 N91-14550 *
INT-PATENT-CLASS-H03D-1/04 . c 33 N91-26438 *
INT-PATENT-CLASS-H03D-1/06 . c 32 N92-21712 *
INT-PATENT-CLASS-H03M-13/00 c 60 N91-31810 *
INT-PATENT-CLASS-H04B-1/10 . c 32 N91-25316 *
INT-PATENT-CLASS-H04B-10/00 c 74 N91-27957 *
INT-PATENT-CLASS-H04B-10/00 c 36 N93-18287 *
INT-PATENT-CLASS-H04J-3/02 .. c 62 N91-14772 *
INT-PATENT-CLASS-H04K-3/00 . c 33 N91-31530 *
INT-PATENT-CLASS-H04L-27/18 c 32 N91-14523 *
INT-PATENT-CLASS-H04L-27/18 c 32 N91-25318 *
INT-PATENT-CLASS-H04L-27/22 c 32 N91-27439 *
INT-PATENT-CLASS-H04N-13/00 c 74 N92-16809 *
INT-PATENT-CLASS-H04N-13/00 c 74 N93-18276 *
INT-PATENT-CLASS-H04N-5/262 c 60 N92-16563 *
INT-PATENT-CLASS-H04N-5/74 . c 74 N93-13711 *
INT-PATENT-CLASS-H04N-7/00 . c 32 N93-18284 *
INT-PATENT-CLASS-H04N-7/133 c 74 N93-18276 *
INT-PATENT-CLASS-H04N-7/13 . c 32 N92-10128 *
INT-PATENT-CLASS-H04N-7/18 . c 35 N90-22770 *
INT-PATENT-CLASS-H04N-7/18 . c 32 N93-18284 *
INT-PATENT-CLASS-H04N-9/31 . c 74 N93-13711 *
INT-PATENT-CLASS-H04R-15/00 c 33 N92-15331 *
INT-PATENT-CLASS-H04R-25/00 c 35 N91-27522 *
INT-PATENT-CLASS-H05B-33/00 c 74 N91-14835 *
INT-PATENT-CLASS-H05B-33/14 c 76 N91-21911 *
INT-PATENT-CLASS-H05B-33/14 c 74 N91-31950 *
INT-PATENT-CLASS-H07M-10/39 c 33 N91-14536 *
INT-PATENT-CLASS-H07M-4/60 c 33 N91-14536 *

INT-PATENT-CLASS-N66L-1/66 . c 37 N93-13417 *

NAS 1.15:76884 ..... c 24 N85-25436 * #
NAS 1.71:ARC-11349-1 ..... c 37 N86-20797 * #
NAS 1.71:ARC-11368-2 ..... c 27 N85-21347 *
NAS 1.71:ARC-11423-1 ..... c 03 N84-33394 *
NAS 1.71:ARC-11510-1 ..... c 35 N86-32697 *
NAS 1.71:ARC-11641-1 ..... c 24 N88-18628 *
NAS 1.71:ARC-11652-1 ..... c 27 N87-23737 * #
NAS 1.71:ARC-11917-1 ..... c 35 N91-15520 * #
NAS 1.71:ARC-11921-1 ..... c 34 N92-11286 * #
NAS 1.71:GSC-12558-1 ..... c 36 N85-21639 *
NAS 1.71:GSC-12582-2 ..... c 37 N85-20337 *
NAS 1.71:GSC-12682-1 ..... c 35 N84-33765 *
NAS 1.71:GSC-12789-1 ..... c 35 N85-20294 *
NAS 1.71:GSC-12799-1 ..... c 31 N85-21404 *
NAS 1.71:GSC-12808-1 ..... c 25 N85-21279 *
NAS 1.71:GSC-12944-1 ..... c 52 N86-19885 * #
NAS 1.71:GSC-13141-1 ..... c 37 N92-23548 * #
NAS 1.71:GSC-13265-1 ..... c 76 N91-14066 * #
NAS 1.71:GSC-13343-1 ..... c 36 N91-28557 * #
NAS 1.71:GSC-13356-1 ..... c 37 N92-24243 * #
NAS 1.71:GSC-13359-1 ..... c 37 N92-23378 * #
NAS 1.71:GSC-13360-1 ..... c 37 N92-23377 * #
NAS 1.71:GSC-13408-1 ..... c 18 N92-24244 * #
NAS 1.71:GSC-13422-1 ..... c 33 N92-23462 * #
NAS 1.71:GSC-13442-1 ..... c 37 N92-23547 * #
NAS 1.71:GSC-13450-1 ..... c 44 N92-23463 * #
NAS 1.71:GSC-13451-1 ..... c 39 N92-23549 * #
NAS 1.71:KSC-11218-1 ..... c 09 N85-19990 *
NAS 1.71:LAR-12588-1 ..... c 34 N85-21568 *
NAS 1.71:LAR-12723-1 ..... c 27 N85-20123 *
NAS 1.71:LAR-12775-2 ..... c 27 N85-21349 *
NAS 1.71:LAR-12787-2 ..... c 08 N85-19985 *
NAS 1.71:LAR-12858-2 ..... c 27 N85-20124 *
NAS 1.71:LAR-12868-1 ..... c 37 N85-21651 *
NAS 1.71:LAR-12884 ..... c 18 N84-33450 *
NAS 1.71:LAR-12894-1 ..... c 27 N85-20125 *
NAS 1.71:LAR-12979-1 ..... c 05 N85-21147 *
NAS 1.71:LAR-13014-1 ..... c 09 N85-21178 *
NAS 1.71:LAR-13065-1 ..... c 35 N85-20295 *
NAS 1.71:LAR-13230-1 ..... c 24 N84-34571 *
NAS 1.71:LAR-13233-1 ..... c 05 N84-33400 * #
NAS 1.71:LAR-13256-1 ..... c 36 N86-29204 *
NAS 1.71:LAR-13257-1 ..... c 25 N84-32447 * #
NAS 1.71:LAR-13292-1 ..... c 27 N86-24841 * #
NAS 1.71:LAR-13387-1 ..... c 74 N88-25302 * #
NAS 1.71:LAR-13447-1 ..... c 27 N88-18725 *
NAS 1.71:LAR-13519-1 ..... c 35 N88-23963 * #
NAS 1.71:LAR-13548-1 ..... c 09 N91-28175 * #
NAS 1.71:LAR-13555-1 ..... c 23 N86-32526 * #
NAS 1.71:LAR-13563-1 ..... c 34 N91-23410 * #
NAS 1.71:LAR-13586-1 ..... c 16 N92-10035 * #
NAS 1.71:LAR-13632-1 ..... c 26 N87-29650 * #
NAS 1.71:LAR-13633-1 ..... c 27 N87-24575 * #
NAS 1.71:LAR-13645-1 ..... c 27 N91-28424 * #
NAS 1.71:LAR-13689-1 ..... c 35 N87-23941 * #
NAS 1.71:LAR-13705-1 ..... c 39 N88-25011 * #
NAS 1.71:LAR-13719-1 ..... c 37 N89-12867 * #
NAS 1.71:LAR-13738-1 ..... c 18 N87-29586 * #
NAS 1.71:LAR-13805-1 ..... c 37 N92-30097 * #
NAS 1.71:LAR-13823-1 ..... c 35 N92-10182 * #
NAS 1.71:LAR-13832-1 ..... c 28 N91-28444 * #
NAS 1.71:LAR-13889-1 ..... c 39 N88-30160 * #
NAS 1.71:LAR-13944-1 ..... c 35 N92-11336 * #
NAS 1.71:LAR-13950-1 ..... c 60 N92-30541 * #
NAS 1.71:LAR-13988-1 ..... c 23 N89-11814 * #
NAS 1.71:LAR-13996-1-SB ..... c 25 N90-15161 * #
NAS 1.71:LAR-14004-1 ..... c 63 N93-19024 * #
NAS 1.71:LAR-14033-2 ..... c 34 N92-30024 * #
NAS 1.71:LAR-14036-1 ..... c 27 N91-13562 * #
NAS 1.71:LAR-14046-1 ..... c 31 N92-11219 * #
NAS 1.71:LAR-14047-1 ..... c 31 N93-19038 * #

NAS 1.71:LAR-14048-1 ..... c 31 N92-11220 * #
NAS 1.71:LAR-14049-1 ..... c 07 N89-23466 * #
NAS 1.71:LAR-14078-1-CU ..... c 34 N90-27071 * #
NAS 1.71:LAR-14142-1 ..... c 37 N90-27116 * #
NAS 1.71:LAR-14156-1 ..... c 16 N90-16781 * #
NAS 1.71:LAR-14162-1 ..... c 27 N90-15259 * #
NAS 1.71:LAR-14169-1 ..... c 37 N92-17677 * #
NAS 1.71:LAR-14194-1 ..... c 24 N90-15148 * #
NAS 1.71:LAR-14198-1 ..... c 27 N90-26956 * #
NAS 1.71:LAR-14203-1 ..... c 36 N89-28817 * #
NAS 1.71:LAR-14206-1 ..... c 27 N91-28425 * #
NAS 1.71:LAR-14219-1 ..... c 08 N92-30025 * #
NAS 1.71:LAR-14221-1 ..... c 06 N93-19023 * #
NAS 1.71:LAR-14232-1 ..... c 09 N92-34213 * #
NAS 1.71:LAR-14271-1-CU ..... c 27 N91-13558 * #
NAS 1.71:LAR-14272-1-CU ..... c 14 N91-28184 * #
NAS 1.71:LAR-14330-1-CU ..... c 27 N91-13560 * #
NAS 1.71:LAR-14339-1 ..... c 27 N90-26955 * #
NAS 1.71:LAR-14395-1-CU ..... c 33 N91-28490 * #
NAS 1.71:LAR-14398-1 ..... c 25 N92-30098 * #
NAS 1.71:LAR-14418-1 ..... c 32 N92-31257 * #
NAS 1.71:LAR-14424-1-SB ..... c 09 N91-32149 * #
NAS 1.71:LAR-14440-1 ..... c 23 N92-10066 * #
NAS 1.71:LAR-14448-1 ..... c 27 N93-11912 * #
NAS 1.71:LAR-14457-1-CU ..... c 27 N92-11198 * #
NAS 1.71:LAR-14459-1 ..... c 24 N91-15334 * #
NAS 1.71:LAR-14470-1 ..... c 02 N93-11876 * #
NAS 1.71:LAR-14480-1-CU ..... c 39 N92-11374 * #
NAS 1.71:LAR-14483-1 ..... c 31 N91-28455 * #
NAS 1.71:LAR-14487-1 ..... c 27 N92-11200 * #
NAS 1.71:LAR-14520-1-SB ..... c 02 N92-10008 * #
NAS 1.71:LAR-14538-1 ..... c 27 N92-11201 * #
NAS 1.71:LAR-14542-1 ..... c 37 N92-11354 * #
NAS 1.71:LAR-14547-1 ..... c 34 N92-17909 * #
NAS 1.71:LAR-14556-1 ..... c 36 N91-25392 * #
NAS 1.71:LAR-14559-1 ..... c 38 N92-29829 * #
NAS 1.71:LAR-14565-1-CU ..... c 37 N92-34212 * #
NAS 1.71:LAR-14568-1 ..... c 74 N92-30312 * #
NAS 1.71:LAR-14581-1-SB ..... c 38 N93-12204 * #
NAS 1.71:LAR-14591-1 ..... c 35 N93-19493 * #
NAS 1.71:LAR-14607-1SB ..... c 74 N92-30029 * #
NAS 1.71:LAR-14608-1 ..... c 27 N92-17676 * #
NAS 1.71:LAR-14612-1 ..... c 34 N92-29954 * #
NAS 1.71:LAR-14626-1 ..... c 38 N92-17859 * #
NAS 1.71:LAR-14640-1-CU ..... c 74 N93-17052 * #
NAS 1.71:LAR-14643-1 ..... c 27 N92-29953 * #
NAS 1.71:LAR-14651-1 ..... c 82 N92-30386 * #
NAS 1.71:LAR-14654-1 ..... c 39 N92-30317 * #
NAS 1.71:LAR-14682-1 ..... c 34 N92-30387 * #
NAS 1.71:LAR-14698-1 ..... c 39 N92-30028 * #
NAS 1.71:LAR-14724-1 ..... c 35 N92-30030 * #
NAS 1.71:LAR-14729-1-CU ..... c 33 N93-19051 * #
NAS 1.71:LAR-14741-1 ..... c 39 N92-11384 * #
NAS 1.71:LAR-14744-1 ..... c 02 N93-19053 * #
NAS 1.71:LAR-14753-1 ..... c 27 N92-30313 * #
NAS 1.71:LAR-14763-1 ..... c 27 N92-12121 * #
NAS 1.71:LAR-14773-1 ..... c 27 N92-10105 * #
NAS 1.71:LAR-14775-1 ..... c 39 N92-30099 * #
NAS 1.71:LAR-14776-1 ..... c 35 N93-12205 * #
NAS 1.71:LAR-14779-1 ..... c 74 N92-29951 * #
NAS 1.71:LAR-14785-1 ..... c 74 N93-19052 * #
NAS 1.71:LAR-14789-1 ..... c 37 N92-30388 * #
NAS 1.71:LAR-14790-1 ..... c 36 N93-19373 * #
NAS 1.71:LAR-14810-1-SB ..... c 35 N93-19492 * #
NAS 1.71:LAR-14811-1 ..... c 33 N92-30389 * #
NAS 1.71:LAR-14815-1-CU ..... c 34 N92-29830 * #
NAS 1.71:LAR-14816-1-SB ..... c 39 N93-19329 * #
NAS 1.71:LAR-14817-1 ..... c 35 N93-17041 * #
NAS 1.71:LAR-14824-1-SB ..... c 34 N92-30390 * #
NAS 1.71:LAR-14835-1 ..... c 35 N93-19328 * #
NAS 1.71:LAR-14850-1-CU ..... c 38 N93-17048 * #
NAS 1.71:LAR-14857-1-SB ..... c 74 N93-19374 * #
NAS 1.71:LAR-14954-1 ..... c 24 N92-34214 * #
NAS 1.71:LEW-12995-1 ..... c 37 N84-33808 *
NAS 1.71:LEW-13324-2 ..... c 24 N85-21266 *
NAS 1.71:LEW-13414-1 ..... c 44 N85-20530 *
NAS 1.71:LEW-13495-1 ..... c 33 N84-33663 *
NAS 1.71:LEW-13524-1 ..... c 07 N84-33410 *
NAS 1.71:LEW-13639-1 ..... c 26 N84-33555 *
NAS 1.71:LEW-13770-3 ..... c 27 N85-21350 *
NAS 1.71:LEW-13770-4 ..... c 27 N85-21351 *
NAS 1.71:LEW-13770-5 ..... c 27 N85-21352 *
NAS 1.71:LEW-13827-1 ..... c 44 N85-21768 *
NAS 1.71:LEW-13833-1 ..... c 33 N85-21492 *
NAS 1.71:LEW-13837-2 ..... c 24 N85-21267 *
NAS 1.71:LEW-13881-1 ..... c 20 N85-21256 *
NAS 1.71:LEW-14080-1 ..... c 31 N85-20153 *
NAS 1.71:LEW-14127-1 ..... c 33 N86-20680 * #
NAS 1.71:LEW-14162-1 ..... c 34 N91-13668 * #
NAS 1.71:LEW-14162-3 ..... c 24 N92-34208 * #
NAS 1.71:LEW-14345-6 ..... c 23 N92-17882 * #
NAS 1.71:LEW-14345-7 ..... c 23 N93-17412 * #
NAS 1.71:LEW-14474-1 ..... c 27 N91-28423 * #
NAS 1.71:LEW-14474-2 ..... c 27 N92-11186 * #
NAS 1.71:LEW-14676-2 ..... c 76 N90-17454 * #
NAS 1.71:LEW-14734-1 ..... c 24 N89-23623 * #
NAS 1.71:LEW-14791-1 ..... c 02 N92-34243 * #
NAS 1.71:LEW-14906-1 ..... c 37 N93-12203 * #
NAS 1.71:LEW-14921-1 ..... c 24 N91-13502 * #
NAS 1.71:LEW-14945-1 ..... c 32 N91-13598 * #
NAS 1.71:LEW-14965-1 ..... c 37 N91-13732 * #
NAS 1.71:LEW-14973-1 ..... c 44 N92-10222 * #
NAS 1.71:LEW-15020-1 ..... c 27 N91-15412 * #
NAS 1.71:LEW-15027-1 ..... c 27 N91-13566 * #
NAS 1.71:LEW-15027-2 ..... c 27 N92-24053 * #
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NAS 1.71:LEW-15222-3 ..... c 76 N93-17413 * #
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NASA-CASE-ARC-10263-1 ..... c 14 N72-22438 *
NASA-CASE-ARC-10264-1 ..... c 09 N73-20231 *
NASA-CASE-ARC-10265-1 ..... c 10 N72-28240 *
NASA-CASE-ARC-10266-1 ..... c 33 N75-29318 *
NASA-CASE-ARC-10269-1 ..... c 10 N72-16172 *
NASA-CASE-ARC-10275-1 ..... c 05 N72-22092 *
NASA-CASE-ARC-10278-1 ..... c 14 N73-25463 *
NASA-CASE-ARC-10302-1 ..... c 51 N74-15778 *
NASA-CASE-ARC-10304-1 ..... c 18 N73-26572 *
NASA-CASE-ARC-10304-2 ..... c 27 N74-27037 *
NASA-CASE-ARC-10308-1 ..... c 06 N72-31141 *
NASA-CASE-ARC-10322-1 ..... c 35 N76-18403 *
NASA-CASE-ARC-10325 ..... c 06 N72-25147 *
NASA-CASE-ARC-10329-1 ..... c 05 N73-26072 *
NASA-CASE-ARC-10330-1 ..... c 09 N73-32112 *
NASA-CASE-ARC-10344-2 ..... c 35 N75-26334 *
NASA-CASE-ARC-10345-1 ..... c 15 N73-12488 *
NASA-CASE-ARC-10348-1 ..... c 33 N75-19518 *
NASA-CASE-ARC-10362-1 ..... c 14 N73-32326 *
NASA-CASE-ARC-10364-2 ..... c 33 N75-25041 *
NASA-CASE-ARC-10364-3 ..... c 33 N75-19520 *
NASA-CASE-ARC-10370-1 ..... c 36 N75-31426 *
NASA-CASE-ARC-10441-1 ..... c 35 N74-15126 *
NASA-CASE-ARC-10442-1 ..... c 35 N74-15093 *
NASA-CASE-ARC-10443-1 ..... c 14 N73-20477 *
NASA-CASE-ARC-10444-1 ..... c 16 N73-33397 *
NASA-CASE-ARC-10445-1 ..... c 31 N76-31365 *
NASA-CASE-ARC-10447-1 ..... c 52 N74-22771 *
NASA-CASE-ARC-10448-2 ..... c 74 N75-12732 *
NASA-CASE-ARC-10448-3 ..... c 35 N77-14408 *
NASA-CASE-ARC-10456-1 ..... c 05 N75-12930 *
NASA-CASE-ARC-10461-1 ..... c 44 N74-33379 *
NASA-CASE-ARC-10462-1 ..... c 37 N74-27901 *
NASA-CASE-ARC-10463-1 ..... c 09 N73-32111 *
NASA-CASE-ARC-10464-1 ..... c 27 N74-12812 *
NASA-CASE-ARC-10466-1 ..... c 60 N75-13539 *
NASA-CASE-ARC-10467-1 ..... c 09 N73-14214 *
NASA-CASE-ARC-10468-1 ..... c 14 N73-33361 *
NASA-CASE-ARC-10469-1 ..... c 25 N75-12086 *
NASA-CASE-ARC-10470-1 ..... c 02 N73-26005 *
NASA-CASE-ARC-10470-3 ..... c 05 N76-29217 *
NASA-CASE-ARC-10516-1 ..... c 70 N74-21300 *
NASA-CASE-ARC-10519-2 ..... c 05 N75-25915 *
NASA-CASE-ARC-10583-1 ..... c 52 N76-29894 *
NASA-CASE-ARC-10592-1 ..... c 27 N74-21156 *
NASA-CASE-ARC-10592-2 ..... c 27 N76-32315 *
NASA-CASE-ARC-10593-1 ..... c 33 N74-27682 *
NASA-CASE-ARC-10596-1 ..... c 33 N74-21851 *
NASA-CASE-ARC-10597-1 ..... c 52 N74-20726 *
NASA-CASE-ARC-10598-1 ..... c 75 N74-30156 *
NASA-CASE-ARC-10599-1 ..... c 05 N73-26071 *
NASA-CASE-ARC-10631-1 ..... c 74 N76-20958 *
NASA-CASE-ARC-10633-1 ..... c 25 N74-26947 *
NASA-CASE-ARC-10637-1 ..... c 35 N75-16783 *
NASA-CASE-ARC-10639-1 ..... c 35 N78-13400 *
NASA-CASE-ARC-10642-1 ..... c 36 N76-14447 *
NASA-CASE-ARC-10643-1 ..... c 25 N75-12087 *
NASA-CASE-ARC-10710-1 ..... c 09 N75-12969 *
NASA-CASE-ARC-10711-2 ..... c 33 N76-21390 *
NASA-CASE-ARC-10712-1 ..... c 07 N74-33218 *
NASA-CASE-ARC-10714-1 ..... c 27 N76-15310 *

NASA-CASE-ARC-10716-1 ..... c 35 N77-20399 *
NASA-CASE-ARC-10721-1 ..... c 27 N76-22376 *
NASA-CASE-ARC-10722-1 ..... c 51 N75-25503 *
NASA-CASE-ARC-10753-1 ..... c 54 N75-27760 *
NASA-CASE-ARC-10754-1 ..... c 07 N75-24736 *
NASA-CASE-ARC-10755-2 ..... c 34 N76-27517 *
NASA-CASE-ARC-10756-1 ..... c 54 N77-32721 *
NASA-CASE-ARC-10760-1 ..... c 25 N76-22323 *
NASA-CASE-ARC-10761-1 ..... c 07 N77-18154 *
NASA-CASE-ARC-10802-1 ..... c 35 N75-30502 *
NASA-CASE-ARC-10806-1 ..... c 35 N75-29381 *
NASA-CASE-ARC-10807-1 ..... c 05 N77-17029 *
NASA-CASE-ARC-10808-1 ..... c 09 N76-24280 *
NASA-CASE-ARC-10810-1 ..... c 33 N76-19339 *
NASA-CASE-ARC-10812-1 ..... c 07 N83-33884 *
NASA-CASE-ARC-10813-1 ..... c 27 N76-16230 *
NASA-CASE-ARC-10814-2 ..... c 07 N80-26298 *
NASA-CASE-ARC-10816-1 ..... c 35 N76-24525 *
NASA-CASE-ARC-10820-1 ..... c 35 N78-19466 *
NASA-CASE-ARC-10849-1 ..... c 17 N76-29347 *
NASA-CASE-ARC-10855-1 ..... c 52 N77-10780 *
NASA-CASE-ARC-10892-2 ..... c 27 N79-14214 *
NASA-CASE-ARC-10896-1 ..... c 35 N78-19465 *
NASA-CASE-ARC-10897-1 ..... c 33 N77-31404 *
NASA-CASE-ARC-10898-1 ..... c 35 N77-18417 *
NASA-CASE-ARC-10899-1 ..... c 60 N77-19760 *
NASA-CASE-ARC-10900-1 ..... c 35 N77-24454 *
NASA-CASE-ARC-10903-1 ..... c 09 N78-18083 *
NASA-CASE-ARC-10905-1 ..... c 37 N77-13418 *
NASA-CASE-ARC-10907-1 ..... c 37 N75-32465 * #
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NASA-CASE-ARC-10912-1 ..... c 34 N77-19353 *
NASA-CASE-ARC-10913-1 ..... c 24 N78-15180 *
NASA-CASE-ARC-10915-2 ..... c 27 N79-18052 *
NASA-CASE-ARC-10916-1 ..... c 52 N78-10686 *
NASA-CASE-ARC-10917-1 ..... c 51 N78-27733 *
NASA-CASE-ARC-10932-1 ..... c 74 N76-22993 *
NASA-CASE-ARC-10970-1 ..... c 36 N77-25501 *
NASA-CASE-ARC-10974-1 ..... c 34 N77-27345 *
NASA-CASE-ARC-10975-1 ..... c 33 N79-15245 *
NASA-CASE-ARC-10976-1 ..... c 74 N77-22950 *
NASA-CASE-ARC-10977-1 ..... c 07 N80-32392 *
NASA-CASE-ARC-10979-1 ..... c 09 N77-19076 *
NASA-CASE-ARC-10980-1 ..... c 27 N80-23452 *
NASA-CASE-ARC-10981-1 ..... c 37 N78-27425 *
NASA-CASE-ARC-10984-1 ..... c 32 N77-24328 *
NASA-CASE-ARC-10985-1 ..... c 52 N79-10724 *
NASA-CASE-ARC-10990-1 ..... c 04 N82-16059 *
NASA-CASE-ARC-10991-1 ..... c 25 N78-14104 *
NASA-CASE-ARC-10992-1 ..... c 26 N78-32229 *
NASA-CASE-ARC-10994-1 ..... c 52 N76-33835 * #
NASA-CASE-ARC-10994-2 ..... c 52 N79-26771 *
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NASA-CASE-ARC-11008-1 ..... c 27 N78-31232 *
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NASA-CASE-ARC-11035-1 ..... c 52 N79-18580 *
NASA-CASE-ARC-11036-1 ..... c 35 N78-32395 *
NASA-CASE-ARC-11039-1 ..... c 74 N78-32854 *
NASA-CASE-ARC-11040-1 ..... c 24 N79-16915 *
NASA-CASE-ARC-11040-2 ..... c 24 N78-27184 * #
NASA-CASE-ARC-11042-1 ..... c 24 N78-14096 *
NASA-CASE-ARC-11043-1 ..... c 24 N78-27180 *
NASA-CASE-ARC-11045-1 ..... c 05 N79-17847 *
NASA-CASE-ARC-11046-1 ..... c 35 N78-14364 *
NASA-CASE-ARC-11051-1 ..... c 27 N78-32260 *
NASA-CASE-ARC-11052-1 ..... c 37 N79-28551 *
NASA-CASE-ARC-11053-1 ..... c 25 N79-10162 *
NASA-CASE-ARC-11057-1 ..... c 27 N78-31233 *
NASA-CASE-ARC-11058-1 ..... c 54 N78-31735 *
NASA-CASE-ARC-11058-2 ..... c 54 N79-24651 *
NASA-CASE-ARC-11059-1 ..... c 54 N78-32721 *
NASA-CASE-ARC-11060-1 ..... c 27 N79-22300 *
NASA-CASE-ARC-11097-1 ..... c 25 N82-24312 *
NASA-CASE-ARC-11100-1 ..... c 54 N78-31736 *
NASA-CASE-ARC-11101-1 ..... c 54 N78-17675 *
NASA-CASE-ARC-11104-1 ..... c 15 N79-26100 *
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NASA-CASE-ARC-11107-1 ..... c 25 N80-16116 *
NASA-CASE-ARC-11110-1 ..... c 37 N82-24492 *
NASA-CASE-ARC-11114-1 ..... c 51 N81-14605 *
NASA-CASE-ARC-11116-1 ..... c 33 N82-24420 *
NASA-CASE-ARC-11117-1 ..... c 52 N81-14612 *
NASA-CASE-ARC-11118-1 ..... c 52 N81-29764 *
NASA-CASE-ARC-11118-2 ..... c 52 N81-14613 *
NASA-CASE-ARC-11120-1 ..... c 52 N80-18691 *
NASA-CASE-ARC-11121-1 ..... c 25 N79-14169 *
NASA-CASE-ARC-11154-1 ..... c 25 N80-23383 *
NASA-CASE-ARC-11157-1 ..... c 37 N80-18393 *
NASA-CASE-ARC-11158-1 ..... c 09 N82-24212 *
NASA-CASE-ARC-11164-1 ..... c 44 N83-34448 *
NASA-CASE-ARC-11167-1 ..... c 52 N81-25662 *
NASA-CASE-ARC-11169-1 ..... c 24 N79-24062 *
NASA-CASE-ARC-11170-1 ..... c 27 N79-11215 * #
NASA-CASE-ARC-11174-1 ..... c 24 N81-13999 *
NASA-CASE-ARC-11176-1 ..... c 27 N82-18389 *
NASA-CASE-ARC-11176-2 ..... c 27 N81-27271 *

NASA-CASE-ARC-11241-1 ..... c 25 N81-14016 *
NASA-CASE-ARC-11243-2 ..... c 23 N85-33187 *
NASA-CASE-ARC-11244-1 ..... c 23 N82-16174 *
NASA-CASE-ARC-11245-1 ..... c 28 N82-18401 *
NASA-CASE-ARC-11246-1 ..... c 31 N83-34073 *
NASA-CASE-ARC-11248-1 ..... c 27 N81-17259 *
NASA-CASE-ARC-11251-1 ..... c 37 N81-17433 *
NASA-CASE-ARC-11252-1 ..... c 25 N83-36118 *
NASA-CASE-ARC-11253-1 ..... c 27 N81-17262 *
NASA-CASE-ARC-11253-2 ..... c 27 N82-24338 *
NASA-CASE-ARC-11253-3 ..... c 27 N81-24256 *
NASA-CASE-ARC-11256-1 ..... c 15 N82-24272 *
NASA-CASE-ARC-11257-1 ..... c 04 N81-21047 *
NASA-CASE-ARC-11258-1 ..... c 52 N80-33081 * #
NASA-CASE-ARC-11261-1 ..... c 24 N83-25789 *
NASA-CASE-ARC-11264-2 ..... c 52 N83-29991 * #
NASA-CASE-ARC-11267-2 ..... c 23 N82-28353 *
*NASA-CASE-ARC-11310-1 ..... c 27 N82-24339 **
NASA-CASE-ARC-11311-1 ..... c 74 N83-13978 *
NASA-CASE-ARC-11312-1 ..... c 36 N83-34304 *
NASA-CASE-ARC-11314-1 ..... c 54 N82-26987 *
NASA-CASE-ARC-11317-1 ..... c 35 N83-34272 *
NASA-CASE-ARC-11321-1 ..... c 27 N81-27272 *
NASA-CASE-ARC-11322-1 ..... c 51 N83-28849 *
NASA-CASE-ARC-11325-1 ..... c 37 N82-22496 * #
NASA-CASE-ARC-11326-1 ..... c 25 N83-33977 *
NASA-CASE-ARC-11349-1 ..... c 37 N86-20797 * #
NASA-CASE-ARC-11354-1 ..... c 74 N83-21949 *
NASA-CASE-ARC-11359-1 ..... c 51 N84-28361 *
NASA-CASE-ARC-11361-1 ..... c 35 N84-22934 *
NASA-CASE-ARC-11363-1 ..... c 31 N87-16918 *
NASA-CASE-ARC-11368-1 ..... c 27 N83-31854 *
NASA-CASE-ARC-11368-2 ..... c 27 N85-21347 *
NASA-CASE-ARC-11368-3 ..... c 27 N84-22745 *
*NASA-CASE-ARC-11370-1 ..... c 27 N84-22750 **
NASA-CASE-ARC-11372-1 ..... c 08 N86-27288 *
NASA-CASE-ARC-11400-1 ..... c 27 N84-14322 *
NASA-CASE-ARC-11402-1 ..... c 27 N84-22744 *
NASA-CASE-ARC-11402-3 ..... c 23 N86-21582 *
NASA-CASE-ARC-11405-1 ..... c 27 N84-27884 *
NASA-CASE-ARC-11405-2 ..... c 27 N86-19455 *
NASA-CASE-ARC-11413-1 ..... c 27 N85-21348 *
NASA-CASE-ARC-11418-1 ..... c 24 N84-11213 *
*NASA-CASE-ARC-11421-2 ..... c 27 N86-31726 * #*
NASA-CASE-ARC-11421-3 ..... c 24 N86-25416 *
NASA-CASE-ARC-11422-1 ..... c 35 N86-20751 *
NASA-CASE-ARC-11423-1 ..... c 03 N84-33394 *
NASA-CASE-ARC-11424-1 ..... c 27 N85-34281 *
NASA-CASE-ARC-11425-2 ..... c 23 N87-28605 *
NASA-CASE-ARC-11425-3 ..... c 23 N90-23475 *
NASA-CASE-ARC-11425-4 ..... c 23 N90-20133 *
NASA-CASE-ARC-11426-1 ..... c 09 N84-12193 * #
NASA-CASE-ARC-11426-2 ..... c 52 N89-16256 *
NASA-CASE-ARC-11427-1 ..... c 24 N86-19380 *
NASA-CASE-ARC-11427-2 ..... c 27 N86-27451 *
NASA-CASE-ARC-11428-1 ..... c 23 N86-19376 *
NASA-CASE-ARC-11428-2 ..... c 27 N87-16909 *
NASA-CASE-ARC-11428-3 ..... c 23 N88-24692 *
NASA-CASE-ARC-11429-1-CU .... c 27 N86-20560 *
NASA-CASE-ARC-11429-2-CU .... c 27 N87-22845 *
NASA-CASE-ARC-11429-3CU ..... c 27 N87-16908 *
NASA-CASE-ARC-11429-4CU ..... c 27 N87-15304 *
NASA-CASE-ARC-11444-1 ..... c 05 N85-29947 *
NASA-CASE-ARC-11502-1 ..... c 74 N86-20125 *
NASA-CASE-ARC-11503-1 ..... c 35 N85-34374 *
NASA-CASE-ARC-11504-1 ..... c 09 N86-32447 *
NASA-CASE-ARC-11505-1 ..... c 18 N84-22612 * #
NASA-CASE-ARC-11505-2 ..... c 18 N89-25266 *
NASA-CASE-ARC-11506-2 ..... c 23 N86-32525 *
NASA-CASE-ARC-11510-1 ..... c 35 N86-32697 *
NASA-CASE-ARC-11511-2 ..... c 27 N87-21112 *
NASA-CASE-ARC-11512-2 ..... c 27 N86-32568 * #
NASA-CASE-ARC-11522-2 ..... c 27 N85-34280 *
NASA-CASE-ARC-11525-1 ..... c 37 N86-27629 *
NASA-CASE-ARC-11533-1 ..... c 27 N87-23751 *
NASA-CASE-ARC-11533-2 ..... c 27 N89-16042 *
NASA-CASE-ARC-11533-3 ..... c 27 N87-24564 *
*NASA-CASE-ARC-11534-1 ..... c 54 N86-29507 * #*
NASA-CASE-ARC-11536-1 ..... c 33 N89-14384 *
NASA-CASE-ARC-11538-1SB ..... c 24 N86-21590 *
NASA-CASE-ARC-11543-1 ..... c 54 N86-28620 *
NASA-CASE-ARC-11547-1 ..... c 36 N87-17026 *
NASA-CASE-ARC-11548-1 ..... c 27 N87-25469 *
NASA-CASE-ARC-11610-1 ..... c 54 N86-28619 *
NASA-CASE-ARC-11611-1 ..... c 74 N87-28416 *
NASA-CASE-ARC-11613-1 ..... c 33 N87-28833 *
NASA-CASE-ARC-11615-1SB ..... c 24 N86-28131 *
NASA-CASE-ARC-11616-1 ..... c 54 N86-28618 *
NASA-CASE-ARC-11620-1 ..... c 37 N87-25573 *
NASA-CASE-ARC-11622-1 ..... c 44 N88-14492 *
NASA-CASE-ARC-11631-1 ..... c 34 N87-21255 *
NASA-CASE-ARC-11633-1 ..... c 08 N87-23631 *
NASA-CASE-ARC-11634-1 ..... c 36 N88-14350 *
NASA-CASE-ARC-11635-1 ..... c 18 N90-16860 *
NASA-CASE-ARC-11636-1 ..... c 05 N88-28914 *
NASA-CASE-ARC-11641-1 ..... c 24 N88-18628 *

*NASA-CASE-ARC-11643-1-SB ..... c 23 N87-23698 **
NASA-CASE-ARC-11646-1 ..... c 14 N87-25344 *
NASA-CASE-ARC-11649-1-SB ..... c 27 N88-29040 *
NASA-CASE-ARC-11649-2-SB ..... c 27 N90-21177 *
NASA-CASE-ARC-11652-1 ..... c 27 N87-23737 * #
NASA-CASE-ARC-11873-2 ..... c 25 N91-31258 *
NASA-CASE-ARC-11876-1 ..... c 36 N90-25340 *
NASA-CASE-ARC-11877-1-SB ..... c 09 N91-14357 *
NASA-CASE-ARC-11882-1-CU .... c 54 N93-14713 *
NASA-CASE-ARC-11886-1-SB ..... c 35 N91-14591 *
NASA-CASE-ARC-11888-1 ..... c 24 N92-16026 *
NASA-CASE-ARC-11891-2-SB ..... c 27 N92-34160 *
NASA-CASE-ARC-11892-1-SB ..... c 74 N92-16810 *
NASA-CASE-ARC-11909-1 ..... c 03 N91-31113 *
NASA-CASE-ARC-11916-1-SB ..... c 74 N92-16811 *
NASA-CASE-ARC-11917-1 ..... c 35 N91-15520 * #
NASA-CASE-ARC-11921-1 ..... c 34 N92-11286 * #
*NASA-CASE-ARC-11408-1 ..... c 27 N82-33523 * #*

NASA-CASE-ERC-10001 ..... c 23 N71-24868 *
NASA-CASE-ERC-10011 ..... c 07 N71-29065 *
NASA-CASE-ERC-10013 ..... c 09 N71-26678 *
NASA-CASE-ERC-10014 ..... c 14 N71-28863 *
NASA-CASE-ERC-10015-2 ..... c 10 N72-27246 *
NASA-CASE-ERC-10017 ..... c 16 N71-15567 *
NASA-CASE-ERC-10019 ..... c 16 N71-15551 *
NASA-CASE-ERC-10020 ..... c 16 N71-26154 *
NASA-CASE-ERC-10022 ..... c 15 N71-26635 *
NASA-CASE-ERC-10031 ..... c 12 N71-18603 *
NASA-CASE-ERC-10032 ..... c 10 N71-25900 *
NASA-CASE-ERC-10033 ..... c 14 N71-26672 *
NASA-CASE-ERC-10034 ..... c 15 N71-24896 *
NASA-CASE-ERC-10041 ..... c 08 N71-29138 *
NASA-CASE-ERC-10044-1 ..... c 14 N71-27090 *
NASA-CASE-ERC-10045 ..... c 15 N71-24910 *
NASA-CASE-ERC-10046 ..... c 10 N71-18722 *
NASA-CASE-ERC-10048 ..... c 09 N72-25251 *
NASA-CASE-ERC-10065 ..... c 09 N71-27364 *
NASA-CASE-ERC-10072 ..... c 09 N70-11148 * #
NASA-CASE-ERC-10073-1 ..... c 24 N74-19769 *
NASA-CASE-ERC-10075-2 ..... c 09 N72-22196 *
NASA-CASE-ERC-10075 ..... c 09 N71-24800 *
NASA-CASE-ERC-10081 ..... c 14 N72-28437 *
*NASA-CASE-ERC-10087-2 ..... c 14 N72-31446 **
NASA-CASE-ERC-10087 ..... c 14 N71-27334 *
NASA-CASE-ERC-10088 ..... c 26 N71-25490 *
NASA-CASE-ERC-10089 ..... c 23 N72-17747 *
NASA-CASE-ERC-10090 ..... c 21 N71-24948 *
NASA-CASE-ERC-10097 ..... c 15 N71-28465 *
NASA-CASE-ERC-10098 ..... c 09 N71-28618 *
NASA-CASE-ERC-10100 ..... c 09 N71-33519 *
NASA-CASE-ERC-10108 ..... c 06 N72-21094 *
NASA-CASE-ERC-10112 ..... c 07 N72-21119 *
NASA-CASE-ERC-10113 ..... c 09 N71-27053 *
NASA-CASE-ERC-10119 ..... c 26 N72-21701 *
NASA-CASE-ERC-10120 ..... c 26 N69-33482 * #
NASA-CASE-ERC-10125 ..... c 09 N71-24893 *
NASA-CASE-ERC-10138 ..... c 26 N71-14354 *
NASA-CASE-ERC-10139 ..... c 09 N72-17154 *
NASA-CASE-ERC-10150 ..... c 14 N71-28992 *
NASA-CASE-ERC-10151 ..... c 16 N71-29131 *
NASA-CASE-ERC-10174 ..... c 14 N72-25409 *
NASA-CASE-ERC-10178 ..... c 16 N71-24832 *
NASA-CASE-ERC-10179 ..... c 07 N72-20141 *
NASA-CASE-ERC-10180-1 ..... c 60 N74-20836 *
NASA-CASE-ERC-10187 ..... c 16 N69-31343 * #
NASA-CASE-ERC-10208 ..... c 15 N70-10867 * #
NASA-CASE-ERC-10214 ..... c 09 N72-31235 *
NASA-CASE-ERC-10222 ..... c 09 N72-22199 *
NASA-CASE-ERC-10224-2 ..... c 09 N73-27150 * #
NASA-CASE-ERC-10224 ..... c 09 N72-25261 *
NASA-CASE-ERC-10226-1 ..... c 14 N73-16483 *
NASA-CASE-ERC-10248 ..... c 14 N72-17323 *
NASA-CASE-ERC-10267 ..... c 09 N72-23173 *
NASA-CASE-ERC-10268 ..... c 09 N72-25252 *
NASA-CASE-ERC-10275 ..... c 26 N72-25680 *
NASA-CASE-ERC-10276 ..... c 14 N73-26432 *
*NASA-CASE-ERC-10283 ..... c 16 N72-25485 **
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NASA-CASE-ERC-10292 ..... c 14 N72-25410 *
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NASA-CASE-ERC-10324 ..... c 07 N72-25173 *
NASA-CASE-ERC-10325 ..... c 15 N72-25457 *
NASA-CASE-ERC-10338 ..... c 04 N72-33072 *
NASA-CASE-ERC-10339-1 ..... c 18 N73-30532 *
NASA-CASE-ERC-10350 ..... c 14 N73-20474 *
NASA-CASE-ERC-10363 ..... c 18 N72-25541 *
NASA-CASE-ERC-10364 ..... c 18 N72-25540 *
NASA-CASE-ERC-10365-1 ..... c 31 N73-32749 *
NASA-CASE-ERC-10392 ..... c 21 N73-14692 *
NASA-CASE-ERC-10403-1 ..... c 10 N73-26228 *
NASA-CASE-ERC-10412-1 ..... c 09 N73-12211 *
NASA-CASE-ERC-10419-1 ..... c 03 N75-30132 *
NASA-CASE-ERC-10439 ..... c 02 N73-19004 *
NASA-CASE-ERC-10468 ..... c 09 N72-20206 * #
NASA-CASE-ERC-10552 ..... c 09 N71-12539 *

NASA-CASE-ERC-11020 ..... c 14 N71-26774 *

NASA-CASE-FRC-10005 ..... c 15 N71-26145 *
NASA-CASE-FRC-10010 ..... c 10 N71-24862 *
NASA-CASE-FRC-10012 ..... c 14 N72-17329 *
NASA-CASE-FRC-10019 ..... c 15 N73-12487 *
NASA-CASE-FRC-10022 ..... c 12 N71-26546 *
NASA-CASE-FRC-10029-2 ..... c 05 N72-25121 *
NASA-CASE-FRC-10029 ..... c 09 N71-24618 *
NASA-CASE-FRC-10036 ..... c 09 N72-22200 *
NASA-CASE-FRC-10038 ..... c 15 N72-20444 *
NASA-CASE-FRC-10049-1 ..... c 04 N74-13420 *
NASA-CASE-FRC-10051-1 ..... c 35 N74-13129 *
NASA-CASE-FRC-10053 ..... c 14 N70-35587 * #
NASA-CASE-FRC-10060-1 ..... c 14 N73-27379 *
NASA-CASE-FRC-10063 ..... c 01 N71-12217 * #
NASA-CASE-FRC-10071-1 ..... c 32 N74-20813 *
*NASA-CASE-FRC-10072-1 ..... c 33 N74-14939 **
NASA-CASE-FRC-10081-1 ..... c 37 N77-14477 *
NASA-CASE-FRC-10090-1 ..... c 33 N78-18308 *
NASA-CASE-FRC-10092-1 ..... c 05 N79-12061 *
NASA-CASE-FRC-10093-1 ..... c 35 N80-20560 *
NASA-CASE-FRC-10111-1 ..... c 37 N79-10419 *
NASA-CASE-FRC-10112-1 ..... c 35 N81-26431 *
NASA-CASE-FRC-10113-1 ..... c 33 N80-26599 *
NASA-CASE-FRC-10116-1 ..... c 33 N79-23345 *
NASA-CASE-FRC-11005-1 ..... c 06 N82-16075 *
NASA-CASE-FRC-11007-2 ..... c 05 N82-26277 *
NASA-CASE-FRC-11009-1 ..... c 06 N80-18036 *
NASA-CASE-FRC-11012-1 ..... c 52 N80-23969 *
NASA-CASE-FRC-11013-1 ..... c 43 N81-17499 *
NASA-CASE-FRC-11014-1 ..... c 33 N82-18494 *
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NASA-CASE-FRC-11025-1 ..... c 33 N82-24417 *
NASA-CASE-FRC-11026-1 ..... c 24 N82-24296 *
NASA-CASE-FRC-11029-1 ..... c 06 N81-17057 *
NASA-CASE-FRC-11041-1 ..... c 33 N82-18493 *
NASA-CASE-FRC-11042-1 ..... c 60 N82-24839 *
NASA-CASE-FRC-11043-1 ..... c 06 N83-33882 *
NASA-CASE-FRC-11044-1 ..... c 37 N81-33483 *
NASA-CASE-FRC-11052-1 ..... c 04 N82-23231 *
NASA-CASE-FRC-11055-1 ..... c 33 N80-29583 * #
NASA-CASE-FRC-11058-1 ..... c 85 N82-33288 *
*NASA-CASE-FRC-11062-1 ..... c 71 N82-16800 **
NASA-CASE-FRC-11065-1 ..... c 05 N83-19737 *
NASA-CASE-FRC-11068-1 ..... c 35 N84-12443 *
NASA-CASE-FRC-11072-1 ..... c 05 N83-27975 *

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NASA-CASE-GSC-10018-1 ..... c 44 N82-24644 *
NASA-CASE-GSC-10019-1 ..... c 44 N82-24641 *
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NASA-CASE-GSC-10022-1 ..... c 10 N71-25882 *
NASA-CASE-GSC-10041-1 ..... c 10 N71-19418 *
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NASA-CASE-GSC-10064-1 ..... c 10 N72-22235 *
NASA-CASE-GSC-10065-1 ..... c 10 N71-27136 *
NASA-CASE-GSC-10072 ..... c 18 N71-14014 *
NASA-CASE-GSC-10082-1 ..... c 10 N72-20221 *
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NASA-CASE-GSC-10087-1 ..... c 02 N71-19287 *
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NASA-CASE-GSC-10087-4 ..... c 07 N73-20174 *
NASA-CASE-GSC-10097-1 ..... c 08 N71-27210 *
NASA-CASE-GSC-10114-1 ..... c 10 N71-27366 *
NASA-CASE-GSC-10118-1 ..... c 07 N71-24621 *
NASA-CASE-GSC-10131-1 ..... c 07 N71-24624 *
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NASA-CASE-GSC-10186 ..... c 08 N71-33110 *
NASA-CASE-GSC-10188-1 ..... c 23 N71-24725 *
NASA-CASE-GSC-10216-1 ..... c 23 N71-26722 *
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NASA-CASE-GSC-10220-1 ..... c 07 N71-27233 *
NASA-CASE-GSC-10221-1 ..... c 09 N72-23171 *
*NASA-CASE-GSC-10225-1 ..... c 06 N73-27086 **
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NASA-CASE-GSC-10303 ..... c 15 N72-22487 *
NASA-CASE-GSC-10306-1 ..... c 15 N71-24694 *
NASA-CASE-GSC-10344-1 ..... c 03 N72-27053 *
NASA-CASE-GSC-10349-1 ..... c 44 N82-24645 *
NASA-CASE-GSC-10350-1 ..... c 44 N82-24642 *
NASA-CASE-GSC-10361-1 ..... c 18 N72-23581 *
NASA-CASE-GSC-10366-1 ..... c 10 N71-18772 *
NASA-CASE-GSC-10373-1 ..... c 07 N71-19773 *
NASA-CASE-GSC-10376-1 ..... c 14 N71-27407 *
NASA-CASE-GSC-10390-1 ..... c 07 N72-11149 *
NASA-CASE-GSC-10413 ..... c 10 N71-26531 *
NASA-CASE-GSC-10441-1 ..... c 14 N71-27325 *
NASA-CASE-GSC-10452 ..... c 07 N71-12396 *
NASA-CASE-GSC-10487-1 ..... c 03 N71-24719 *
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NASA-CASE-GSC-10514-1 ..... c 14 N72-20379 *
NASA-CASE-GSC-10518-1 ..... c 15 N72-22489 *

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NASA-CASE-GSC-10555-1 ..... c 21 N71-27324 *
NASA-CASE-GSC-10556-1 ..... c 31 N71-26537 *
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NASA-CASE-GSC-10564 ..... c 10 N71-29135 *
NASA-CASE-GSC-10565-1 ..... c 06 N72-25149 *
NASA-CASE-GSC-10566-1 ..... c 15 N72-18477 *
NASA-CASE-GSC-10590-1 ..... c 31 N73-14853 *
NASA-CASE-GSC-10607-1 ..... c 15 N72-20442 *
NASA-CASE-GSC-10614-1 ..... c 09 N72-11224 *
NASA-CASE-GSC-10640-1 ..... c 28 N72-18766 *
NASA-CASE-GSC-10656-1 ..... c 09 N72-25249 *
NASA-CASE-GSC-10667-1 ..... c 10 N71-33129 *
NASA-CASE-GSC-10668-1 ..... c 07 N71-28430 *
NASA-CASE-GSC-10669-1 ..... c 03 N72-20031 *
NASA-CASE-GSC-10695-1 ..... c 09 N72-25259 *
NASA-CASE-GSC-10700 ..... c 23 N71-30027 *
NASA-CASE-GSC-10709-1 ..... c 28 N71-25213 *
NASA-CASE-GSC-10710-1 ..... c 28 N71-27094 *
NASA-CASE-GSC-10735-1 ..... c 10 N71-26085 *
NASA-CASE-GSC-10780-1 ..... c 14 N72-16283 *
NASA-CASE-GSC-10786-1 ..... c 10 N72-28241 *
NASA-CASE-GSC-10791-1 ..... c 15 N73-14469 *
NASA-CASE-GSC-10814-1 ..... c 03 N73-20039 *
NASA-CASE-GSC-10835-1 ..... c 09 N72-33205 *
NASA-CASE-GSC-10878-1 ..... c 10 N72-22236 *
NASA-CASE-GSC-10879-1 ..... c 14 N72-25413 *
NASA-CASE-GSC-10880-1 ..... c 08 N72-11172 *
NASA-CASE-GSC-10890-1 ..... c 21 N73-30640 *
NASA-CASE-GSC-10891-1 ..... c 10 N71-26626 *
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NASA-CASE-GSC-10913 ..... c 15 N72-22491 *
NASA-CASE-GSC-10945-1 ..... c 21 N72-31637 *
NASA-CASE-GSC-10949-1 ..... c 07 N71-28965 * #
NASA-CASE-GSC-10975-1 ..... c 08 N73-13187 *
NASA-CASE-GSC-10984-1 ..... c 37 N75-26371 *
NASA-CASE-GSC-10990-1 ..... c 09 N73-26195 *
NASA-CASE-GSC-11013-1 ..... c 09 N73-19234 *
NASA-CASE-GSC-11018-1 ..... c 31 N73-30829 *
NASA-CASE-GSC-11046-1 ..... c 07 N73-28013 *
NASA-CASE-GSC-11063-1 ..... c 37 N77-27400 *
NASA-CASE-GSC-11074-1 ..... c 14 N73-28489 *
NASA-CASE-GSC-11077-1 ..... c 02 N73-13008 *
NASA-CASE-GSC-11079-1 ..... c 37 N75-18574 *
NASA-CASE-GSC-11092-2 ..... c 04 N73-27052 *
NASA-CASE-GSC-11095-1 ..... c 14 N72-10375 * #
NASA-CASE-GSC-11126-1 ..... c 09 N72-25253 *
NASA-CASE-GSC-11127-1 ..... c 09 N75-24758 *
NASA-CASE-GSC-11133-1 ..... c 23 N72-11568 * #
NASA-CASE-GSC-11139 ..... c 09 N71-27016 *
NASA-CASE-GSC-11149-1 ..... c 15 N73-30457 *
NASA-CASE-GSC-11163-1 ..... c 15 N73-32360 *
NASA-CASE-GSC-11169-2 ..... c 05 N73-32011 *
NASA-CASE-GSC-11182-1 ..... c 15 N75-13007 *
NASA-CASE-GSC-11188-1 ..... c 14 N73-32320 *
NASA-CASE-GSC-11188-2 ..... c 21 N73-19630 * #
NASA-CASE-GSC-11188-3 ..... c 74 N74-20008 *
NASA-CASE-GSC-11205-1 ..... c 15 N73-25513 *
NASA-CASE-GSC-11211-1 ..... c 03 N72-25020 *
NASA-CASE-GSC-11214-1 ..... c 06 N73-13128 *
NASA-CASE-GSC-11215-1 ..... c 09 N73-28083 *
NASA-CASE-GSC-11222-1 ..... c 16 N73-32391 *
NASA-CASE-GSC-11239-1 ..... c 10 N73-25241 *
NASA-CASE-GSC-11262-1 ..... c 36 N74-21091 *
NASA-CASE-GSC-11291-1 ..... c 25 N72-33696 *
NASA-CASE-GSC-11296-1 ..... c 23 N73-30666 *
NASA-CASE-GSC-11302-1 ..... c 14 N73-13416 *
NASA-CASE-GSC-11304-1 ..... c 06 N72-21105 * #
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NASA-CASE-GSC-11358-1 ..... c 06 N73-26100 *
NASA-CASE-GSC-11367-1 ..... c 44 N74-19692 *
NASA-CASE-GSC-11367 ..... c 10 N71-26374 *
NASA-CASE-GSC-11368-1 ..... c 09 N73-32108 *
NASA-CASE-GSC-11394-1 ..... c 09 N73-32109 *
NASA-CASE-GSC-11425-1 ..... c 76 N74-20329 *
NASA-CASE-GSC-11425-2 ..... c 76 N75-25730 *
NASA-CASE-GSC-11428-1 ..... c 32 N74-20864 *
NASA-CASE-GSC-11434-1 ..... c 34 N74-27859 *
NASA-CASE-GSC-11444-1 ..... c 14 N73-28490 *
NASA-CASE-GSC-11445-1 ..... c 31 N74-27902 *
NASA-CASE-GSC-11446-1 ..... c 33 N74-20860 *
NASA-CASE-GSC-11479-1 ..... c 35 N74-28097 *
NASA-CASE-GSC-11487-1 ..... c 14 N73-30393 *
NASA-CASE-GSC-11492-1 ..... c 35 N74-26949 *
NASA-CASE-GSC-11513-1 ..... c 33 N74-20862 *
NASA-CASE-GSC-11514-1 ..... c 03 N72-24037 *
NASA-CASE-GSC-11531-1 ..... c 52 N74-27566 *
NASA-CASE-GSC-11533-1 ..... c 14 N73-13435 * #
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NASA-CASE-GSC-11553-1 ..... c 35 N74-15831 *
NASA-CASE-GSC-11560-1 ..... c 33 N74-20861 *
NASA-CASE-GSC-11569-1 ..... c 89 N74-30886 *
NASA-CASE-GSC-11571-1 ..... c 36 N77-25499 *
NASA-CASE-GSC-11577-1 ..... c 37 N75-15992 *
NASA-CASE-GSC-11577-3 ..... c 24 N79-25143 *
NASA-CASE-GSC-11582-1 ..... c 33 N75-19517 *
NASA-CASE-GSC-11600-1 ..... c 35 N74-21019 *
NASA-CASE-GSC-11602-1 ..... c 33 N74-21850 *
NASA-CASE-GSC-11617-1 ..... c 33 N74-32660 *
NASA-CASE-GSC-11619-1 ..... c 34 N75-12222 *
NASA-CASE-GSC-11620-1 ..... c 34 N74-23039 *
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NASA-CASE-GSC-11752-1 ..... c 77 N75-20140 *
NASA-CASE-GSC-11760-1 ..... c 33 N75-19516 *
NASA-CASE-GSC-11782-1 ..... c 74 N76-30053 *
NASA-CASE-GSC-11783-1 ..... c 33 N75-19516 *
NASA-CASE-GSC-11786-1 ..... c 24 N76-24363 *
NASA-CASE-GSC-11789-1 ..... c 33 N77-14333 *
NASA-CASE-GSC-11824-1 ..... c 33 N77-26386 *
NASA-CASE-GSC-11829-1 ..... c 35 N75-27331 *
NASA-CASE-GSC-11839-1 ..... c 60 N77-14751 *
NASA-CASE-GSC-11839-2 ..... c 60 N78-10709 *
NASA-CASE-GSC-11839-3 ..... c 60 N77-32731 *
NASA-CASE-GSC-11844-1 ..... c 33 N75-19522 *
NASA-CASE-GSC-11849-1 ..... c 33 N76-16332 *
NASA-CASE-GSC-11862-1 ..... c 32 N76-18295 *
NASA-CASE-GSC-11868-1 ..... c 17 N76-22245 *
NASA-CASE-GSC-11877-1 ..... c 74 N76-18913 *
NASA-CASE-GSC-11883-1 ..... c 37 N77-19458 *
NASA-CASE-GSC-11883-2 ..... c 37 N78-31426 *
NASA-CASE-GSC-11889-1 ..... c 35 N76-16393 *
NASA-CASE-GSC-11892-1 ..... c 35 N76-15433 *
NASA-CASE-GSC-11893-1 ..... c 35 N76-31489 *
NASA-CASE-GSC-11895-1 ..... c 35 N76-15436 *
NASA-CASE-GSC-11898-1 ..... c 32 N77-30309 *
NASA-CASE-GSC-11902-1 ..... c 38 N77-17495 *
NASA-CASE-GSC-11909 ..... c 32 N74-20863 *
NASA-CASE-GSC-11917-2 ..... c 51 N76-29891 *
NASA-CASE-GSC-11924-1 ..... c 33 N76-27472 *
NASA-CASE-GSC-11925-1 ..... c 33 N76-18353 *
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NASA-CASE-GSC-12022-1 ..... c 44 N76-28635 *
NASA-CASE-GSC-12022-2 ..... c 44 N78-24609 *
NASA-CASE-GSC-12023-1 ..... c 44 N76-28635 *
NASA-CASE-GSC-12030-1 ..... c 44 N78-24608 *
NASA-CASE-GSC-12032-2 ..... c 43 N82-13465 *
NASA-CASE-GSC-12039-1 ..... c 51 N77-22794 *
NASA-CASE-GSC-12044-1 ..... c 60 N78-17691 *
NASA-CASE-GSC-12046-1 ..... c 52 N79-14750 *
NASA-CASE-GSC-12053-1 ..... c 32 N77-28346 *
NASA-CASE-GSC-12058-1 ..... c 74 N77-26942 *
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NASA-CASE-GSC-12077-1 ..... c 35 N77-24455 *
NASA-CASE-GSC-12081-2 ..... c 52 N82-22875 *
NASA-CASE-GSC-12082-1 ..... c 54 N76-22914 *
NASA-CASE-GSC-12082-2 ..... c 52 N81-25661 *
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NASA-CASE-GSC-12088-1 ..... c 74 N78-13874 *
NASA-CASE-GSC-12110-1 ..... c 27 N77-32308 *
NASA-CASE-GSC-12111-2 ..... c 33 N81-29342 *
NASA-CASE-GSC-12115-1 ..... c 62 N76-31946 *
NASA-CASE-GSC-12137-1 ..... c 33 N78-32338 *
NASA-CASE-GSC-12138-1 ..... c 33 N79-20314 *
NASA-CASE-GSC-12143-1 ..... c 35 N77-32456 *
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NASA-CASE-GSC-12190-1 ..... c 33 N79-12321 *
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NASA-CASE-GSC-12194-2 ..... c 20 N82-18314 *
NASA-CASE-GSC-12207-1 ..... c 24 N79-14156 *
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NASA-CASE-GSC-12447-2 ..... c 60 N84-28491 *
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NASA-CASE-GSC-12756-1 ..... c 74 N84-23248 *
NASA-CASE-GSC-12761-1 ..... c 74 N86-32266 *
NASA-CASE-GSC-12762-1 ..... c 37 N84-28083 *
NASA-CASE-GSC-12770-1 ..... c 25 N83-29324 *
NASA-CASE-GSC-12771-1 ..... c 34 N84-14461 *
NASA-CASE-GSC-12773-2 ..... c 33 N87-23904 *
NASA-CASE-GSC-12782-1 ..... c 33 N88-14271 *
NASA-CASE-GSC-12788-1 ..... c 33 N85-29145 *
NASA-CASE-GSC-12789-1 ..... c 35 N85-20294 *
NASA-CASE-GSC-12795-1 ..... c 35 N86-19580 *
NASA-CASE-GSC-12799-1 ..... c 31 N85-21404 *
NASA-CASE-GSC-12804-1 ..... c 33 N86-20668 *
NASA-CASE-GSC-12808-1 ..... c 25 N85-21279 *
NASA-CASE-GSC-12812-1 ..... c 34 N83-35307 *
NASA-CASE-GSC-12816-1 ..... c 76 N86-20150 *
NASA-CASE-GSC-12817-1 ..... c 33 N85-29146 *
NASA-CASE-GSC-12818-1 ..... c 33 N85-29147 *
NASA-CASE-GSC-12821-2 ..... c 33 N91-31530 *
NASA-CASE-GSC-12825-1 ..... c 74 N86-28732 *
NASA-CASE-GSC-12849-1 ..... c 74 N86-26190 *
NASA-CASE-GSC-12851-1 ..... c 35 N85-30281 *
NASA-CASE-GSC-12880-1 ..... c 26 N86-32550 *
NASA-CASE-GSC-12883-1 ..... c 27 N85-29044 *
NASA-CASE-GSC-12892-1 ..... c 32 N89-14374 *
NASA-CASE-GSC-12897-1 ..... c 74 N87-21679 *
NASA-CASE-GSC-12899-1 ..... c 33 N86-20669 *
NASA-CASE-GSC-12911-1 ..... c 74 N86-29650 * #
NASA-CASE-GSC-12944-1 ..... c 52 N86-19885 * #
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NASA-CASE-GSC-12961-1 ..... c 33 N87-22895 *

NASA-CASE-GSC-12970-1 ..... c 08 N88-23808 *
NASA-CASE-GSC-13008-1 ..... c 27 N88-23894 *
NASA-CASE-GSC-13008-2 ..... c 27 N90-16949 *
NASA-CASE-GSC-13018-1 ..... c 33 N87-21232 *
NASA-CASE-GSC-13019-1 ..... c 34 N88-29133 *
NASA-CASE-GSC-13027-1-CU .... c 35 N91-27522 *
NASA-CASE-GSC-13063-2-CU .... c 33 N92-16197 *
NASA-CASE-GSC-13112-1 ..... c 31 N89-29578 *
NASA-CASE-GSC-13127-1 ..... c 37 N91-17388 *
NASA-CASE-GSC-13141-1 ..... c 37 N92-23548 * #
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NASA-CASE-GSC-13161-1 ..... c 37 N92-33634 *
NASA-CASE-GSC-13173-1 ..... c 33 N90-23635 *
NASA-CASE-GSC-13175-1 ..... c 74 N92-29133 *
NASA-CASE-GSC-13179-1 ..... c 33 N91-26438 *
NASA-CASE-GSC-13187-1 ..... c 33 N92-29153 *
NASA-CASE-GSC-13189-2 ..... c 37 N92-29151 *
NASA-CASE-GSC-13194-1 ..... c 36 N93-18287 *
NASA-CASE-GSC-13196-1 ..... c 60 N92-29132 *
NASA-CASE-GSC-13197-1 ..... c 18 N91-27201 *
NASA-CASE-GSC-13199-1 ..... c 27 N90-23541 *
NASA-CASE-GSC-13200-1 ..... c 37 N92-21500 *
NASA-CASE-GSC-13212-1 ..... c 43 N91-32546 *
NASA-CASE-GSC-13220-1 ..... c 37 N92-29140 *
NASA-CASE-GSC-13230-1 ..... c 37 N92-28754 *
NASA-CASE-GSC-13237-1 ..... c 33 N91-14550 *
NASA-CASE-GSC-13239-1 ..... c 37 N91-31656 *
NASA-CASE-GSC-13240-1 ..... c 35 N92-10186 *
NASA-CASE-GSC-13251-1 ..... c 37 N92-29120 *
NASA-CASE-GSC-13261-1 ..... c 37 N92-29138 *
NASA-CASE-GSC-13265-1 ..... c 76 N91-14066 * #
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NASA-CASE-GSC-13406-1 ..... c 35 N92-33614 *
NASA-CASE-GSC-13408-1 ..... c 18 N92-24244 * #
NASA-CASE-GSC-13415-1 ..... c 37 N92-33616 *
NASA-CASE-GSC-13422-1 ..... c 33 N92-23462 * #
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NASA-CASE-GSC-13451-1 ..... c 39 N92-23549 * #

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NASA-CASE-HQN-00936 ..... c 31 N71-29050 *
NASA-CASE-HQN-00937 ..... c 07 N71-28979 *
NASA-CASE-HQN-00938 ..... c 33 N71-29053 *
NASA-CASE-HQN-10037-1 ..... c 14 N73-27376 * #
NASA-CASE-HQN-10069 ..... c 33 N75-27251 *
NASA-CASE-HQN-10274-1 ..... c 27 N82-29451 *
NASA-CASE-HQN-10328-2 ..... c 27 N82-29454 *
NASA-CASE-HQN-10364 ..... c 06 N71-27363 *
NASA-CASE-HQN-10439 ..... c 21 N72-21624 *
NASA-CASE-HQN-10462 ..... c 25 N75-29192 *
NASA-CASE-HQN-10537-1 ..... c 06 N72-10138 * #
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NASA-CASE-HQN-10541-3 ..... c 23 N72-23695 *
NASA-CASE-HQN-10541-4 ..... c 16 N71-27183 *
NASA-CASE-HQN-10542-1 ..... c 74 N75-25706 *
NASA-CASE-HQN-10595-1 ..... c 27 N82-29455 *
NASA-CASE-HQN-10638-1 ..... c 15 N73-30460 *
NASA-CASE-HQN-10654-1 ..... c 16 N73-13489 *
NASA-CASE-HQN-10683 ..... c 14 N71-34389 * #
NASA-CASE-HQN-10703 ..... c 21 N73-13643 *
NASA-CASE-HQN-10740-1 ..... c 72 N74-19310 *
NASA-CASE-HQN-10756-1 ..... c 14 N72-25428 * #
NASA-CASE-HQN-10780 ..... c 14 N71-30265 *
NASA-CASE-HQN-10781 ..... c 23 N71-30292 *
NASA-CASE-HQN-10790-1 ..... c 36 N74-11313 *
NASA-CASE-HQN-10792-1 ..... c 33 N74-11049 *
NASA-CASE-HQN-10832-1 ..... c 71 N74-21014 *
NASA-CASE-HQN-10841-1 ..... c 73 N78-19920 *
NASA-CASE-HQN-10844-1 ..... c 36 N75-19653 *
NASA-CASE-HQN-10862-1 ..... c 44 N76-29699 *
NASA-CASE-HQN-10876-1 ..... c 33 N76-27473 *
NASA-CASE-HQN-10880-1 ..... c 17 N78-17140 *
NASA-CASE-HQN-10888-1 ..... c 44 N79-14527 *
NASA-CASE-HQN-10931-2 ..... c 27 N82-29452 *

NASA-CASE-KSC-10002 ..... c 10 N71-25865 *
NASA-CASE-KSC-10003 ..... c 10 N73-13235 *
NASA-CASE-KSC-10020 ..... c 10 N71-27338 *
NASA-CASE-KSC-10031 ..... c 15 N72-22486 *
NASA-CASE-KSC-10108 ..... c 14 N73-25461 *
NASA-CASE-KSC-10126 ..... c 11 N71-24985 *
NASA-CASE-KSC-10162 ..... c 09 N72-11225 *
NASA-CASE-KSC-10164 ..... c 07 N71-33108 *
NASA-CASE-KSC-10198 ..... c 11 N71-28629 *
NASA-CASE-KSC-10242 ..... c 15 N72-23497 *
NASA-CASE-KSC-10278 ..... c 05 N72-16015 *
NASA-CASE-KSC-10294 ..... c 14 N72-18411 *
NASA-CASE-KSC-10326 ..... c 08 N72-21197 *
NASA-CASE-KSC-10392 ..... c 07 N73-26117 *
NASA-CASE-KSC-10393 ..... c 09 N72-21247 *
NASA-CASE-KSC-10397 ..... c 08 N72-25206 *
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NASA-CASE-KSC-10595 ..... c 08 N73-12176 *
NASA-CASE-KSC-10615 ..... c 15 N73-12486 *
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NASA-CASE-KSC-10647-1 ..... c 10 N72-31273 *
NASA-CASE-KSC-10654-1 ..... c 07 N73-30115 *
NASA-CASE-KSC-10698 ..... c 07 N73-20175 *
NASA-CASE-KSC-10723-1 ..... c 37 N75-13265 *
NASA-CASE-KSC-10728-1 ..... c 14 N73-32319 *
NASA-CASE-KSC-10729-1 ..... c 09 N73-32110 *
NASA-CASE-KSC-10730-1 ..... c 14 N73-32318 *
NASA-CASE-KSC-10731-1 ..... c 33 N74-27862 *
NASA-CASE-KSC-10736-1 ..... c 33 N75-19521 *
NASA-CASE-KSC-10750-1 ..... c 35 N75-12270 *
NASA-CASE-KSC-10769-1 ..... c 33 N74-29556 *
NASA-CASE-KSC-10782-1 ..... c 33 N75-30431 *
NASA-CASE-KSC-10807-1 ..... c 33 N75-26246 *
NASA-CASE-KSC-10834-1 ..... c 33 N76-14371 *
NASA-CASE-KSC-10849-1 ..... c 52 N77-14738 *
NASA-CASE-KSC-10899-1 ..... c 33 N79-18193 *
NASA-CASE-KSC-11004-1 ..... c 54 N77-30749 *
NASA-CASE-KSC-11008-1 ..... c 33 N79-22373 *
NASA-CASE-KSC-11010-1 ..... c 74 N79-12890 *
NASA-CASE-KSC-11018-1 ..... c 33 N79-10337 *
NASA-CASE-KSC-11023-1 ..... c 32 N79-23310 *
NASA-CASE-KSC-11025-1 ..... c 32 N83-13323 *
NASA-CASE-KSC-11030-1 ..... c 52 N77-25772 *
NASA-CASE-KSC-11031-1 ..... c 33 N79-11315 *
NASA-CASE-KSC-11034-1 ..... c 44 N78-32542 *
NASA-CASE-KSC-11035-1 ..... c 35 N78-28411 *
NASA-CASE-KSC-11042-1 ..... c 09 N82-29330 *
NASA-CASE-KSC-11042-2 ..... c 02 N81-26073 * #
NASA-CASE-KSC-11047-1 ..... c 74 N78-14889 *
NASA-CASE-KSC-11048-1 ..... c 62 N81-24779 *
NASA-CASE-KSC-11057-1 ..... c 33 N79-14305 *
NASA-CASE-KSC-11064-1 ..... c 31 N81-14137 *
NASA-CASE-KSC-11065-1 ..... c 33 N81-26359 *
NASA-CASE-KSC-11069-1 ..... c 52 N79-26772 *
NASA-CASE-KSC-11076-1 ..... c 34 N81-26402 *
NASA-CASE-KSC-11085-1 ..... c 54 N81-24724 *
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NASA-CASE-KSC-11099-1 ..... c 47 N82-24779 *
NASA-CASE-KSC-11104-1 ..... c 74 N83-29032 *
NASA-CASE-KSC-11155-1 ..... c 04 N86-19304 *
NASA-CASE-KSC-11170-1 ..... c 33 N83-36356 *
NASA-CASE-KSC-11218-1 ..... c 09 N85-19990 *
NASA-CASE-KSC-11282-1 ..... c 85 N87-21755 *
NASA-CASE-KSC-11285-1 ..... c 32 N86-27513 *
NASA-CASE-KSC-11304-2 ..... c 28 N91-14495 *
NASA-CASE-KSC-11322-1 ..... c 54 N89-29953 *
NASA-CASE-KSC-11368-1 ..... c 37 N89-13786 *
NASA-CASE-KSC-11386-1 ..... c 35 N90-22023 *
NASA-CASE-KSC-11387-1 ..... c 29 N90-20236 *
NASA-CASE-KSC-11392-1 ..... c 74 N90-22383 *
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NASA-CASE-LAR-10031 ..... c 15 N72-22484 *
NASA-CASE-LAR-10056 ..... c 05 N71-12351 *
NASA-CASE-LAR-10061-1 ..... c 15 N72-31483 *
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NASA-CASE-LAR-10089-1 ..... c 34 N74-23066 *
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NASA-CASE-LAR-10103-1 ..... c 15 N73-14468 *
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NASA-CASE-LAR-10106-1 ..... c 15 N71-27169 *
NASA-CASE-LAR-10121-1 ..... c 15 N71-26721 *
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NASA-CASE-LAR-10137-1 ..... c 09 N72-22204 *
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NASA-CASE-LAR-10184 ..... c 14 N72-22445 *
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NASA-CASE-LAR-10319-1 ..... c 14 N73-32322 *
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NASA-CASE-LAR-10323-1 ..... c 12 N71-17573 *
NASA-CASE-LAR-10337-1 ..... c 24 N75-30260 *
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NASA-CASE-LAR-10365-1 ..... c 05 N72-27102 *
NASA-CASE-LAR-10372 ..... c 09 N71-18599 *
NASA-CASE-LAR-10373-1 ..... c 18 N71-26155 *
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NASA-CASE-LAR-10385-3 ..... c 74 N78-15879 *
NASA-CASE-LAR-10403 ..... c 21 N71-11766 *
NASA-CASE-LAR-10409-1 ..... c 31 N74-21059 *
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NASA-CASE-LAR-11110-1 ..... c 34 N75-26282 *
NASA-CASE-LAR-11112-1 ..... c 32 N76-15330 *
NASA-CASE-LAR-11138 ..... c 12 N71-20436 *
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NASA-CASE-LAR-11155-1 ..... c 35 N74-15091 *
NASA-CASE-LAR-11173-1 ..... c 35 N75-19614 *
NASA-CASE-LAR-11201-1 ..... c 35 N78-24515 *
NASA-CASE-LAR-11207-1 ..... c 35 N75-19613 *
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NASA-CASE-LAR-11211-1 ..... c 37 N75-12326 *
NASA-CASE-LAR-11213-1 ..... c 35 N75-15014 *
NASA-CASE-LAR-11224-1 ..... c 37 N76-18456 *
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NASA-CASE-LAR-11263-1 ..... c 35 N75-33369 *
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NASA-CASE-LAR-11326-1 ..... c 35 N75-33368 *
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NASA-CASE-LAR-11898-2 ..... c 24 N78-17149 *
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NASA-CASE-LAR-12178-1 ..... c 74 N80-21138 *
NASA-CASE-LAR-12181-1 ..... c 27 N78-17205 *
NASA-CASE-LAR-12183-1 ..... c 36 N79-18307 *
NASA-CASE-LAR-12195-1 ..... c 31 N81-27324 *
NASA-CASE-LAR-12196-1 ..... c 33 N81-26358 *
NASA-CASE-LAR-12205-1 ..... c 44 N80-20810 *
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NASA-CASE-LAR-12230-1 ..... c 35 N79-14347 *
NASA-CASE-LAR-12250-1 ..... c 14 N81-26161 *
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NASA-CASE-LAR-12363-2 ..... c 33 N83-24763 *
NASA-CASE-LAR-12372-1 ..... c 37 N82-18601 *
NASA-CASE-LAR-12375-1 ..... c 32 N79-24203 *
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NASA-CASE-LAR-12468-1 ..... c 08 N82-32373 *
NASA-CASE-LAR-12469-1 ..... c 35 N83-21311 *
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NASA-CASE-LAR-12474-1 ..... c 35 N82-26628 *
NASA-CASE-LAR-12482-1 ..... c 37 N82-32732 *
NASA-CASE-LAR-12495-1 ..... c 44 N83-28573 *
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NASA-CASE-LAR-12620-1 ..... c 24 N82-32417 *
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NASA-CASE-LAR-12642-1 ..... c 27 N81-29229 *
NASA-CASE-LAR-12644-1 ..... c 37 N84-28084 *
NASA-CASE-LAR-12650-1 ..... c 52 N84-28388 *
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NASA-CASE-LAR-12868-1 ..... c 37 N85-21651 *
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NASA-CASE-LAR-12882-1 ..... c 35 N84-12445 *
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NASA-CASE-LAR-12884-1 ..... c 18 N84-33450 *
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NASA-CASE-LAR-12893-1 ..... c 76 N85-30923 *
NASA-CASE-LAR-12894-1 ..... c 27 N85-20125 *
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NASA-CASE-LAR-12931-1 ..... c 27 N84-22747 *
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NASA-CASE-LAR-12958-1 ..... c 44 N84-23019 *
NASA-CASE-LAR-12966-1 ..... c 35 N85-30282 *
NASA-CASE-LAR-12967-1 ..... c 35 N84-22932 *
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NASA-CASE-LAR-13202-1 ..... c 33 N88-23942 *

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NASA-CASE-LAR-13220-1 ..... c 34 N86-12547 *
NASA-CASE-LAR-13225-1 ..... c 24 N90-25197 *
NASA-CASE-LAR-13226-1 ..... c 27 N85-34282 *
NASA-CASE-LAR-13230-1 ..... c 24 N84-34571 *
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NASA-CASE-LAR-13273-2 ..... c 33 N90-20320 *
NASA-CASE-LAR-13280-1 ..... c 08 N87-20999 *
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NASA-CASE-LAR-13294-1 ..... c 35 N86-32696 *
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NASA-CASE-LAR-13306-1 ..... c 82 N87-29372 *
NASA-CASE-LAR-13310-1 ..... c 32 N87-14559 *
NASA-CASE-LAR-13316-1 ..... c 27 N86-27450 *
NASA-CASE-LAR-13316-2 ..... c 27 N87-14515 *
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NASA-CASE-LAR-13411-1-SB ..... c 18 N88-23828 *
NASA-CASE-LAR-13434-1 ..... c 37 N90-23742 *
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NASA-CASE-LAR-13474-1-SB ..... c 26 N87-25455 *
NASA-CASE-LAR-13476-1-CU ..... c 76 N87-29360 *
NASA-CASE-LAR-13486-1 ..... c 16 N90-22584 *
NASA-CASE-LAR-13489-1 ..... c 18 N87-27713 *
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NASA-CASE-LAR-13569-1 ..... c 35 N89-12841 *
NASA-CASE-LAR-13580-1 ..... c 37 N91-21541 *
NASA-CASE-LAR-13586-1 ..... c 16 N92-10035 * #
NASA-CASE-LAR-13597-1-CU ..... c 25 N87-23713 * #
NASA-CASE-LAR-13601-1-CU ..... c 27 N89-14337 *
NASA-CASE-LAR-13616-1 ..... c 74 N91-31950 *
NASA-CASE-LAR-13616-3 ..... c 74 N92-29158 *
NASA-CASE-LAR-13628-1 ..... c 35 N90-23707 *
NASA-CASE-LAR-13629-1 ..... c 09 N91-14356 *
NASA-CASE-LAR-13630-1 ..... c 08 N88-23809 *
NASA-CASE-LAR-13632-1 ..... c 26 N87-29650 * #
NASA-CASE-LAR-13633-1 ..... c 27 N87-24575 * #
NASA-CASE-LAR-13638-1 ..... c 31 N90-19427 *
NASA-CASE-LAR-13645-1 ..... c 27 N91-28424 * #
NASA-CASE-LAR-13662-1 ..... c 37 N88-14359 *
NASA-CASE-LAR-13669-1 ..... c 27 N92-29157 *
NASA-CASE-LAR-13678-1 ..... c 76 N90-24168 *
NASA-CASE-LAR-13678-3 ..... c 35 N93-14714 *
NASA-CASE-LAR-13680-1 ..... c 35 N87-25561 * #
NASA-CASE-LAR-13689-1-NP ..... c 35 N87-23941 * #
NASA-CASE-LAR-13696-1 ..... c 37 N90-20409 *
NASA-CASE-LAR-13705-1 ..... c 39 N88-25011 * #
NASA-CASE-LAR-13710-1 ..... c 35 N90-17117 *
NASA-CASE-LAR-13719-1 ..... c 37 N89-12867 * #
NASA-CASE-LAR-13724-1 ..... c 38 N90-23756 *
NASA-CASE-LAR-13732-1 ..... c 27 N87-25474 * #
NASA-CASE-LAR-13734-1-CU ..... c 09 N90-20096 *
NASA-CASE-LAR-13738-1 ..... c 18 N87-29586 * #
NASA-CASE-LAR-13740-1 ..... c 35 N90-22770 *
NASA-CASE-LAR-13741-1-SB ..... c 25 N90-20180 *
NASA-CASE-LAR-13742-1 ..... c 02 N92-21588 *
NASA-CASE-LAR-13747-1-CU ..... c 32 N89-28672 *
NASA-CASE-LAR-13761-1 ..... c 34 N90-20323 *
NASA-CASE-LAR-13772-1 ..... c 36 N92-31788 *
NASA-CASE-LAR-13773-1 ..... c 20 N90-19298 *
NASA-CASE-LAR-13775-1 ..... c 35 N90-23706 *
NASA-CASE-LAR-13776-1 ..... c 35 N88-29149 *
NASA-CASE-LAR-13777-1 ..... c 05 N90-20078 *
NASA-CASE-LAR-13780-1 ..... c 18 N92-33013 *
NASA-CASE-LAR-13785-1 ..... c 70 N91-21824 *
NASA-CASE-LAR-13797-1 ..... c 35 N88-30108 *
NASA-CASE-LAR-13798-1 ..... c 32 N89-25363 *
NASA-CASE-LAR-13805-1 ..... c 37 N92-30097 * #
NASA-CASE-LAR-13816-1 ..... c 35 N90-22025 *
NASA-CASE-LAR-13817-1 ..... c 26 N90-21170 *
NASA-CASE-LAR-13817-2 ..... c 39 N92-29155 *
NASA-CASE-LAR-13817-4 ..... c 39 N92-29101 *
NASA-CASE-LAR-13817-5 ..... c 39 N92-28757 *
NASA-CASE-LAR-13821-1 ..... c 27 N90-16950 *
NASA-CASE-LAR-13823-1 ..... c 35 N92-10182 * #
NASA-CASE-LAR-13825-1 ..... c 31 N92-16162 *
NASA-CASE-LAR-13826-1 ..... c 35 N88-29150 *
NASA-CASE-LAR-13832-1 ..... c 28 N91-28444 * #
NASA-CASE-LAR-13832-1 ..... c 28 N93-18274 *
NASA-CASE-LAR-13853-1 ..... c 35 N89-14423 *
NASA-CASE-LAR-13854-1-CU ..... c 04 N91-31120 *
NASA-CASE-LAR-13855-1 ..... c 37 N91-14615 *
NASA-CASE-LAR-13870-1-CU ..... c 05 N92-21587 *
NASA-CASE-LAR-13875-1 ..... c 05 N91-27156 *
NASA-CASE-LAR-13887-1 ..... c 36 N92-16290 *
NASA-CASE-LAR-13889-1 ..... c 39 N88-30160 * #
NASA-CASE-LAR-13898-1 ..... c 37 N91-15544 *
NASA-CASE-LAR-13901-1-NP ..... c 52 N90-21519 *
NASA-CASE-LAR-13901-2 ..... c 52 N92-11621 *
NASA-CASE-LAR-13902-1 ..... c 27 N90-23546 *
NASA-CASE-LAR-13910-2-CU ..... c 27 N91-31307 *
NASA-CASE-LAR-13924-1-CU ..... c 26 N89-28621 *
NASA-CASE-LAR-13925-1 ..... c 27 N92-21711 *
NASA-CASE-LAR-13925-2 ..... c 27 N93-11059 *
NASA-CASE-LAR-13926-1 ..... c 37 N90-22042 *
NASA-CASE-LAR-13944-1 ..... c 35 N92-11336 * #
NASA-CASE-LAR-13950-1 ..... c 60 N92-30541 * #
NASA-CASE-LAR-13952-1-SB ..... c 34 N90-19534 *
NASA-CASE-LAR-13952-2-SB ..... c 34 N91-31596 *
NASA-CASE-LAR-13963-1 ..... c 76 N90-24150 *
NASA-CASE-LAR-13965-1-CU ..... c 23 N90-21118 *
NASA-CASE-LAR-13965-2-CU ..... c 23 N91-14418 *
NASA-CASE-LAR-13966-1 ..... c 71 N91-27914 *
NASA-CASE-LAR-13968-1 ..... c 71 N91-27913 *
NASA-CASE-LAR-13981-1 ..... c 37 N91-21539 *
NASA-CASE-LAR-13983-1 ..... c 05 N90-23390 *
NASA-CASE-LAR-13985-1 ..... c 24 N91-14430 *
NASA-CASE-LAR-13988-1 ..... c 23 N89-11814 * #
NASA-CASE-LAR-13989-1 ..... c 35 N91-13694 *
NASA-CASE-LAR-13992-1-CU ..... c 23 N91-27220 *
NASA-CASE-LAR-13996-1-SB ..... c 25 N90-15161 * #
NASA-CASE-LAR-14001-1 ..... c 27 N92-33008 *
NASA-CASE-LAR-14004-1 ..... c 63 N93-19024 * #
NASA-CASE-LAR-14031-1 ..... c 05 N90-20079 *
NASA-CASE-LAR-14033-1 ..... c 34 N92-28752 *
NASA-CASE-LAR-14033-2 ..... c 34 N92-30024 * #
NASA-CASE-LAR-14036-1 ..... c 27 N91-13562 * #
NASA-CASE-LAR-14046-1 ..... c 31 N92-11219 * #
NASA-CASE-LAR-14046-1 ..... c 31 N93-18857 *
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NASA-CASE-LAR-14048-1 ..... c 31 N92-11220 * #
NASA-CASE-LAR-14049-1 ..... c 07 N89-23466 * #
NASA-CASE-LAR-14050-1 ..... c 31 N90-21216 *
NASA-CASE-LAR-14056-1 ..... c 35 N90-23713 *
NASA-CASE-LAR-14078-1-CU ..... c 34 N90-27071 * #
NASA-CASE-LAR-14088-1-CU ..... c 35 N92-33016 *
NASA-CASE-LAR-14096-1 ..... c 31 N91-31476 *
NASA-CASE-LAR-14101-1 ..... c 27 N91-15403 *
NASA-CASE-LAR-14107-1 ..... c 24 N91-25200 *
NASA-CASE-LAR-14116-1 ..... c 05 N91-14345 *
NASA-CASE-LAR-14142-1 ..... c 37 N90-27116 * #
NASA-CASE-LAR-14145-1 ..... c 27 N92-28751 *
NASA-CASE-LAR-14149-1-SB ..... c 14 N91-21176 *
NASA-CASE-LAR-14155-1-SB ..... c 25 N90-23517 *
NASA-CASE-LAR-14155-2-SB ..... c 25 N91-21270 *
NASA-CASE-LAR-14156-1 ..... c 16 N90-16781 * #
NASA-CASE-LAR-14159-1-CU ..... c 27 N92-31792 *
NASA-CASE-LAR-14162-1 ..... c 27 N90-15259 * #
NASA-CASE-LAR-14163-1 ..... c 27 N92-33014 *
NASA-CASE-LAR-14168-1 ..... c 39 N92-34174 *
NASA-CASE-LAR-14169-1 ..... c 37 N92-17677 * #
NASA-CASE-LAR-14181-1 ..... c 76 N91-21911 *
NASA-CASE-LAR-14188-1 ..... c 27 N90-23545 *
NASA-CASE-LAR-14188-2 ..... c 23 N91-14419 *
NASA-CASE-LAR-14194-1 ..... c 24 N90-15148 * #
NASA-CASE-LAR-14198-1 ..... c 27 N90-26956 * #
NASA-CASE-LAR-14203-1 ..... c 36 N89-28817 * #
NASA-CASE-LAR-14206-1 ..... c 27 N91-28425 * #
NASA-CASE-LAR-14207-1 ..... c 35 N91-14590 *
NASA-CASE-LAR-14212-1-CU ..... c 05 N91-31140 *
NASA-CASE-LAR-14219-1 ..... c 08 N92-30025 * #
NASA-CASE-LAR-14221-1 ..... c 06 N93-19023 * #
NASA-CASE-LAR-14231-1 ..... c 24 N92-10070 *
NASA-CASE-LAR-14232-1 ..... c 09 N92-34213 * #
NASA-CASE-LAR-14239-1 ..... c 26 N93-14705 *
NASA-CASE-LAR-14250-1-SB ..... c 72 N91-27936 *
NASA-CASE-LAR-14271-1-CU ..... c 27 N91-13558 * #
NASA-CASE-LAR-14272-1-CU ..... c 14 N91-28184 * #
NASA-CASE-LAR-14281-1 ..... c 02 N92-28729 *
NASA-CASE-LAR-14322-1 ..... c 02 N91-27139 *
NASA-CASE-LAR-14330-1-CU ..... c 27 N91-13560 * #
NASA-CASE-LAR-14338-1 ..... c 24 N93-13416 *
NASA-CASE-LAR-14339-1 ..... c 27 N90-26955 * #
NASA-CASE-LAR-14340-1-CU ..... c 35 N92-21586 *
NASA-CASE-LAR-14346-1 ..... c 27 N92-22044 *
NASA-CASE-LAR-14351-1 ..... c 27 N92-33015 *
NASA-CASE-LAR-14352-1 ..... c 37 N92-34173 *
NASA-CASE-LAR-14395-1-CU ..... c 33 N91-28490 * #
NASA-CASE-LAR-14398-1 ..... c 25 N92-30098 * #
NASA-CASE-LAR-14402-1-CU ..... c 74 N92-33017 *
NASA-CASE-LAR-14418-1 ..... c 32 N92-31257 * #
NASA-CASE-LAR-14419-1 ..... c 35 N92-10185 *
NASA-CASE-LAR-14424-1-SB ..... c 09 N91-32149 * #
NASA-CASE-LAR-14427-1 ..... c 23 N92-29141 *
NASA-CASE-LAR-14440-1 ..... c 23 N92-10066 * #
NASA-CASE-LAR-14440-1 ..... c 23 N93-18283 *
NASA-CASE-LAR-14446-1 ..... c 31 N92-33020 *
NASA-CASE-LAR-14448-1 ..... c 27 N93-11912 * #
NASA-CASE-LAR-14454-1 ..... c 25 N91-32196 *
NASA-CASE-LAR-14457-1-CU ..... c 27 N92-11198 * #
NASA-CASE-LAR-14459-1 ..... c 24 N91-15334 * #
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NASA-CASE-LAR-14470-1 ..... c 02 N93-11876 * #
NASA-CASE-LAR-14475-1 ..... c 27 N93-19327 *
NASA-CASE-LAR-14480-1-CU ..... c 39 N92-11374 * #
NASA-CASE-LAR-14481-1 ..... c 25 N92-16043 *
NASA-CASE-LAR-14483-1 ..... c 31 N91-28455 * #
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NASA-CASE-LAR-14508-1-CU ..... c 39 N93-13420 *
NASA-CASE-LAR-14515-1-CU ..... c 37 N92-33031 *
NASA-CASE-LAR-14520-1-SB ..... c 02 N92-10008 * #
NASA-CASE-LAR-14520-1-SB ..... c 02 N93-18275 *
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NASA-CASE-LAR-14542-1 ..... c 37 N92-11354 * #
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NASA-CASE-LAR-14565-1-CU ..... c 37 N92-34212 * #
NASA-CASE-LAR-14567-1-CU ..... c 33 N92-33021 *
NASA-CASE-LAR-14568-1 ..... c 74 N92-30312 * #
NASA-CASE-LAR-14579-1 ..... c 35 N92-29097 *
NASA-CASE-LAR-14581-1-SB ..... c 38 N93-12204 * #
NASA-CASE-LAR-14588-1-CU ..... c 74 N92-29117 *
NASA-CASE-LAR-14591-1 ..... c 35 N93-19493 * #
NASA-CASE-LAR-14607-1SB ..... c 74 N92-30029 * #
NASA-CASE-LAR-14608-1 ..... c 27 N92-17676 * #
NASA-CASE-LAR-14612-1 ..... c 34 N92-29954 * #
NASA-CASE-LAR-14626-1 ..... c 38 N92-17859 * #
NASA-CASE-LAR-14639-1 ..... c 27 N93-14709 *
NASA-CASE-LAR-14640-1-CU ..... c 74 N93-17052 * #
NASA-CASE-LAR-14643-1 ..... c 27 N92-29953 * #
NASA-CASE-LAR-14651-1 ..... c 82 N92-30386 * #
NASA-CASE-LAR-14654-1 ..... c 39 N92-30317 * #
NASA-CASE-LAR-14679-2 ..... c 32 N92-31150 * #
NASA-CASE-LAR-14682-1 ..... c 34 N92-30387 * #
NASA-CASE-LAR-14685-1 ..... c 02 N92-34172 *
NASA-CASE-LAR-14698-1 ..... c 39 N92-30028 * #
NASA-CASE-LAR-14724-1 ..... c 35 N92-30030 * #
NASA-CASE-LAR-14729-1-CU ..... c 33 N93-19051 * #
NASA-CASE-LAR-14741-1 ..... c 39 N92-11384 * #
NASA-CASE-LAR-14744-1 ..... c 02 N93-19053 * #
NASA-CASE-LAR-14753-1 ..... c 27 N92-30313 * #
NASA-CASE-LAR-14763-1 ..... c 27 N92-12121 * #
NASA-CASE-LAR-14773-1-CU ..... c 27 N92-10105 * #
NASA-CASE-LAR-14774-1 ..... c 27 N93-19388 *
NASA-CASE-LAR-14775-1 ..... c 39 N92-30099 * #
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NASA-CASE-LAR-14779-1 ..... c 74 N92-29951 * #
NASA-CASE-LAR-14785-1 ..... c 74 N93-19052 * #
NASA-CASE-LAR-14789-1 ..... c 37 N92-30388 * #
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NASA-CASE-LAR-14811-1 ..... c 33 N92-30389 * #
NASA-CASE-LAR-14815-1-CU ..... c 34 N92-29830 * #
NASA-CASE-LAR-14816-1-SB ..... c 39 N93-19329 * #
NASA-CASE-LAR-14817-1 ..... c 35 N93-17041 * #
NASA-CASE-LAR-14824-1-SB ..... c 34 N92-30390 * #
NASA-CASE-LAR-14835-1 ..... c 35 N93-19328 * #
NASA-CASE-LAR-14850-1-CU ..... c 38 N93-17048 * #

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NASA-CASE-LAR-14954-1 ..... c 24 N92-34214 * #

NASA-CASE-LEW-10106-1 ..... c 28 N71-26642 *
NASA-CASE-LEW-10155-1 ..... c 09 N71-29035 *
NASA-CASE-LEW-10199-1 ..... c 27 N74-23125 *
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NASA-CASE-LEW-10250-1 ..... c 22 N71-28759 *
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NASA-CASE-LEW-10281-1 ..... c 14 N72-17327 *
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NASA-CASE-LEW-10698-1 ..... c 37 N74-21063 *
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NASA-CASE-LEW-10906-1 ..... c 25 N74-30502 *
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NASA-CASE-LEW-11069-1 ..... c 44 N74-14784 *
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NASA-CASE-LEW-11118-2 ..... c 20 N76-14191 *
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NASA-CASE-LEW-11188-1 ..... c 02 N74-20646 *
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NASA-CASE-MFS-20809 ..... c 23 N73-13660 *
NASA-CASE-MFS-20823-1 ..... c 16 N73-30476 *
NASA-CASE-MFS-20829 ..... c 12 N72-21310 *
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NASA-CASE-MFS-25312-1 ..... c 74 N83-17305 *
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NASA-CASE-MFS-25403-1 ..... c 18 N83-29303 *
NASA-CASE-MFS-25405-1 ..... c 35 N84-22929 *
NASA-CASE-MFS-25426-1 ..... c 25 N83-10126 *
NASA-CASE-MFS-25429-1 ..... c 18 N86-20469 *
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NASA-CASE-MFS-25477-1 ..... c 33 N84-14424 *
NASA-CASE-MFS-25509-1 ..... c 35 N83-24828 *
NASA-CASE-MFS-25510-1 ..... c 37 N84-16560 *
NASA-CASE-MFS-25535-1 ..... c 33 N81-12330 * #
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NASA-CASE-MFS-25586-1 ..... c 33 N82-11360 * #
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NASA-CASE-MFS-25631-1 ..... c 34 N84-12406 *
NASA-CASE-MFS-25637-1 ..... c 44 N85-21769 *
NASA-CASE-MFS-25641-1 ..... c 72 N84-28575 *
NASA-CASE-MFS-256704-1 ..... c 33 N84-22884 *
NASA-CASE-MFS-25678-1 ..... c 37 N84-11497 *
NASA-CASE-MFS-25687-1 ..... c 35 N84-22928 *
NASA-CASE-MFS-25707-1 ..... c 35 N82-26631 * #
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NASA-CASE-MFS-25721-1 ..... c 25 N85-21280 *
NASA-CASE-MFS-25740-1 ..... c 52 N84-11744 *
NASA-CASE-MFS-25750-1 ..... c 32 N86-20647 *
NASA-CASE-MFS-25752-1 ..... c 74 N86-21348 *
NASA-CASE-MFS-25754-1 ..... c 35 N84-28018 *
NASA-CASE-MFS-25786-2 ..... c 76 N90-20896 *
NASA-CASE-MFS-25791-1 ..... c 09 N84-27749 *
NASA-CASE-MFS-25807-2 ..... c 37 N86-21850 *
NASA-CASE-MFS-25807 ..... c 37 N83-20154 * #
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NASA-CASE-MFS-25828-1 ..... c 71 N84-28568 *
NASA-CASE-MFS-25833-1 ..... c 35 N86-32698 *
NASA-CASE-MFS-25837-1 ..... c 18 N85-29991 *
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NASA-CASE-MFS-25956-1 ..... c 37 N87-21333 *
NASA-CASE-MFS-25962-1 ..... c 09 N89-25242 *

NASA-CASE-MFS-25963-1 ..... c 35 N86-20750 *
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NASA-CASE-MFS-26000-1 ..... c 74 N87-14971 *
NASA-CASE-MFS-26002-1-CU .... c 35 N86-26598 * #
NASA-CASE-MFS-26008-1-CU .... c 76 N88-14835 *
NASA-CASE-MFS-26009-1-SB ..... c 54 N88-24163 *
NASA-CASE-MFS-26011-1-SB ..... c 52 N87-24874 *
NASA-CASE-MFS-26042-1-SB ..... c 37 N91-14613 *
NASA-CASE-MFS-26047-1 ..... c 29 N90-21209 *
NASA-CASE-MFS-26049-1-NP .... c 25 N89-28603 * #
NASA-CASE-MFS-26049-2-NP .... c 25 N92-28728 *
NASA-CASE-MFS-26050-1 ..... c 27 N92-25397 *
NASA-CASE-MFS-26061-1 ..... c 76 N91-16815 * #
NASA-CASE-MFS-26083-1-CU .... c 26 N90-26940 * #
NASA-CASE-MFS-26088-1-CU .... c 76 N92-25398 *
NASA-CASE-MFS-26102-1-CU .... c 47 N91-15661 * #
NASA-CASE-MFS-26102-2-CU .... c 47 N93-10108 *
NASA-CASE-MFS-28001-2 ..... c 37 N88-14360 *
NASA-CASE-MFS-28008-1 ..... c 35 N85-20300 * #
NASA-CASE-MFS-28013-1 ..... c 89 N86-22459 * #
NASA-CASE-MFS-28013-2 ..... c 89 N91-14096 * #
NASA-CASE-MFS-28013-3 ..... c 89 N90-27594 * #
NASA-CASE-MFS-28013-4 ..... c 89 N92-33012 * #
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NASA-CASE-MFS-28110-1 ..... c 37 N87-24689 *
NASA-CASE-MFS-28118-1 ..... c 39 N87-25601 *
NASA-CASE-MFS-28122-1 ..... c 72 N88-24253 *
NASA-CASE-MFS-28137-1 ..... c 76 N88-24544 *
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NASA-CASE-MFS-28153-1 ..... c 31 N86-32589 * #
NASA-CASE-MFS-28161-1 ..... c 37 N87-18817 * #
NASA-CASE-MFS-28177-1 ..... c 35 N91-21496 *
NASA-CASE-MFS-28182-1 ..... c 76 N90-24169 *
NASA-CASE-MFS-28183-1 ..... c 74 N89-13253 * #
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NASA-CASE-MFS-28206-1-SB ..... c 76 N90-23242 *
NASA-CASE-MFS-28217-1 ..... c 34 N89-14392 *
NASA-CASE-MFS-28232-1 ..... c 74 N91-14835 *
NASA-CASE-MFS-28234-1 ..... c 52 N90-20616 *
NASA-CASE-MFS-28242-1 ..... c 35 N89-26202 *
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NASA-CASE-MFS-28426-1 ..... c 54 N91-32795 *
NASA-CASE-MFS-28430-1 ..... c 54 N92-24044 * #
NASA-CASE-MFS-28431-1 ..... c 24 N92-17870 * #
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NASA-CASE-MSC-12223-1 ..... c 07 N71-26181 *
NASA-CASE-MSC-12233-1 ..... c 15 N72-25454 *
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NASA-CASE-MSC-12239-1 ..... c 52 N79-21750 *
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NASA-CASE-NPO-10300 ..... c 14 N71-17662 *
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NASA-CASE-NPO-10302 ..... c 10 N71-26142 *
NASA-CASE-NPO-10303 ..... c 07 N72-22127 *
NASA-CASE-NPO-10309 ..... c 15 N69-23190 * #
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NASA-CASE-NPO-10320 ..... c 14 N71-17655 *
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NASA-CASE-NPO-10337 ..... c 14 N71-15604 *
NASA-CASE-NPO-10342 ..... c 10 N71-33407 *
NASA-CASE-NPO-10343 ..... c 07 N71-27341 *
NASA-CASE-NPO-10344 ..... c 10 N71-26544 *
NASA-CASE-NPO-10348 ..... c 10 N71-12554 *
NASA-CASE-NPO-10351 ..... c 08 N71-12503 *
NASA-CASE-NPO-10373 ..... c 03 N71-18698 *
NASA-CASE-NPO-10388 ..... c 07 N71-24622 *
NASA-CASE-NPO-10401 ..... c 03 N72-20033 *
NASA-CASE-NPO-10404 ..... c 03 N71-12255 *
NASA-CASE-NPO-10412 ..... c 09 N71-28421 *
NASA-CASE-NPO-10416 ..... c 12 N71-27332 *
NASA-CASE-NPO-10417 ..... c 16 N71-33410 *
NASA-CASE-NPO-10424-1 ..... c 27 N81-24258 *
NASA-CASE-NPO-10431 ..... c 15 N71-29132 *
NASA-CASE-NPO-10440 ..... c 15 N72-21466 *
NASA-CASE-NPO-10447 ..... c 06 N70-11252 * #
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NASA-CASE-NPO-10468 ..... c 23 N71-33229 *
NASA-CASE-NPO-10539 ..... c 07 N71-11285 *
NASA-CASE-NPO-10542 ..... c 09 N72-27228 *
NASA-CASE-NPO-10548 ..... c 16 N71-24831 *
NASA-CASE-NPO-10556 ..... c 14 N71-27185 *
NASA-CASE-NPO-10557 ..... c 27 N78-17214 *
NASA-CASE-NPO-10560 ..... c 08 N72-22166 *
NASA-CASE-NPO-10567 ..... c 08 N71-24633 *
NASA-CASE-NPO-10575 ..... c 03 N72-25019 *
NASA-CASE-NPO-10591 ..... c 03 N72-22041 *
NASA-CASE-NPO-10595 ..... c 10 N71-25917 *
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NASA-CASE-NPO-10671 ..... c 15 N72-20443 *
NASA-CASE-NPO-10677 ..... c 05 N72-11084 *
NASA-CASE-NPO-10679 ..... c 15 N72-21462 *
NASA-CASE-NPO-10680 ..... c 31 N73-14855 *
NASA-CASE-NPO-10682 ..... c 15 N70-34699 * #
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NASA-CASE-NPO-10704 ..... c 15 N72-20445 *
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NASA-CASE-NPO-10737 ..... c 28 N72-11709 *
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NASA-CASE-NPO-10745 ..... c 08 N72-22164 *
NASA-CASE-NPO-10747 ..... c 03 N72-22042 *
NASA-CASE-NPO-10748 ..... c 08 N72-20177 *
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NASA-CASE-NPO-10758 ..... c 14 N73-14427 *
NASA-CASE-NPO-10760 ..... c 09 N72-25254 *
NASA-CASE-NPO-10764-1 ..... c 14 N73-14428 *
NASA-CASE-NPO-10764-2 ..... c 35 N75-25122 *
NASA-CASE-NPO-10765 ..... c 06 N72-20121 *
NASA-CASE-NPO-10767-1 ..... c 06 N73-33076 *
NASA-CASE-NPO-10767-2 ..... c 06 N72-27151 * #
NASA-CASE-NPO-10768-2 ..... c 06 N72-27144 *
NASA-CASE-NPO-10768 ..... c 06 N71-27254 *
NASA-CASE-NPO-10769 ..... c 08 N72-11171 *
NASA-CASE-NPO-10774 ..... c 06 N72-17095 *
NASA-CASE-NPO-10778 ..... c 14 N72-11364 *
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NASA-CASE-NPO-10790-1 ..... c 33 N77-21316 *
NASA-CASE-NPO-10796 ..... c 15 N71-27068 *
NASA-CASE-NPO-10808 ..... c 15 N71-27432 *
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NASA-CASE-NPO-10812 ..... c 15 N73-13464 *
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NASA-CASE-NPO-10821 ..... c 03 N71-19545 *
NASA-CASE-NPO-10828 ..... c 33 N72-17948 *
NASA-CASE-NPO-10830-1 ..... c 27 N81-15104 *
NASA-CASE-NPO-10831 ..... c 33 N72-20915 *
NASA-CASE-NPO-10832 ..... c 14 N72-21405 *
NASA-CASE-NPO-10844 ..... c 07 N72-20140 *
NASA-CASE-NPO-10851 ..... c 07 N71-24613 *
NASA-CASE-NPO-10857-1 ..... c 33 N80-14330 *
NASA-CASE-NPO-10862 ..... c 06 N72-22107 *
NASA-CASE-NPO-10863-2 ..... c 06 N72-25152 *
NASA-CASE-NPO-10863 ..... c 06 N70-11251 * #
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NASA-CASE-NPO-10870-1 ..... c 33 N77-22386 *
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NASA-CASE-NPO-10883 ..... c 31 N72-22874 *
NASA-CASE-NPO-10890 ..... c 11 N73-12265 *
NASA-CASE-NPO-10893 ..... c 27 N73-22710 *
NASA-CASE-NPO-10985 ..... c 14 N73-20478 *
NASA-CASE-NPO-10998-1 ..... c 06 N73-32029 *
NASA-CASE-NPO-10999-1 ..... c 06 N73-32029 *
NASA-CASE-NPO-11001 ..... c 07 N72-21118 *
NASA-CASE-NPO-11002 ..... c 14 N72-22441 *
NASA-CASE-NPO-11012 ..... c 15 N72-11391 *
NASA-CASE-NPO-11013 ..... c 11 N72-22247 *
NASA-CASE-NPO-11016 ..... c 08 N72-31226 *
NASA-CASE-NPO-11018 ..... c 08 N72-21200 *
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NASA-CASE-NPO-11023 ..... c 09 N72-17155 *
NASA-CASE-NPO-11031 ..... c 07 N71-33606 *
NASA-CASE-NPO-11036 ..... c 15 N72-24522 *
NASA-CASE-NPO-11059 ..... c 15 N72-17454 *
NASA-CASE-NPO-11064 ..... c 07 N72-11150 *
NASA-CASE-NPO-11078 ..... c 09 N72-25262 *
NASA-CASE-NPO-11082 ..... c 08 N72-22167 *
NASA-CASE-NPO-11087 ..... c 23 N71-29125 *
NASA-CASE-NPO-11088 ..... c 08 N71-29034 *
NASA-CASE-NPO-11091 ..... c 18 N72-22567 *
NASA-CASE-NPO-11095 ..... c 15 N72-25455 *
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NASA-CASE-NPO-11106 ..... c 14 N70-34697 * #
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NASA-CASE-NPO-11130 ..... c 08 N72-20176 *
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NASA-CASE-NPO-11150 ..... c 35 N78-17359 *
NASA-CASE-NPO-11156-2 ..... c 33 N75-31331 *
NASA-CASE-NPO-11161 ..... c 08 N72-25207 *
NASA-CASE-NPO-11177 ..... c 15 N72-17453 *
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NASA-CASE-NPO-11202 ..... c 15 N72-25450 *
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NASA-CASE-NPO-11210 ..... c 11 N72-20244 *
NASA-CASE-NPO-11213 ..... c 15 N73-20514 *
NASA-CASE-NPO-11222 ..... c 15 N72-25456 *
NASA-CASE-NPO-11239 ..... c 14 N73-12446 *
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NASA-CASE-NPO-11283 ..... c 09 N72-25260 *
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NASA-CASE-NPO-11302-1 ..... c 07 N73-13149 *
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NASA-CASE-NPO-11304 ..... c 14 N73-26430 *
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NASA-CASE-NPO-11330 ..... c 33 N73-26958 *
NASA-CASE-NPO-11333 ..... c 08 N72-22162 *
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NASA-CASE-NPO-11342 ..... c 09 N72-25248 *
NASA-CASE-NPO-11358 ..... c 07 N72-25172 *
NASA-CASE-NPO-11361 ..... c 07 N72-32169 *
NASA-CASE-NPO-11366 ..... c 11 N73-26238 *
NASA-CASE-NPO-11369 ..... c 15 N73-13467 *
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NASA-CASE-NPO-11373 ..... c 13 N72-25323 *
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NASA-CASE-NPO-11387 ..... c 14 N73-14429 *
NASA-CASE-NPO-11388 ..... c 03 N72-23048 *
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NASA-CASE-NPO-11429-1 ..... c 74 N77-21941 *
NASA-CASE-NPO-11432-2 ..... c 35 N74-15090 *
NASA-CASE-NPO-11437 ..... c 16 N72-28521 *
NASA-CASE-NPO-11456 ..... c 08 N73-26176 *
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NASA-CASE-NPO-11682-1 ..... c 35 N74-15127 *
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NASA-CASE-NPO-11775 ..... c 26 N72-28761 *
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NASA-CASE-NPO-11820-1 ..... c 32 N74-19788 *
NASA-CASE-NPO-11821-1 ..... c 08 N73-26175 *
NASA-CASE-NPO-11850-1 ..... c 32 N74-12912 *
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NASA-CASE-NPO-11919-1 ..... c 35 N74-11284 *
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NASA-CASE-NPO-11932-1 ..... c 35 N74-23040 *
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NASA-CASE-NPO-12122-1 ..... c 24 N76-14203 *
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NASA-CASE-NPO-13482-1 ..... c 44 N78-13526 *
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NASA-CASE-NPO-13497-1 ..... c 44 N76-14602 *
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NASA-CASE-NPO-13579-3 ..... c 44 N79-24432 *
NASA-CASE-NPO-13579-4 ..... c 44 N79-14529 *
NASA-CASE-NPO-13581-2 ..... c 44 N78-31525 *
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NASA-CASE-NPO-15651-1 ..... c 43 N85-21723 *
NASA-CASE-NPO-15656-1 ..... c 43 N84-23012 * #
NASA-CASE-NPO-15658-1 ..... c 26 N86-32551 *
NASA-CASE-NPO-15662-1 ..... c 44 N84-28204 *
NASA-CASE-NPO-15689-1 ..... c 71 N84-23233 *
NASA-CASE-NPO-15696-1 ..... c 33 N85-34333 *
NASA-CASE-NPO-15704-1 ..... c 32 N85-34327 *
NASA-CASE-NPO-15706-1 ..... c 35 N84-28017 *
NASA-CASE-NPO-15722-1 ..... c 35 N85-29212 *
NASA-CASE-NPO-15743-1 ..... c 32 N85-29118 *
NASA-CASE-NPO-15753-1 ..... c 27 N84-33589 *
NASA-CASE-NPO-15759-1 ..... c 35 N85-21596 *
NASA-CASE-NPO-15767-1 ..... c 23 N84-16255 *
NASA-CASE-NPO-15772-1 ..... c 76 N85-29800 *
NASA-CASE-NPO-15786-1 ..... c 76 N84-35112 * #
NASA-CASE-NPO-15789-1 ..... c 31 N83-19947 *
NASA-CASE-NPO-15790-1 ..... c 36 N85-21631 *
NASA-CASE-NPO-15800-2 ..... c 76 N87-23286 *
NASA-CASE-NPO-15801-1 ..... c 74 N85-23396 *
NASA-CASE-NPO-15805-1 ..... c 74 N84-28590 *
NASA-CASE-NPO-15808-1 ..... c 44 N84-34792 *
NASA-CASE-NPO-15811-1 ..... c 76 N84-12968 * #
NASA-CASE-NPO-15813-1 ..... c 76 N85-30922 *
NASA-CASE-NPO-15813-2 ..... c 76 N87-15882 *
NASA-CASE-NPO-15851-1 ..... c 37 N85-21652 *
NASA-CASE-NPO-15865-1 ..... c 74 N85-34629 *
NASA-CASE-NPO-15890-1-CU .... c 33 N85-29143 *
NASA-CASE-NPO-15904-1 ..... c 76 N86-28760 *
NASA-CASE-NPO-15920-1 ..... c 33 N85-21493 *
NASA-CASE-NPO-15924-1 ..... c 25 N85-35253 *
NASA-CASE-NPO-15928-1 ..... c 26 N85-29005 *
NASA-CASE-NPO-15939-1 ..... c 43 N86-19711 *
NASA-CASE-NPO-15949-1 ..... c 85 N85-34722 *
NASA-CASE-NPO-15959-2 ..... c 37 N91-14616 *
NASA-CASE-NPO-15960-1 ..... c 37 N86-19604 *
NASA-CASE-NPO-15980-1 ..... c 36 N85-30305 *
NASA-CASE-NPO-15982-1 ..... c 60 N87-21591 *
NASA-CASE-NPO-16000-1 ..... c 36 N85-29264 *
NASA-CASE-NPO-16021-1 ..... c 33 N85-30187 *
NASA-CASE-NPO-16022-1 ..... c 71 N85-22105 *
NASA-CASE-NPO-16027-1 ..... c 35 N85-21597 *
NASA-CASE-NPO-16030-1 ..... c 36 N84-25037 * #
NASA-CASE-NPO-16038-1 ..... c 37 N86-19605 *
NASA-CASE-NPO-16045-1 ..... c 76 N87-13313 *
NASA-CASE-NPO-16061-1-CU .... c 72 N87-21660 *
NASA-CASE-NPO-16103-1 ..... c 27 N85-29043 *
NASA-CASE-NPO-16112-1 ..... c 33 N86-19516 *
NASA-CASE-NPO-16116-2 ..... c 60 N88-29310 *
NASA-CASE-NPO-16135-1 ..... c 25 N83-24572 * #
NASA-CASE-NPO-16142-1-CU .... c 35 N86-20752 *
NASA-CASE-NPO-16147-1-CU .... c 71 N85-29693 *
NASA-CASE-NPO-16155-1 ..... c 44 N85-30475 *
NASA-CASE-NPO-16171-1CU ..... c 04 N86-27270 *
NASA-CASE-NPO-16203-1 ..... c 23 N85-35227 *
NASA-CASE-NPO-16233-1 ..... c 37 N86-20801 * #
NASA-CASE-NPO-16236-1 ..... c 44 N86-27706 *
NASA-CASE-NPO-16256-1 ..... c 32 N87-21207 *
NASA-CASE-NPO-16257-1 ..... c 31 N85-29082 *
NASA-CASE-NPO-16271-1 ..... c 35 N86-25753 *
NASA-CASE-NPO-16299-1 ..... c 33 N87-14594 *
NASA-CASE-NPO-16306-1-CU .... c 76 N91-15898 *
NASA-CASE-NPO-16321-1CU ..... c 37 N87-17034 *
NASA-CASE-NPO-16337-1-CU .... c 33 N87-22894 *
NASA-CASE-NPO-16372-1 ..... c 72 N86-33127 *
NASA-CASE-NPO-16392-1 ..... c 25 N86-25428 *
NASA-CASE-NPO-16393-1-CU .... c 31 N87-21159 *
NASA-CASE-NPO-16402-2 ..... c 33 N88-24862 *
NASA-CASE-NPO-16414-1-CU .... c 32 N87-25511 *
NASA-CASE-NPO-16420-1 ..... c 33 N86-20681 * #
NASA-CASE-NPO-16423-1-CU .... c 37 N87-21334 *
NASA-CASE-NPO-16433-1 ..... c 36 N87-23961 *
NASA-CASE-NPO-16461-1CU ..... c 60 N89-26400 *
NASA-CASE-NPO-16462-1-CU .... c 60 N88-24169 *
NASA-CASE-NPO-16464-1CU ..... c 60 N86-24224 * #
NASA-CASE-NPO-16467-1-CU .... c 33 N87-23879 *
NASA-CASE-NPO-16479-1CU ..... c 35 N86-32695 * #
NASA-CASE-NPO-16494-1-CU .... c 34 N85-29182 * #
NASA-CASE-NPO-16497-1-CU .... c 36 N87-25567 *
NASA-CASE-NPO-16526-1CU ..... c 44 N87-17399 *
NASA-CASE-NPO-16542-1-CU .... c 36 N87-23960 *
NASA-CASE-NPO-16544-1-CU .... c 35 N87-22953 *
NASA-CASE-NPO-16558-1-CU .... c 74 N87-23259 *
NASA-CASE-NPO-16567-1-CU .... c 36 N87-28006 *
NASA-CASE-NPO-16584-1-CU .... c 76 N86-25269 * #
NASA-CASE-NPO-16607-1-CU .... c 76 N88-14836 *
NASA-CASE-NPO-16617-2-CU .... c 35 N90-17118 *
NASA-CASE-NPO-16632-1-CU .... c 32 N87-15390 * #
NASA-CASE-NPO-16635-1-CU .... c 31 N91-32240 *
NASA-CASE-NPO-16640-1-CU .... c 72 N87-21661 *
NASA-CASE-NPO-16675-1-CU .... c 71 N88-24241 *
NASA-CASE-NPO-16681-1-CU .... c 76 N88-24543 *
NASA-CASE-NPO-16734-1-CU .... c 31 N88-14223 *
NASA-CASE-NPO-16750-1-CU .... c 74 N89-14078 *
NASA-CASE-NPO-16764-1-CU .... c 33 N88-14270 *
NASA-CASE-NPO-16766-1-CU .... c 37 N89-13785 *
NASA-CASE-NPO-16784-1 ..... c 33 N87-10231 * #
NASA-CASE-NPO-16789-1-CU .... c 72 N89-29169 *
NASA-CASE-NPO-16808-1-CU .... c 76 N87-25868 * #
NASA-CASE-NPO-16859-1-CU .... c 60 N90-21527 *
NASA-CASE-NPO-16869-1CU ..... c 74 N86-33138 * #
NASA-CASE-NPO-16878-1-CU .... c 35 N90-20351 *
NASA-CASE-NPO-16882-1-CU .... c 33 N88-24863 * #
NASA-CASE-NPO-16888-1-CU .... c 33 N89-29681 *
NASA-CASE-NPO-16892-1-CU .... c 37 N87-14704 * #
NASA-CASE-NPO-16896-1-CU .... c 71 N89-13236 *
NASA-CASE-NPO-16901-1-CU .... c 31 N90-19425 *
NASA-CASE-NPO-16904-2-CU .... c 32 N91-14523 *
NASA-CASE-NPO-16907-1-CU .... c 25 N88-24732 *
NASA-CASE-NPO-16932-1CU ..... c 33 N87-15413 * #
NASA-CASE-NPO-16932-2-CU .... c 74 N93-13711 *
NASA-CASE-NPO-16949-1-CU .... c 62 N90-19776 *

NASA-CASE-NPO-16985-1-CU .... c 31 N91-15423 *
NASA-CASE-NPO-16987-1-CU .... c 32 N91-25316 *
NASA-CASE-NPO-16989-1-CU .... c 35 N91-14587 *
NASA-CASE-NPO-16995-1-CU .... c 71 N90-12289 *
NASA-CASE-NPO-17022-1-CU .... c 29 N87-25489 * #
NASA-CASE-NPO-17024-1-CU .... c 35 N88-24943 * #
NASA-CASE-NPO-17058-1-CU .... c 62 N87-25803 * #
NASA-CASE-NPO-17068-1-CU .... c 35 N88-29151 *
NASA-CASE-NPO-17074-2-CU .... c 76 N92-21499 *
NASA-CASE-NPO-17085-1-CU .... c 31 N89-12785 *
NASA-CASE-NPO-17086-1-CU .... c 35 N89-14422 *
NASA-CASE-NPO-17108-1-CU .... c 33 N89-28713 *
NASA-CASE-NPO-17122-1-CU .... c 27 N91-14489 *
NASA-CASE-NPO-17134-1-CU .... c 33 N91-31528 *
NASA-CASE-NPO-17139-1-CU .... c 74 N88-25301 * #
NASA-CASE-NPO-17140-1-CU .... c 74 N89-14077 *
NASA-CASE-NPO-17143-1-CU .... c 31 N89-14351 *
NASA-CASE-NPO-17144-1-CU .... c 74 N88-25305 * #
NASA-CASE-NPO-17157-1-CU .... c 33 N88-26596 *
NASA-CASE-NPO-17184-1-CU .... c 32 N88-26541 * #
NASA-CASE-NPO-17185-1-CU .... c 62 N91-14772 *
NASA-CASE-NPO-17196-1-CU .... c 32 N88-29076 *
NASA-CASE-NPO-17197-1-CU .... c 62 N91-25693 * #
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NASA-CASE-NPO-17204-1-CU .... c 34 N91-25380 *
NASA-CASE-NPO-17205-1-CU .... c 60 N90-21525 *
NASA-CASE-NPO-17207-1-CU .... c 74 N88-25304 * #
NASA-CASE-NPO-17233-1-CU .... c 33 N88-29095 * #
NASA-CASE-NPO-17235-1-CU .... c 35 N90-21358 *
NASA-CASE-NPO-17241-1-CU .... c 33 N90-23636 *
NASA-CASE-NPO-17249-1-CU .... c 32 N89-28676 *
NASA-CASE-NPO-17258-1-CU .... c 33 N91-14551 *
NASA-CASE-NPO-17259-1-CU .... c 76 N90-19884 *
NASA-CASE-NPO-17275-1-CU .... c 37 N89-29750 * #
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NASA-CASE-NPO-17280-1-CU .... c 17 N90-21061 *
NASA-CASE-NPO-17282-1-CU .... c 36 N91-15528 *
NASA-CASE-NPO-17291-1-CU .... c 34 N88-23946 * #
NASA-CASE-NPO-17301-1-CU .... c 31 N90-23587 *
NASA-CASE-NPO-17310-1-CU .... c 17 N88-28946 * #
NASA-CASE-NPO-17325-1-CU .... c 32 N90-17005 *
NASA-CASE-NPO-17334-1-CU .... c 31 N88-23917 * #
NASA-CASE-NPO-17354-1-CU .... c 37 N90-17153 *
NASA-CASE-NPO-17355-1-CU .... c 36 N91-17360 * #
NASA-CASE-NPO-17390-1-CU .... c 35 N90-22769 *
NASA-CASE-NPO-17393-1-CU .... c 33 N89-29679 * #
NASA-CASE-NPO-17394-1-CU .... c 60 N91-31810 *
NASA-CASE-NPO-17399-1-CU .... c 76 N89-14120 * #
NASA-CASE-NPO-17401-1-CU .... c 63 N91-31885 *
NASA-CASE-NPO-17426-1-CU .... c 33 N91-21434 *
NASA-CASE-NPO-17430-1-CU .... c 33 N90-21951 *
NASA-CASE-NPO-17436-1-CU .... c 35 N91-15512 *
NASA-CASE-NPO-17461-1-CU .... c 35 N91-17350 *
NASA-CASE-NPO-17479-1-CU .... c 34 N91-13658 * #
NASA-CASE-NPO-17480-1-CU .... c 25 N92-10073 *
NASA-CASE-NPO-17498-1-CU .... c 72 N91-14813 *
NASA-CASE-NPO-17511-1-CU .... c 71 N91-14807 *
NASA-CASE-NPO-17512-1-CU .... c 74 N91-26918 *
NASA-CASE-NPO-17524-1-CU .... c 27 N90-10261 * #
NASA-CASE-NPO-17525-1-CU .... c 60 N90-25583 *
NASA-CASE-NPO-17526-1-CU .... c 35 N91-14588 *
NASA-CASE-NPO-17543-2-CU .... c 35 N93-19387 *
NASA-CASE-NPO-17548-1-CU .... c 32 N90-16104 * #
NASA-CASE-NPO-17552-1-CU .... c 54 N92-29129 *
NASA-CASE-NPO-17564-1-CU .... c 32 N92-22033 *
NASA-CASE-NPO-17569-1-CU .... c 31 N92-15203 *
NASA-CASE-NPO-17573-2-CU .... c 33 N92-16196 *
NASA-CASE-NPO-17596-1-CU .... c 35 N89-28795 * #
NASA-CASE-NPO-17604-1-CU .... c 33 N91-14536 *
NASA-CASE-NPO-17612-1-CU .... c 74 N92-16808 *
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NASA-CASE-NPO-17621-1-CU .... c 33 N90-17010 * #
NASA-CASE-NPO-17625-1-CU .... c 34 N92-21724 *
NASA-CASE-NPO-17628-1-CU .... c 32 N92-21712 *
NASA-CASE-NPO-17629-1-CU .... c 60 N90-27268 * #
NASA-CASE-NPO-17630-1-CU .... c 31 N89-29577 * #
NASA-CASE-NPO-17632-1-CU .... c 60 N91-32805 * #
NASA-CASE-NPO-17633-1-CU .... c 27 N91-27372 *
NASA-CASE-NPO-17640-1-CU .... c 33 N91-14538 *
NASA-CASE-NPO-17653-1-CU .... c 51 N90-27239 * #
NASA-CASE-NPO-17664-1-CU .... c 62 N91-32852 *
NASA-CASE-NPO-17678-1-CU .... c 76 N91-28014 *
NASA-CASE-NPO-17684-1-CU .... c 33 N92-22042 *
NASA-CASE-NPO-17703-1-CU .... c 74 N91-27957 *
NASA-CASE-NPO-17716-1-CU .... c 62 N92-15620 * #
NASA-CASE-NPO-17723-1-CU .... c 76 N90-26685 * #
NASA-CASE-NPO-17724-1-CU .... c 76 N92-22035 *
NASA-CASE-NPO-17734-1-CU .... c 33 N92-10146 * #
NASA-CASE-NPO-17736-2-CU .... c 24 N92-18561 *
NASA-CASE-NPO-17759-1-CU .... c 32 N92-29124 *
NASA-CASE-NPO-17763-1-CU .... c 36 N93-14703 *
NASA-CASE-NPO-17781-1-CU .... c 60 N92-17884 * #
NASA-CASE-NPO-17784-1-CU .... c 74 N91-13998 * #
NASA-CASE-NPO-17785-1-CU .... c 37 N89-28846 * #
NASA-CASE-NPO-17786-1-CU .... c 35 N90-17104 * #
NASA-CASE-NPO-17794-1-CU .... c 74 N92-30104 * #
NASA-CASE-NPO-17800-1-CU .... c 37 N92-22036 *
NASA-CASE-NPO-17801-1-CU .... c 37 N91-21544 *
NASA-CASE-NPO-17806-1-CU .... c 31 N91-27385 *
NASA-CASE-NPO-17807-2-CU .... c 63 N92-29955 * #
NASA-CASE-NPO-17809-1-CU .... c 33 N91-27478 *
NASA-CASE-NPO-17812-1-CU .... c 76 N90-17456 * #
NASA-CASE-NPO-17812-2-CU .... c 76 N92-22040 *
NASA-CASE-NPO-17812-3-CU .... c 76 N92-22041 *
NASA-CASE-NPO-17820-1-CU .... c 04 N91-14321 *
NASA-CASE-NPO-17824-1-CU .... c 36 N90-17132 *
NASA-CASE-NPO-17826-1-CU .... c 27 N92-16121 *
NASA-CASE-NPO-17830-1-CU .... c 33 N91-14539 *
NASA-CASE-NPO-17831-1-CU .... c 43 N91-14642 *
NASA-CASE-NPO-17835-1-CU .... c 76 N90-27518 * #
NASA-CASE-NPO-17836-1-CU .... c 32 N92-10126 * #
NASA-CASE-NPO-17836-1-CU .... c 32 N93-18284 *
NASA-CASE-NPO-17837-1-CU .... c 74 N93-17273 * #
NASA-CASE-NPO-17845-2-CU .... c 61 N93-14882 *
NASA-CASE-NPO-17852-1-CU .... c 63 N92-33019 *
NASA-CASE-NPO-17853-1-CU .... c 32 N91-25318 *
NASA-CASE-NPO-17858-1-CU .... c 24 N93-14700 *
NASA-CASE-NPO-17880-1-CU .... c 76 N93-11056 *
NASA-CASE-NPO-17896-1-CU .... c 32 N91-27439 *
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NASA-CASE-NPO-17911-1-CU .... c 32 N90-27016 * #
NASA-CASE-NPO-17913-1-CU .... c 74 N92-22034 *
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NASA-CASE-NPO-17918-2-CU .... c 63 N92-17895 * #
NASA-CASE-NPO-17922-1-CU .... c 33 N92-28753 *
NASA-CASE-NPO-17937-1-CU .... c 43 N91-21621 *
NASA-CASE-NPO-17939-1-CU .... c 60 N90-26518 * #
NASA-CASE-NPO-17941-1-CU .... c 32 N91-13595 * #
NASA-CASE-NPO-17949-1-CU .... c 76 N92-10681 *
NASA-CASE-NPO-17954-1-CU .... c 60 N93-14704 *
NASA-CASE-NPO-17970-1-CU .... c 43 N90-26384 * #
NASA-CASE-NPO-17994-1-CU .... c 33 N92-17907 * #
NASA-CASE-NPO-17994-1-CU .... c 33 N93-18278 *
NASA-CASE-NPO-17997-1-CU .... c 60 N92-33057 *
NASA-CASE-NPO-17998-1-CU .... c 60 N92-12438 * #
NASA-CASE-NPO-18007-1-CU .... c 74 N92-11791 * #
NASA-CASE-NPO-18028-1-CU .... c 74 N92-16809 *
NASA-CASE-NPO-18034-1-CU .... c 44 N92-16457 *
NASA-CASE-NPO-18062-1-CU .... c 33 N92-30542 * #
NASA-CASE-NPO-18075-1-CU .... c 33 N91-13622 * #
NASA-CASE-NPO-18095-1-CU .... c 74 N92-29122 *
NASA-CASE-NPO-18098-1-CU .... c 74 N92-33028 *
NASA-CASE-NPO-18101-1-CU .... c 74 N91-25841 *
NASA-CASE-NPO-18115-1-CU .... c 47 N92-29148 *
NASA-CASE-NPO-18116-1-CU .... c 37 N91-32509 * #
NASA-CASE-NPO-18134-1-CU .... c 37 N91-32510 * #
NASA-CASE-NPO-18146-1-CU .... c 74 N92-17892 * #
NASA-CASE-NPO-18155-1-CU .... c 71 N93-13421 *
NASA-CASE-NPO-18184-1-CU .... c 35 N92-29156 *
NASA-CASE-NPO-18187-1-CU .... c 70 N92-29130 *
NASA-CASE-NPO-18194-1-CU .... c 74 N91-32924 * #
NASA-CASE-NPO-18243-1-CU .... c 36 N93-13418 *
NASA-CASE-NPO-18278-1-CU .... c 74 N91-32925 * #
NASA-CASE-NPO-18317-1-CU .... c 74 N93-13419 *
NASA-CASE-NPO-18343-1-CU .... c 33 N93-11456 * #
NASA-CASE-NPO-18366-1-CU .... c 31 N93-13422 *
NASA-CASE-NPO-18379-1-CU .... c 74 N92-33022 *
NASA-CASE-NPO-18386-1-CU .... c 36 N92-17899 * #
NASA-CASE-NPO-18386-1-CU .... c 36 N93-18277 *
NASA-CASE-NPO-18409-1-CU .... c 25 N93-19025 * #
NASA-CASE-NPO-18410-1-CU .... c 74 N92-29832 * #
NASA-CASE-NPO-18414-1-CU .... c 62 N92-24045 * #
NASA-CASE-NPO-18428-1-CU .... c 33 N92-23464 * #
NASA-CASE-NPO-18433-1-CU .... c 74 N92-34241 * #
NASA-CASE-NPO-18435-1-CU .... c 61 N92-30543 * #
NASA-CASE-NPO-18448-1-CU .... c 29 N92-30083 * #
NASA-CASE-NPO-18454-1-CU .... c 33 N92-17865 * #
NASA-CASE-NPO-18454-1-CU .... c 33 N93-18285 *
NASA-CASE-NPO-18478-1-CU .... c 74 N92-30084 * #
NASA-CASE-NPO-18483-1-CU .... c 76 N93-15151 * #
NASA-CASE-NPO-18491-1-CU .... c 60 N92-23546 * #
NASA-CASE-NPO-18497-1-CU .... c 63 N92-24245 * #
NASA-CASE-NPO-18498-1-CU .... c 37 N92-24043 * #
NASA-CASE-NPO-18499-1-CU .... c 37 N92-24042 * #
NASA-CASE-NPO-18521-1-CU .... c 74 N93-14404 * #
NASA-CASE-NPO-18551-1-CU .... c 33 N93-17277 * #
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NASA-CASE-NPO-18580-1-CU .... c 33 N93-17278 * #
NASA-CASE-NPO-18584-1-CU .... c 37 N93-11177 * #
NASA-CASE-NPO-18586-1-CU .... c 63 N93-17276 * #
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NASA-CASE-NPO-18625-1-CU .... c 76 N92-30102 * #
NASA-CASE-NPO-18645-1-CU .... c 63 N92-34240 * #
NASA-CASE-NPO-18667-1-CU .... c 33 N93-19330 * #
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NASA-CASE-NPO-18690-1-CU .... c 37 N92-34205 * #
NASA-CASE-NPO-18701-1-CU .... c 32 N92-30391 * #
NASA-CASE-NPO-18702-1-CU .... c 74 N92-23551 * #
NASA-CASE-NPO-18713-1-CU .... c 32 N92-30103 * #
NASA-CASE-NPO-18764-1-CU .... c 37 N93-17272 * #
NASA-CASE-NPO-18771-1-CU .... c 61 N93-11664 * #
NASA-CASE-NPO-18817-1-CU .... c 31 N93-12202 * #

NASA-CASE-NST-00007-1 ..... c 45 N91-14662 *

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NASA-CASE-NUC-10107-1 ..... c 33 N74-17930 *

NASA-CASE-SSC-00004-1 ..... c 37 N91-14609 *
NASA-CASE-SSC-00006-1 ..... c 35 N91-13691 * #
NASA-CASE-SSC-00008-1 ..... c 37 N91-13733 * #
NASA-CASE-SSC-00010-1 ..... c 82 N91-23976 * #
NASA-CASE-SSC-00010-2 ..... c 82 N92-23550 * #
NASA-CASE-SSC-00013-1 ..... c 38 N91-32515 * #

NASA-CASE-WLP-10002 ..... c 15 N72-17451 *
NASA-CASE-WLP-10055-1 ..... c 35 N84-28015 *
NASA-CASE-WLP-10055-2 ..... c 35 N85-21598 *

NASA-CASE-WOO-00428-1 ..... c 32 N79-19186 *
NASA-CASE-WOO-00625 ..... c 37 N78-17385 *

NASA-CASE-XAC-00001 ..... c 15 N71-28952 *
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NASA-CASE-XAC-00042 ..... c 14 N70-34816 *
NASA-CASE-XAC-00048 ..... c 02 N71-29128 *
NASA-CASE-XAC-00060 ..... c 09 N70-39915 *
NASA-CASE-XAC-00073 ..... c 14 N70-34813 *
NASA-CASE-XAC-00074 ..... c 15 N70-34817 *
NASA-CASE-XAC-00086 ..... c 09 N70-33182 *
NASA-CASE-XAC-00139 ..... c 02 N70-34856 *
NASA-CASE-XAC-00319 ..... c 25 N70-41628 *
NASA-CASE-XAC-00399 ..... c 11 N70-34815 *
NASA-CASE-XAC-00404 ..... c 08 N70-40125 *
NASA-CASE-XAC-00405 ..... c 05 N70-41819 *
NASA-CASE-XAC-00435 ..... c 09 N70-35440 *
NASA-CASE-XAC-00472 ..... c 15 N70-40180 *
NASA-CASE-XAC-00648 ..... c 14 N70-40400 *
NASA-CASE-XAC-00731 ..... c 11 N71-15960 *
NASA-CASE-XAC-00812 ..... c 14 N71-15598 *
NASA-CASE-XAC-00942 ..... c 10 N71-16042 *
NASA-CASE-XAC-01101 ..... c 14 N70-41957 *
NASA-CASE-XAC-01158 ..... c 15 N71-23051 *
NASA-CASE-XAC-01404 ..... c 05 N70-41581 *
NASA-CASE-XAC-01591 ..... c 31 N71-17729 *
NASA-CASE-XAC-01662 ..... c 14 N71-23037 *
NASA-CASE-XAC-01677 ..... c 09 N71-20816 *
NASA-CASE-XAC-02058 ..... c 02 N71-16087 *
NASA-CASE-XAC-02405 ..... c 09 N71-16089 *
NASA-CASE-XAC-02407 ..... c 14 N69-27423 * #
NASA-CASE-XAC-02807 ..... c 09 N71-23021 *
NASA-CASE-XAC-02877 ..... c 14 N70-41681 *
NASA-CASE-XAC-02970 ..... c 14 N69-39896 * #
NASA-CASE-XAC-02981 ..... c 14 N71-21072 *
NASA-CASE-XAC-03107 ..... c 23 N71-16098 *
NASA-CASE-XAC-03392 ..... c 03 N70-41954 *
NASA-CASE-XAC-03740 ..... c 14 N71-26135 *
NASA-CASE-XAC-03777 ..... c 10 N71-15909 *
NASA-CASE-XAC-04030 ..... c 10 N71-19472 *
NASA-CASE-XAC-04031 ..... c 08 N71-18594 *
NASA-CASE-XAC-04458 ..... c 14 N71-24232 *
NASA-CASE-XAC-04885 ..... c 14 N71-23790 *
NASA-CASE-XAC-04886-1 ..... c 14 N71-20439 *
NASA-CASE-XAC-05333 ..... c 11 N71-22875 *
NASA-CASE-XAC-05422 ..... c 04 N71-23185 *
NASA-CASE-XAC-05462-2 ..... c 10 N72-17171 *
NASA-CASE-XAC-05506-1 ..... c 24 N71-16095 *
NASA-CASE-XAC-05632 ..... c 32 N71-23971 *
NASA-CASE-XAC-05695 ..... c 25 N71-16073 *
NASA-CASE-XAC-05706 ..... c 05 N71-12342 *
NASA-CASE-XAC-05902 ..... c 11 N71-18578 *
NASA-CASE-XAC-06029-1 ..... c 31 N71-24813 *
NASA-CASE-XAC-06302 ..... c 08 N71-19763 *
NASA-CASE-XAC-06956 ..... c 15 N71-21177 *
NASA-CASE-XAC-07043 ..... c 05 N71-23161 *
NASA-CASE-XAC-08494 ..... c 30 N71-15990 *
NASA-CASE-XAC-08972 ..... c 02 N71-20570 *
NASA-CASE-XAC-08981 ..... c 09 N69-39897 * #
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NASA-CASE-XAC-10019 ..... c 15 N71-23809 *
NASA-CASE-XAC-10607 ..... c 10 N71-23669 *
NASA-CASE-XAC-10608-1 ..... c 09 N71-12517 *
NASA-CASE-XAC-10768 ..... c 09 N71-18830 *
NASA-CASE-XAC-10770-1 ..... c 16 N71-24828 *
NASA-CASE-XAC-11225 ..... c 14 N69-27486 * #

NASA-CASE-XAR-01547 ..... c 05 N69-21473 * #
NASA-CASE-XAR-03786 ..... c 09 N69-21313 * #

NASA-CASE-XER-07894 ..... c 09 N71-18721 *
NASA-CASE-XER-07895 ..... c 26 N72-25679 *
NASA-CASE-XER-07896-2 ..... c 23 N72-22673 *
NASA-CASE-XER-08476-1 ..... c 26 N72-17820 *
NASA-CASE-XER-09213 ..... c 07 N71-12390 *
NASA-CASE-XER-09519 ..... c 14 N71-18483 *
NASA-CASE-XER-09521 ..... c 09 N72-12136 *
NASA-CASE-XER-11019 ..... c 09 N71-23598 *
NASA-CASE-XER-11046-2 ..... c 33 N74-22864 *
NASA-CASE-XER-11046 ..... c 09 N72-22203 *
NASA-CASE-XER-11203 ..... c 14 N71-28994 *

NASA-CASE-XFR-00181 ..... c 21 N70-33279 *
NASA-CASE-XFR-00756 ..... c 02 N71-13421 *
NASA-CASE-XFR-00811 ..... c 15 N70-36901 *
NASA-CASE-XFR-00929 ..... c 31 N70-34966 *
NASA-CASE-XFR-02007 ..... c 12 N71-24692 *
NASA-CASE-XFR-03107 ..... c 09 N71-19449 *
NASA-CASE-XFR-03802 ..... c 33 N71-23085 *
NASA-CASE-XFR-04104 ..... c 03 N70-42073 *
NASA-CASE-XFR-04147 ..... c 11 N71-10748 *
NASA-CASE-XFR-05302 ..... c 15 N71-23254 *
NASA-CASE-XFR-05421 ..... c 15 N71-22994 *
NASA-CASE-XFR-05637 ..... c 09 N71-19480 *
NASA-CASE-XFR-07172 ..... c 05 N71-27234 *
NASA-CASE-XFR-07658-1 ..... c 05 N71-26293 *
NASA-CASE-XFR-08403 ..... c 05 N71-11202 *
NASA-CASE-XFR-09479 ..... c 14 N69-27503 * #
NASA-CASE-XFR-10856 ..... c 05 N71-11189 *

NASA-CASE-XGS-00131 ..... c 09 N70-38995 *
NASA-CASE-XGS-00174 ..... c 08 N70-34743 *
NASA-CASE-XGS-00260 ..... c 31 N70-37924 *
NASA-CASE-XGS-00359 ..... c 14 N70-34158 *
NASA-CASE-XGS-00373 ..... c 23 N71-15978 *
NASA-CASE-XGS-00381 ..... c 09 N70-34819 *
NASA-CASE-XGS-00458 ..... c 09 N70-38604 *
NASA-CASE-XGS-00466 ..... c 21 N70-34297 *
NASA-CASE-XGS-00473 ..... c 03 N70-38713 *
NASA-CASE-XGS-00587 ..... c 15 N70-35087 *
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NASA-CASE-XGS-00689 ..... c 08 N70-34787 *
NASA-CASE-XGS-00740 ..... c 07 N71-23098 *
NASA-CASE-XGS-00769 ..... c 14 N70-41647 *
NASA-CASE-XGS-00783 ..... c 30 N71-17788 *
NASA-CASE-XGS-00809 ..... c 21 N70-35427 *
NASA-CASE-XGS-00823 ..... c 10 N71-15910 *
NASA-CASE-XGS-00824 ..... c 15 N71-16078 *
NASA-CASE-XGS-00829-1 ..... c 44 N79-19447 *
NASA-CASE-XGS-00886 ..... c 03 N71-11053 *
NASA-CASE-XGS-00938 ..... c 32 N70-41367 *
NASA-CASE-XGS-00963 ..... c 15 N69-39735 * #
NASA-CASE-XGS-01013 ..... c 14 N71-23725 *
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NASA-CASE-XGS-01022 ..... c 07 N71-16088 *
NASA-CASE-XGS-01023 ..... c 14 N71-22992 *
NASA-CASE-XGS-01036 ..... c 14 N70-40003 *
NASA-CASE-XGS-01052 ..... c 14 N71-15992 *
NASA-CASE-XGS-01110 ..... c 07 N69-24334 * #
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NASA-CASE-XGS-01143 ..... c 31 N71-15647 *
NASA-CASE-XGS-01155 ..... c 10 N71-21483 *
NASA-CASE-XGS-01159 ..... c 21 N71-10678 *
NASA-CASE-XGS-01222 ..... c 10 N71-20841 *
NASA-CASE-XGS-01223 ..... c 07 N71-10609 *
NASA-CASE-XGS-01230 ..... c 08 N71-19544 *
NASA-CASE-XGS-01231 ..... c 14 N70-41676 *
NASA-CASE-XGS-01245-1 ..... c 35 N79-33449 *
NASA-CASE-XGS-01286-1 ..... c 37 N79-33469 *
NASA-CASE-XGS-01293-1 ..... c 35 N79-33450 *
NASA-CASE-XGS-01331 ..... c 14 N71-22996 *
NASA-CASE-XGS-01395 ..... c 03 N69-21539 * #
NASA-CASE-XGS-01418 ..... c 09 N71-23573 *
NASA-CASE-XGS-01419 ..... c 03 N70-41864 *
NASA-CASE-XGS-01451 ..... c 09 N71-10677 *
NASA-CASE-XGS-01473 ..... c 09 N71-10673 *
NASA-CASE-XGS-01475 ..... c 03 N71-11058 *
NASA-CASE-XGS-01504 ..... c 16 N70-41578 *
NASA-CASE-XGS-01513 ..... c 03 N71-23336 *
NASA-CASE-XGS-01537 ..... c 07 N71-23405 *
NASA-CASE-XGS-01587 ..... c 14 N71-15962 *
NASA-CASE-XGS-01590 ..... c 07 N71-12392 *
NASA-CASE-XGS-01593 ..... c 03 N70-35408 *
NASA-CASE-XGS-01654 ..... c 31 N71-24750 *
NASA-CASE-XGS-01674 ..... c 03 N71-29129 *
NASA-CASE-XGS-01725 ..... c 14 N69-39982 * #
NASA-CASE-XGS-01784 ..... c 10 N71-20782 *
NASA-CASE-XGS-01812 ..... c 07 N71-23001 *
NASA-CASE-XGS-01881 ..... c 09 N70-40123 *
NASA-CASE-XGS-01971 ..... c 15 N71-15922 *
NASA-CASE-XGS-01983 ..... c 10 N70-41964 *
NASA-CASE-XGS-02011 ..... c 15 N71-20739 *
NASA-CASE-XGS-02171 ..... c 09 N69-24324 * #
NASA-CASE-XGS-02290 ..... c 07 N71-28809 *
NASA-CASE-XGS-02317 ..... c 09 N71-23525 *
NASA-CASE-XGS-02319 ..... c 14 N71-22965 *

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NASA-CASE-XGS-02435 ..... c 18 N71-22998 *
NASA-CASE-XGS-02437 ..... c 15 N69-21472 * #
NASA-CASE-XGS-02439 ..... c 14 N71-19431 *
NASA-CASE-XGS-02440 ..... c 08 N71-19432 *
NASA-CASE-XGS-02441 ..... c 15 N70-41629 *
NASA-CASE-XGS-02554 ..... c 31 N71-21064 *
NASA-CASE-XGS-02607 ..... c 31 N71-23009 *
NASA-CASE-XGS-02608 ..... c 07 N70-41678 *
NASA-CASE-XGS-02610 ..... c 14 N71-23174 *
NASA-CASE-XGS-02612 ..... c 08 N71-19435 *
NASA-CASE-XGS-02629 ..... c 14 N71-21082 *
NASA-CASE-XGS-02630 ..... c 03 N71-22974 *
NASA-CASE-XGS-02631 ..... c 03 N71-23006 *
NASA-CASE-XGS-02749 ..... c 07 N69-39978 * #
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NASA-CASE-XGS-02812 ..... c 09 N71-19466 *
NASA-CASE-XGS-02816 ..... c 07 N69-24323 * #
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NASA-CASE-XGS-02889 ..... c 07 N71-11282 *
NASA-CASE-XGS-03058 ..... c 10 N71-19547 *
NASA-CASE-XGS-03095 ..... c 09 N69-27463 * #
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NASA-CASE-XGS-03230 ..... c 14 N71-23401 *
NASA-CASE-XGS-03303 ..... c 08 N71-18595 *
NASA-CASE-XGS-03304 ..... c 09 N71-22988 *
NASA-CASE-XGS-03351 ..... c 31 N71-16081 *
NASA-CASE-XGS-03390 ..... c 03 N71-23187 *
NASA-CASE-XGS-03427 ..... c 10 N71-23029 *
NASA-CASE-XGS-03429 ..... c 03 N69-21330 * #
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NASA-CASE-XGS-03502 ..... c 10 N71-20852 *
NASA-CASE-XGS-03505 ..... c 03 N71-10608 *
NASA-CASE-XGS-03532 ..... c 14 N71-17627 *
NASA-CASE-XGS-03556 ..... c 27 N70-35534 *
NASA-CASE-XGS-03632 ..... c 09 N71-23311 *
NASA-CASE-XGS-03644 ..... c 16 N71-18614 *
NASA-CASE-XGS-03736 ..... c 14 N72-22443 *
NASA-CASE-XGS-03864 ..... c 15 N69-24320 * #
NASA-CASE-XGS-03865 ..... c 14 N69-21363 * #
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NASA-CASE-XGS-04119 ..... c 18 N69-39979 * #
NASA-CASE-XGS-04173 ..... c 19 N71-26674 *
NASA-CASE-XGS-04175 ..... c 15 N71-18579 *
NASA-CASE-XGS-04224 ..... c 10 N71-26418 *
NASA-CASE-XGS-04227 ..... c 15 N71-21744 *
NASA-CASE-XGS-04393 ..... c 21 N71-14159 *
NASA-CASE-XGS-04478 ..... c 14 N71-24233 *
NASA-CASE-XGS-04480 ..... c 16 N69-27491 * #
NASA-CASE-XGS-04531 ..... c 03 N69-24267 * #
NASA-CASE-XGS-04548 ..... c 15 N71-24045 *
NASA-CASE-XGS-04554 ..... c 15 N69-39786 * #
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NASA-CASE-XGS-04766 ..... c 08 N71-18602 *
NASA-CASE-XGS-04767 ..... c 08 N71-12494 *
NASA-CASE-XGS-04768 ..... c 08 N71-19437 *
NASA-CASE-XGS-04799 ..... c 18 N71-24183 *
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NASA-CASE-XGS-04993 ..... c 14 N71-17574 *
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NASA-CASE-XGS-05003 ..... c 09 N69-24318 * #
NASA-CASE-XGS-05180 ..... c 18 N71-25881 *
NASA-CASE-XGS-05211 ..... c 07 N69-39980 * #
NASA-CASE-XGS-05289 ..... c 09 N71-19470 *
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NASA-CASE-XGS-05432 ..... c 03 N71-19438 *
NASA-CASE-XGS-05434 ..... c 03 N71-20491 *
NASA-CASE-XGS-05441 ..... c 10 N71-22962 *
NASA-CASE-XGS-05532 ..... c 06 N71-17705 *
NASA-CASE-XGS-05533 ..... c 04 N69-27487 * #
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NASA-CASE-XGS-05579 ..... c 31 N71-15676 *
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NASA-CASE-XGS-05715 ..... c 23 N71-16100 *
NASA-CASE-XGS-05718 ..... c 26 N71-16037 *
NASA-CASE-XGS-05918 ..... c 07 N69-39974 * #
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NASA-CASE-XGS-06306 ..... c 17 N71-16044 *
NASA-CASE-XGS-06628 ..... c 24 N71-16213 *
NASA-CASE-XGS-07375-1 ..... c 25 N82-29370 *
NASA-CASE-XGS-07397-1 ..... c 25 N82-29370 *
NASA-CASE-XGS-07514 ..... c 23 N71-16099 *
NASA-CASE-XGS-07752 ..... c 14 N73-30390 *
NASA-CASE-XGS-07801 ..... c 09 N71-12513 *
NASA-CASE-XGS-07805 ..... c 15 N72-33476 *
NASA-CASE-XGS-08259 ..... c 14 N71-23698 *
NASA-CASE-XGS-08266 ..... c 14 N69-27432 * #
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NASA-CASE-XGS-08718 ..... c 15 N71-24600 *
NASA-CASE-XGS-08729 ..... c 28 N71-14044 *
NASA-CASE-XGS-09186 ..... c 33 N78-17295 *
NASA-CASE-XGS-09190 ..... c 31 N71-16102 *
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NASA-CASE-XGS-10518 ..... c 16 N71-28554 *
NASA-CASE-XGS-11177 ..... c 09 N71-27001 *

NASA-CASE-XHQ-01208 ..... c 15 N70-35409 *
NASA-CASE-XHQ-01897 ..... c 28 N70-35381 *
NASA-CASE-XHQ-02146 ..... c 18 N75-27040 *
NASA-CASE-XHQ-03673 ..... c 33 N71-29046 *
NASA-CASE-XHQ-03903 ..... c 15 N69-21922 * #
NASA-CASE-XHQ-04106 ..... c 14 N70-40240 *

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NASA-CASE-XKS-02342 ..... c 05 N71-11199 *
NASA-CASE-XKS-02582 ..... c 15 N71-21234 *
NASA-CASE-XKS-03338 ..... c 15 N71-24043 *
NASA-CASE-XKS-03381 ..... c 09 N71-22796 *
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NASA-CASE-XKS-07953 ..... c 15 N71-26134 *
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NASA-CASE-XKS-08485 ..... c 07 N71-19493 *
NASA-CASE-XKS-09340 ..... c 07 N71-24614 *
NASA-CASE-XKS-09348 ..... c 09 N71-13521 *
NASA-CASE-XKS-10543 ..... c 07 N71-26292 *
NASA-CASE-XKS-10804 ..... c 05 N71-24606 *

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NASA-CASE-XLA-00087 ..... c 02 N70-33332 *
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NASA-CASE-XLA-00105 ..... c 28 N70-33331 *
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NASA-CASE-XLA-00941 ..... c 14 N71-23240 *
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NASA-CASE-XLA-01027 ..... c 31 N71-24035 *
NASA-CASE-XLA-01043 ..... c 28 N71-10780 *
NASA-CASE-XLA-01090 ..... c 07 N71-12389 *
NASA-CASE-XLA-01091 ..... c 15 N71-10672 *
NASA-CASE-XLA-01127 ..... c 07 N70-41372 *
NASA-CASE-XLA-01131 ..... c 14 N71-10774 *
NASA-CASE-XLA-01141 ..... c 15 N71-13789 *
NASA-CASE-XLA-01163 ..... c 21 N71-15582 *
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NASA-CASE-XLA-01220 ..... c 02 N70-41863 *
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NASA-CASE-XLA-01745 ..... c 33 N71-28903 *
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NASA-CASE-XLA-02059 ..... c 33 N71-24276 *
NASA-CASE-XLA-02079 ..... c 12 N71-16894 *
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NASA-CASE-XLA-02854 ..... c 15 N69-27490 * #
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NASA-CASE-XLA-03497 ..... c 15 N71-23052 *
NASA-CASE-XLA-03538 ..... c 15 N71-24897 *
NASA-CASE-XLA-03645 ..... c 14 N71-20430 *
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NASA-CASE-XLA-04143 ..... c 15 N71-17687 *
NASA-CASE-XLA-04251 ..... c 18 N71-26100 *
NASA-CASE-XLA-04295 ..... c 16 N71-24170 *
NASA-CASE-XLA-04451 ..... c 02 N71-12243 *
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NASA-CASE-XLA-04804 ..... c 31 N71-23008 *
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NASA-CASE-XLA-05749 ..... c 15 N71-19569 *
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NASA-CASE-XLA-05906 ..... c 31 N71-16221 *
NASA-CASE-XLA-05966 ..... c 15 N72-12408 *
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NASA-CASE-XLA-11189 ..... c 10 N72-20222 *

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NASA-CASE-XLE-00222 ..... c 02 N70-37939 *
NASA-CASE-XLE-00228 ..... c 17 N70-38490 *
NASA-CASE-XLE-00231 ..... c 17 N70-38198 *
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NASA-CASE-XLE-00688 ..... c 14 N70-41330 *
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NASA-CASE-XLE-01533 ..... c 11 N71-10777 *

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NASA-CASE-XLE-02066 ..... c 28 N71-15661 *
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NASA-CASE-XLE-02578 ..... c 25 N71-20747 *
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NASA-CASE-XLE-05230 ..... c 14 N72-27410 *
NASA-CASE-XLE-05260 ..... c 14 N71-20429 *
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NASA-CASE-XLE-2529-3 ..... c 33 N74-20859 *

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NASA-CASE-XMF-03793 ..... c 15 N71-24833 *
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NASA-CASE-XMF-03856 ..... c 31 N70-34159 *
NASA-CASE-XMF-03873 ..... c 06 N69-39733 * #
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US-PATENT-APPL-SN-053569 ..... c 35 N81-19426 *
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US-PATENT-APPL-SN-053572 ..... c 32 N82-23376 *
US-PATENT-APPL-SN-053652 ..... c 33 N82-18494 *
US-PATENT-APPL-SN-054501 ..... c 23 N82-16174 *
US-PATENT-APPL-SN-054980 ..... c 35 N88-29149 *
US-PATENT-APPL-SN-054982 ..... c 23 N90-23475 *
US-PATENT-APPL-SN-054983 ..... c 37 N87-25585 * #
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US-PATENT-APPL-SN-055809 ..... c 33 N92-16197 *
US-PATENT-APPL-SN-056930 ..... c 37 N88-23979 *
US-PATENT-APPL-SN-057465 ..... c 37 N81-17433 *
US-PATENT-APPL-SN-057466 ..... c 71 N81-15767 *
US-PATENT-APPL-SN-057526 ..... c 52 N81-25662 *
US-PATENT-APPL-SN-060182 ..... c 27 N89-12741 *
US-PATENT-APPL-SN-060196 ..... c 32 N89-11961 *
US-PATENT-APPL-SN-060200 ..... c 09 N88-28939 *
US-PATENT-APPL-SN-060201 ..... c 62 N87-25803 * #
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US-PATENT-APPL-SN-060449 ..... c 07 N82-32366 *
US-PATENT-APPL-SN-061327 ..... c 32 N83-13323 *
US-PATENT-APPL-SN-061555 ..... c 44 N81-29524 *
US-PATENT-APPL-SN-061556 ..... c 35 N81-19427 *
US-PATENT-APPL-SN-061822 ..... c 74 N83-19597 *
US-PATENT-APPL-SN-065676 ..... c 35 N80-18364 * #
US-PATENT-APPL-SN-065676 ..... c 44 N81-12542 *
US-PATENT-APPL-SN-066450 ..... c 29 N87-25489 * #
US-PATENT-APPL-SN-067595 ..... c 08 N82-24205 *
US-PATENT-APPL-SN-067596 ..... c 51 N81-28698 *
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US-PATENT-APPL-SN-067846 ..... c 31 N90-21216 *
US-PATENT-APPL-SN-069485 ..... c 33 N82-24420 *
US-PATENT-APPL-SN-070366 ..... c 35 N82-11431 *
US-PATENT-APPL-SN-070771 ..... c 27 N81-17260 *
US-PATENT-APPL-SN-070774 ..... c 33 N82-26571 *
US-PATENT-APPL-SN-071686 ..... c 27 N90-16950 *
US-PATENT-APPL-SN-072857 ..... c 24 N82-32417 *
US-PATENT-APPL-SN-073477 ..... c 36 N82-32712 *
US-PATENT-APPL-SN-073539 ..... c 18 N87-29586 * #
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US-PATENT-APPL-SN-074792 ..... c 35 N88-30108 *

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US-PATENT-APPL-SN-076955 ..... c 16 N90-22584 *
US-PATENT-APPL-SN-076956 ..... c 35 N88-29151 *
US-PATENT-APPL-SN-078521 ..... c 32 N81-14186 *
US-PATENT-APPL-SN-078611 ..... c 04 N81-21047 *
US-PATENT-APPL-SN-078612 ..... c 46 N82-12685 *
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US-PATENT-APPL-SN-084062 ..... c 35 N90-20351 *
US-PATENT-APPL-SN-084064 ..... c 27 N92-29157 *
US-PATENT-APPL-SN-084770 ..... c 32 N88-29076 *
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US-PATENT-APPL-SN-089779 ..... c 26 N81-25188 *
US-PATENT-APPL-SN-090584 ..... c 74 N81-19896 *
US-PATENT-APPL-SN-090874 ..... c 25 N90-20180 *
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US-PATENT-APPL-SN-092141 ..... c 27 N81-29229 *
US-PATENT-APPL-SN-092142 ..... c 27 N82-11206 *
US-PATENT-APPL-SN-092143 ..... c 32 N82-18443 *
US-PATENT-APPL-SN-092145 ..... c 37 N82-12442 *
US-PATENT-APPL-SN-093417 ..... c 37 N90-17154 *
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US-PATENT-APPL-SN-102934 ..... c 76 N92-21499 *
US-PATENT-APPL-SN-103077 ..... c 25 N72-32688 *
US-PATENT-APPL-SN-103078 ..... c 15 N73-12486 *
US-PATENT-APPL-SN-103091 ..... c 37 N74-23070 *
US-PATENT-APPL-SN-103229 ..... c 14 N72-22439 *
US-PATENT-APPL-SN-103230 ..... c 15 N73-14468 *
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US-PATENT-APPL-SN-103836 ..... c 37 N81-24443 *
US-PATENT-APPL-SN-104047 ..... c 15 N72-31483 *
US-PATENT-APPL-SN-104048 ..... c 31 N73-14855 *
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US-PATENT-APPL-SN-104188 ..... c 09 N70-34819 *
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US-PATENT-APPL-SN-105841 ..... c 18 N89-28553 *
US-PATENT-APPL-SN-105846 ..... c 24 N91-25200 *
US-PATENT-APPL-SN-105847 ..... c 31 N89-14351 *
US-PATENT-APPL-SN-106106 ..... c 91 N74-13130 *
US-PATENT-APPL-SN-106118 ..... c 32 N80-16261 * #
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US-PATENT-APPL-SN-106136 ..... c 33 N82-26572 *
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US-PATENT-APPL-SN-107376 ..... c 15 N73-25513 *
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US-PATENT-APPL-SN-10812 ..... c 28 N70-40367 *
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US-PATENT-APPL-SN-110402 ..... c 09 N72-27226 *
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US-PATENT-APPL-SN-115083 ..... c 07 N73-25160 *
US-PATENT-APPL-SN-115134 ..... c 06 N73-13128 *
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US-PATENT-APPL-SN-146939 ..... c 73 N75-30876 *
US-PATENT-APPL-SN-146939 ..... c 35 N92-21710 *
US-PATENT-APPL-SN-146939 ..... c 09 N93-11057 *
US-PATENT-APPL-SN-146940 ..... c 05 N73-32014 *
US-PATENT-APPL-SN-147099 ..... c 14 N73-13417 *
US-PATENT-APPL-SN-147103 ..... c 10 N73-20253 *
US-PATENT-APPL-SN-147695 ..... c 32 N84-27952 *
US-PATENT-APPL-SN-147700 ..... c 27 N82-24339 *
US-PATENT-APPL-SN-147922 ..... c 28 N73-19793 *
US-PATENT-APPL-SN-147940 ..... c 14 N72-10375 * #
US-PATENT-APPL-SN-147996 ..... c 28 N73-24784 *
US-PATENT-APPL-SN-147997 ..... c 15 N72-33477 *
US-PATENT-APPL-SN-148001 ..... c 14 N70-34298 *
US-PATENT-APPL-SN-148756 ..... c 15 N73-13466 *
US-PATENT-APPL-SN-149283 ..... c 35 N74-17153 *
US-PATENT-APPL-SN-149526 ..... c 52 N82-33996 *
US-PATENT-APPL-SN-149821 ..... c 31 N88-23917 * #
US-PATENT-APPL-SN-149822 ..... c 35 N89-26202 *
US-PATENT-APPL-SN-149830 ..... c 37 N88-23974 * #
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US-PATENT-APPL-SN-150115 ..... c 44 N82-16475 *
US-PATENT-APPL-SN-150169 ..... c 25 N91-31258 *
US-PATENT-APPL-SN-15019 ..... c 15 N72-17455 *
US-PATENT-APPL-SN-15020 ..... c 14 N70-34697 * #
US-PATENT-APPL-SN-150215 ..... c 33 N73-25952 *
US-PATENT-APPL-SN-15022 ..... c 15 N72-21465 *
US-PATENT-APPL-SN-15023 ..... c 15 N70-34699 * #
US-PATENT-APPL-SN-15024 ..... c 09 N72-21245 *
US-PATENT-APPL-SN-15025 ..... c 03 N72-20033 *
US-PATENT-APPL-SN-150690 ..... c 35 N79-33450 *
US-PATENT-APPL-SN-151112 ..... c 15 N70-34814 *
US-PATENT-APPL-SN-151114 ..... c 31 N70-34176 *
US-PATENT-APPL-SN-151411 ..... c 07 N73-26118 *
US-PATENT-APPL-SN-151412 ..... c 09 N73-32112 *
US-PATENT-APPL-SN-151413 ..... c 14 N73-12447 *
US-PATENT-APPL-SN-151598 ..... c 03 N70-34134 *
US-PATENT-APPL-SN-15222 ..... c 18 N72-25539 *
US-PATENT-APPL-SN-152328 ..... c 02 N74-20646 *
US-PATENT-APPL-SN-152849 ..... c 15 N73-30457 *
US-PATENT-APPL-SN-153240 ..... c 33 N86-19515 *
US-PATENT-APPL-SN-153245 ..... c 74 N83-29032 *
US-PATENT-APPL-SN-153246 ..... c 52 N82-29863 *
US-PATENT-APPL-SN-153266 ..... c 02 N70-38011 *
US-PATENT-APPL-SN-153542 ..... c 28 N73-32606 *
US-PATENT-APPL-SN-153543 ..... c 08 N73-26176 *
US-PATENT-APPL-SN-153624 ..... c 37 N75-27376 *
US-PATENT-APPL-SN-154094 ..... c 33 N72-27959 *
US-PATENT-APPL-SN-154663 ..... c 02 N81-26073 * #
US-PATENT-APPL-SN-154663 ..... c 09 N82-29330 *
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US-PATENT-APPL-SN-154712 ..... c 37 N88-24969 * #
US-PATENT-APPL-SN-154713 ..... c 72 N89-29169 *
US-PATENT-APPL-SN-154716 ..... c 74 N88-25302 * #
US-PATENT-APPL-SN-154718 ..... c 74 N88-25301 * #
US-PATENT-APPL-SN-154725 ..... c 37 N82-24493 *
US-PATENT-APPL-SN-154726 ..... c 25 N81-25159 *
US-PATENT-APPL-SN-154930 ..... c 44 N76-14600 *
US-PATENT-APPL-SN-154933 ..... c 14 N73-25463 *
US-PATENT-APPL-SN-154935 ..... c 11 N72-27262 *
US-PATENT-APPL-SN-155565 ..... c 08 N73-25206 *
US-PATENT-APPL-SN-155584 ..... c 09 N70-40123 *
US-PATENT-APPL-SN-155595 ..... c 26 N73-28710 *
US-PATENT-APPL-SN-155596 ..... c 15 N73-32361 *
US-PATENT-APPL-SN-155598 ..... c 15 N73-28516 *
US-PATENT-APPL-SN-156059 ..... c 37 N90-19602 *
US-PATENT-APPL-SN-156393 ..... c 35 N88-24941 * #
US-PATENT-APPL-SN-156518 ..... c 74 N89-25689 *
US-PATENT-APPL-SN-156724 ..... c 21 N73-13643 *
US-PATENT-APPL-SN-156725 ..... c 14 N73-27377 *
US-PATENT-APPL-SN-156778 ..... c 17 N72-28535 *
US-PATENT-APPL-SN-156790 ..... c 25 N82-29371 *
US-PATENT-APPL-SN-157150 ..... c 37 N84-33808 *
US-PATENT-APPL-SN-158530 ..... c 27 N83-19900 *
US-PATENT-APPL-SN-158914 ..... c 11 N70-36913 *
US-PATENT-APPL-SN-158916 ..... c 05 N70-41819 *
US-PATENT-APPL-SN-159071 ..... c 25 N90-23497 *
US-PATENT-APPL-SN-159071 ..... c 23 N91-17141 *
US-PATENT-APPL-SN-159072 ..... c 18 N89-25266 *
US-PATENT-APPL-SN-159613 ..... c 35 N88-24943 * #
US-PATENT-APPL-SN-159613 ..... c 36 N90-17132 *
US-PATENT-APPL-SN-159804 ..... c 11 N70-38196 *
US-PATENT-APPL-SN-159857 ..... c 05 N73-26072 *
US-PATENT-APPL-SN-159966 ..... c 31 N73-26876 *
US-PATENT-APPL-SN-160093 ..... c 04 N78-17031 *
US-PATENT-APPL-SN-160859 ..... c 32 N73-26910 *
US-PATENT-APPL-SN-160860 ..... c 18 N73-32437 *
US-PATENT-APPL-SN-161028 ..... c 14 N73-19420 *
US-PATENT-APPL-SN-161254 ..... c 27 N82-28441 *
US-PATENT-APPL-SN-161255 ..... c 28 N81-24280 *
US-PATENT-APPL-SN-161256 ..... c 44 N82-32841 *
US-PATENT-APPL-SN-161257 ..... c 37 N85-29282 *
US-PATENT-APPL-SN-161681 ..... c 76 N90-24169 *
US-PATENT-APPL-SN-161682 ..... c 37 N91-14613 *
US-PATENT-APPL-SN-162100 ..... c 33 N74-14939 *
US-PATENT-APPL-SN-162101 ..... c 14 N73-24473 *
US-PATENT-APPL-SN-162230 ..... c 26 N72-28761 *
US-PATENT-APPL-SN-162380 ..... c 36 N74-21091 *
US-PATENT-APPL-SN-163122 ..... c 07 N83-31603 *
US-PATENT-APPL-SN-163151 ..... c 74 N75-25706 *
US-PATENT-APPL-SN-163152 ..... c 17 N73-27446 *
US-PATENT-APPL-SN-163837 ..... c 47 N83-32232 *
US-PATENT-APPL-SN-163838 ..... c 23 N82-28353 *
US-PATENT-APPL-SN-163840 ..... c 37 N81-33482 *
US-PATENT-APPL-SN-163928 ..... c 27 N90-16949 *
US-PATENT-APPL-SN-164-584 ... c 24 N83-33950 *
US-PATENT-APPL-SN-164428 ..... c 09 N70-35440 *
US-PATENT-APPL-SN-164617 ..... c 06 N81-17057 *
US-PATENT-APPL-SN-165910 ..... c 32 N83-31918 *
US-PATENT-APPL-SN-165943 ..... c 37 N89-28831 *
US-PATENT-APPL-SN-165945 ..... c 35 N90-22025 *
US-PATENT-APPL-SN-165946 ..... c 20 N90-19298 *
US-PATENT-APPL-SN-165956 ..... c 18 N90-19278 *
US-PATENT-APPL-SN-166487 ..... c 11 N73-32152 *
US-PATENT-APPL-SN-166541 ..... c 14 N73-13415 *
US-PATENT-APPL-SN-166969 ..... c 15 N70-34249 *
US-PATENT-APPL-SN-166970 ..... c 15 N70-36409 *
US-PATENT-APPL-SN-167719 ..... c 16 N73-33397 *
US-PATENT-APPL-SN-168065 ..... c 35 N91-14590 *
US-PATENT-APPL-SN-16808 ..... c 14 N72-22445 *
US-PATENT-APPL-SN-168560 ..... c 02 N70-34856 *
US-PATENT-APPL-SN-168650 ..... c 14 N73-13416 *
US-PATENT-APPL-SN-168943 ..... c 54 N82-26987 *
US-PATENT-APPL-SN-168944 ..... c 37 N82-32731 *
US-PATENT-APPL-SN-169671 ..... c 10 N73-30205 *
US-PATENT-APPL-SN-169962 ..... c 34 N74-30608 *
US-PATENT-APPL-SN-169977 ..... c 14 N70-34794 *
US-PATENT-APPL-SN-170440 ..... c 15 N73-13462 *
US-PATENT-APPL-SN-170544 ..... c 36 N77-19416 *
US-PATENT-APPL-SN-170680 ..... c 34 N74-15652 *
US-PATENT-APPL-SN-170681 ..... c 10 N73-25240 *
US-PATENT-APPL-SN-17101 ..... c 28 N72-18766 *
US-PATENT-APPL-SN-171928 ..... c 33 N82-26570 *
US-PATENT-APPL-SN-171933 ..... c 37 N82-12441 *
US-PATENT-APPL-SN-171934 ..... c 35 N82-26628 *
US-PATENT-APPL-SN-172098 ..... c 33 N80-29583 * #
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US-PATENT-APPL-SN-172100 ..... c 27 N82-33520 *
US-PATENT-APPL-SN-172100 ..... c 31 N90-21215 *
US-PATENT-APPL-SN-172101 ..... c 76 N90-23242 *
US-PATENT-APPL-SN-172102 ..... c 26 N89-28621 *
US-PATENT-APPL-SN-172105 ..... c 33 N91-31528 *
US-PATENT-APPL-SN-172105 ..... c 63 N91-31885 *
US-PATENT-APPL-SN-172459 ..... c 06 N73-16106 *
US-PATENT-APPL-SN-172727 ..... c 33 N81-26360 *
US-PATENT-APPL-SN-172807 ..... c 07 N73-28012 *
US-PATENT-APPL-SN-173081 ..... c 28 N70-36806 *
US-PATENT-APPL-SN-173178 ..... c 33 N77-21315 *
US-PATENT-APPL-SN-173185 ..... c 23 N73-13660 *
US-PATENT-APPL-SN-173190 ..... c 05 N73-32015 *
US-PATENT-APPL-SN-173518 ..... c 60 N82-29013 *
US-PATENT-APPL-SN-173519 ..... c 44 N82-26776 *
US-PATENT-APPL-SN-173520 ..... c 31 N83-27058 *
US-PATENT-APPL-SN-173524 ..... c 35 N82-32659 *
US-PATENT-APPL-SN-173981 ..... c 14 N70-35666 *
US-PATENT-APPL-SN-174684 ..... c 33 N75-31331 *
US-PATENT-APPL-SN-175267 ..... c 14 N73-28486 *
US-PATENT-APPL-SN-175452 ..... c 27 N81-27272 *
US-PATENT-APPL-SN-175452 ..... c 27 N85-21347 *
US-PATENT-APPL-SN-175453 ..... c 85 N82-33288 *
US-PATENT-APPL-SN-175497 ..... c 08 N73-28045 *
US-PATENT-APPL-SN-175852 ..... c 25 N73-25760 *
US-PATENT-APPL-SN-175881 ..... c 09 N73-15235 *
US-PATENT-APPL-SN-175981 ..... c 16 N73-30476 *
US-PATENT-APPL-SN-175983 ..... c 31 N73-32750 *
US-PATENT-APPL-SN-176545 ..... c 31 N88-24817 * #
US-PATENT-APPL-SN-176547 ..... c 76 N90-24168 *
US-PATENT-APPL-SN-176587 ..... c 20 N88-24684 * #
US-PATENT-APPL-SN-176587 ..... c 37 N91-32508 *
US-PATENT-APPL-SN-177684 ..... c 28 N70-34860 *
US-PATENT-APPL-SN-177753 ..... c 07 N72-20154 * #
US-PATENT-APPL-SN-177985 ..... c 35 N74-15831 *
US-PATENT-APPL-SN-178192 ..... c 25 N83-33977 *
US-PATENT-APPL-SN-178193 ..... c 52 N82-29862 *
US-PATENT-APPL-SN-178195 ..... c 35 N82-24470 *
US-PATENT-APPL-SN-178213 ..... c 25 N70-33267 *
US-PATENT-APPL-SN-178215 ..... c 25 N70-34661 *
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US-PATENT-APPL-SN-178771 ..... c 23 N75-14834 *
US-PATENT-APPL-SN-180230 ..... c 33 N83-18996 *
US-PATENT-APPL-SN-180370 ..... c 28 N70-33375 *
US-PATENT-APPL-SN-180374 ..... c 28 N70-38181 *
US-PATENT-APPL-SN-180377 ..... c 15 N70-36908 *
US-PATENT-APPL-SN-180379 ..... c 21 N70-35395 *
US-PATENT-APPL-SN-180380 ..... c 09 N70-38998 *
US-PATENT-APPL-SN-180381 ..... c 21 N70-35089 *
US-PATENT-APPL-SN-180382 ..... c 28 N70-38645 *
US-PATENT-APPL-SN-180384 ..... c 11 N70-38675 *
US-PATENT-APPL-SN-180391 ..... c 28 N70-38249 *
US-PATENT-APPL-SN-180392 ..... c 09 N71-13530 *
US-PATENT-APPL-SN-180394 ..... c 15 N70-38603 *
US-PATENT-APPL-SN-180395 ..... c 15 N70-36947 *
US-PATENT-APPL-SN-180396 ..... c 11 N70-38202 *
US-PATENT-APPL-SN-180473 ..... c 28 N73-27699 *
US-PATENT-APPL-SN-180683 ..... c 10 N73-25241 *
US-PATENT-APPL-SN-180963 ..... c 14 N73-27378 *
US-PATENT-APPL-SN-181023 ..... c 15 N73-26472 *
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US-PATENT-APPL-SN-181828 ..... c 02 N70-34858 *
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US-PATENT-APPL-SN-182399 ..... c 07 N73-28013 *
US-PATENT-APPL-SN-182692 ..... c 15 N70-36535 *
US-PATENT-APPL-SN-182696 ..... c 21 N70-36938 *
US-PATENT-APPL-SN-182698 ..... c 15 N70-38620 *
US-PATENT-APPL-SN-182699 ..... c 28 N70-38504 *
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US-PATENT-APPL-SN-182880 ..... c 37 N83-19091 *
US-PATENT-APPL-SN-182881 ..... c 18 N83-28064 *
US-PATENT-APPL-SN-182977 ..... c 39 N74-13131 *
US-PATENT-APPL-SN-182978 ..... c 16 N73-13489 *
US-PATENT-APPL-SN-183240 ..... c 06 N73-30098 *
US-PATENT-APPL-SN-183475 ..... c 52 N91-14709 *
US-PATENT-APPL-SN-183707 ..... c 23 N85-33187 *
US-PATENT-APPL-SN-183977 ..... c 28 N70-38505 *
US-PATENT-APPL-SN-183978 ..... c 15 N70-38020 *
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US-PATENT-APPL-SN-184234 ..... c 76 N90-19884 *
US-PATENT-APPL-SN-184235 ..... c 32 N90-17005 *
US-PATENT-APPL-SN-184236 ..... c 37 N90-17153 *
US-PATENT-APPL-SN-18427 ..... c 09 N72-23172 *
US-PATENT-APPL-SN-184649 ..... c 07 N70-36911 *
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US-PATENT-APPL-SN-185869 ..... c 71 N82-16800 *
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US-PATENT-APPL-SN-186881 ..... c 74 N82-30071 *
US-PATENT-APPL-SN-187106 ..... c 74 N83-17305 *
US-PATENT-APPL-SN-187143 ..... c 36 N74-13205 *
US-PATENT-APPL-SN-187262 ..... c 15 N73-27406 *
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US-PATENT-APPL-SN-188594 ..... c 15 N70-34967 *
US-PATENT-APPL-SN-188836 ..... c 35 N74-34857 *
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US-PATENT-APPL-SN-188928 ..... c 37 N74-13178 *
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US-PATENT-APPL-SN-189375 ..... c 18 N73-14584 *
US-PATENT-APPL-SN-189438 ..... c 35 N76-15431 *
US-PATENT-APPL-SN-189648 ..... c 32 N70-36536 *
US-PATENT-APPL-SN-18982 ..... c 28 N72-11708 *
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US-PATENT-APPL-SN-191744 ..... c 33 N82-29538 *
US-PATENT-APPL-SN-191746 ..... c 26 N81-16209 * #
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US-PATENT-APPL-SN-193456 ..... c 10 N73-25243 *
US-PATENT-APPL-SN-193612 ..... c 37 N91-17388 *
US-PATENT-APPL-SN-193671 ..... c 15 N73-12488 *
US-PATENT-APPL-SN-193672 ..... c 54 N74-14845 *
US-PATENT-APPL-SN-193814 ..... c 14 N73-30393 *
US-PATENT-APPL-SN-193947 ..... c 14 N73-13420 *
US-PATENT-APPL-SN-193980 ..... c 31 N74-13177 *
US-PATENT-APPL-SN-195061 ..... c 05 N73-25125 *
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US-PATENT-APPL-SN-195547 ..... c 32 N83-18975 *
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US-PATENT-APPL-SN-197551 ..... c 31 N70-34296 *
US-PATENT-APPL-SN-197553 ..... c 08 N70-34778 *
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US-PATENT-APPL-SN-198093 ..... c 39 N83-20280 *
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US-PATENT-APPL-SN-201904 ..... c 37 N74-21064 *
US-PATENT-APPL-SN-202024 ..... c 14 N70-34156 *
US-PATENT-APPL-SN-202029 ..... c 11 N70-34786 *
US-PATENT-APPL-SN-202030 ..... c 31 N71-10747 *
US-PATENT-APPL-SN-202228 ..... c 34 N82-11399 * #
US-PATENT-APPL-SN-202228 ..... c 34 N85-29179 *
US-PATENT-APPL-SN-202750 ..... c 19 N74-21015 *
US-PATENT-APPL-SN-202769 ..... c 05 N73-27941 *
US-PATENT-APPL-SN-203177 ..... c 39 N88-25011 * #
US-PATENT-APPL-SN-203178 ..... c 34 N90-19534 *
US-PATENT-APPL-SN-203178 ..... c 34 N91-31596 *
US-PATENT-APPL-SN-203271 ..... c 51 N74-15778 *
US-PATENT-APPL-SN-203374 ..... c 32 N91-25316 *
US-PATENT-APPL-SN-203405 ..... c 02 N73-26006 *
US-PATENT-APPL-SN-203409 ..... c 28 N70-38197 *
US-PATENT-APPL-SN-203411 ..... c 33 N70-34812 *
US-PATENT-APPL-SN-20370 ..... c 33 N79-33393 *
US-PATENT-APPL-SN-204015 ..... c 09 N70-38201 *
US-PATENT-APPL-SN-205047 ..... c 15 N73-32360 *
US-PATENT-APPL-SN-205470 ..... c 08 N71-18752 *
US-PATENT-APPL-SN-205675 ..... c 14 N73-30386 *
US-PATENT-APPL-SN-205771 ..... c 31 N89-29578 *
US-PATENT-APPL-SN-205898 ..... c 09 N90-23415 *
US-PATENT-APPL-SN-205899 ..... c 35 N90-22769 *
US-PATENT-APPL-SN-205900 ..... c 35 N90-22770 *
US-PATENT-APPL-SN-206266 ..... c 76 N74-20329 *
US-PATENT-APPL-SN-206266 ..... c 76 N75-25730 *
US-PATENT-APPL-SN-206279 ..... c 02 N73-26005 *
US-PATENT-APPL-SN-206279 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-206506 ..... c 33 N82-24422 *
US-PATENT-APPL-SN-206698 ..... c 15 N73-30459 *
US-PATENT-APPL-SN-207135 ..... c 35 N83-27184 *
US-PATENT-APPL-SN-207211 ..... c 07 N73-30113 *
US-PATENT-APPL-SN-209478 ..... c 07 N70-38200 *
US-PATENT-APPL-SN-209479 ..... c 15 N70-34850 *
US-PATENT-APPL-SN-209535 ..... c 28 N73-24783 *
US-PATENT-APPL-SN-20960 ..... c 15 N72-17453 *
US-PATENT-APPL-SN-209618 ..... c 33 N75-19520 *
US-PATENT-APPL-SN-209618 ..... c 33 N75-25041 *
US-PATENT-APPL-SN-209801 ..... c 08 N70-40125 *
US-PATENT-APPL-SN-210277 ..... c 39 N88-30160 * #
US-PATENT-APPL-SN-210405 ..... c 74 N84-11921 *
US-PATENT-APPL-SN-210480 ..... c 05 N90-20078 *
US-PATENT-APPL-SN-210486 ..... c 26 N90-21170 *
US-PATENT-APPL-SN-210486 ..... c 39 N92-28757 *
US-PATENT-APPL-SN-210486 ..... c 39 N92-29101 *
US-PATENT-APPL-SN-210486 ..... c 39 N92-29155 *
US-PATENT-APPL-SN-210487 ..... c 35 N90-17117 *
US-PATENT-APPL-SN-210498 ..... c 35 N84-12444 *
US-PATENT-APPL-SN-210506 ..... c 39 N83-32081 *
US-PATENT-APPL-SN-210632 ..... c 26 N83-10170 *
US-PATENT-APPL-SN-211332 ..... c 02 N74-10034 *
US-PATENT-APPL-SN-211411 ..... c 11 N73-20267 *
US-PATENT-APPL-SN-211464 ..... c 28 N70-36910 *
US-PATENT-APPL-SN-212028 ..... c 09 N73-14214 *
US-PATENT-APPL-SN-212165 ..... c 14 N73-25460 *
US-PATENT-APPL-SN-212173 ..... c 02 N71-13421 *
US-PATENT-APPL-SN-212174 ..... c 15 N70-34859 *
US-PATENT-APPL-SN-212496 ..... c 03 N70-36803 *
US-PATENT-APPL-SN-212497 ..... c 11 N71-28779 *
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US-PATENT-APPL-SN-212921 ..... c 07 N73-20176 *
US-PATENT-APPL-SN-212949 ..... c 35 N83-35338 *
US-PATENT-APPL-SN-212977 ..... c 15 N73-30460 *
US-PATENT-APPL-SN-213004 ..... c 14 N73-19421 *
US-PATENT-APPL-SN-213392 ..... c 27 N90-23566 *
US-PATENT-APPL-SN-213558 ..... c 51 N91-30667 *
US-PATENT-APPL-SN-213558 ..... c 51 N92-34229 *
US-PATENT-APPL-SN-213558 ..... c 51 N92-34231 *
US-PATENT-APPL-SN-213558 ..... c 51 N93-10110 *
US-PATENT-APPL-SN-213559 ..... c 51 N91-21700 *
US-PATENT-APPL-SN-213559 ..... c 51 N92-34229 *
US-PATENT-APPL-SN-213559 ..... c 51 N92-34231 *
US-PATENT-APPL-SN-213559 ..... c 51 N93-10109 *
US-PATENT-APPL-SN-213836 ..... c 15 N70-38601 *
US-PATENT-APPL-SN-213880 ..... c 54 N90-25498 *
US-PATENT-APPL-SN-213949 ..... c 07 N73-20175 *
US-PATENT-APPL-SN-214006 ..... c 37 N74-18126 *
US-PATENT-APPL-SN-214084 ..... c 37 N74-18123 *
US-PATENT-APPL-SN-214086 ..... c 14 N73-30395 *
US-PATENT-APPL-SN-214089 ..... c 35 N74-21018 *
US-PATENT-APPL-SN-214361 ..... c 37 N83-32067 *
US-PATENT-APPL-SN-21508 ..... c 08 N72-20176 *
US-PATENT-APPL-SN-21644 ..... c 05 N72-22092 *
US-PATENT-APPL-SN-216710 ..... c 12 N70-38997 *
US-PATENT-APPL-SN-216711 ..... c 03 N70-34157 *
US-PATENT-APPL-SN-216939 ..... c 14 N70-40400 *
US-PATENT-APPL-SN-217213 ..... c 37 N74-11301 *
US-PATENT-APPL-SN-21732 ..... c 15 N70-26819 * #
US-PATENT-APPL-SN-217336 ..... c 27 N82-29456 *
US-PATENT-APPL-SN-217533 ..... c 76 N88-29602 * #
US-PATENT-APPL-SN-217725 ..... c 35 N91-15511 *
US-PATENT-APPL-SN-218585 ..... c 27 N82-24340 *
US-PATENT-APPL-SN-218586 ..... c 36 N81-22344 * #
US-PATENT-APPL-SN-218587 ..... c 27 N82-28440 *
US-PATENT-APPL-SN-218588 ..... c 27 N82-33521 *
US-PATENT-APPL-SN-218792 ..... c 27 N91-31307 *
US-PATENT-APPL-SN-218965 ..... c 10 N73-32145 *
US-PATENT-APPL-SN-219016 ..... c 27 N92-10090 *
US-PATENT-APPL-SN-21906 ..... c 09 N72-17157 *
US-PATENT-APPL-SN-219295 ..... c 61 N91-14741 *
US-PATENT-APPL-SN-219435 ..... c 24 N74-27035 *
US-PATENT-APPL-SN-219436 ..... c 15 N72-21489 * #
US-PATENT-APPL-SN-219590 ..... c 06 N73-32030 *
US-PATENT-APPL-SN-219640 ..... c 74 N83-13978 *
US-PATENT-APPL-SN-219677 ..... c 44 N82-31764 *
US-PATENT-APPL-SN-219678 ..... c 44 N82-29709 *
US-PATENT-APPL-SN-219680 ..... c 27 N82-28442 *
US-PATENT-APPL-SN-219681 ..... c 24 N82-29362 *
US-PATENT-APPL-SN-219681 ..... c 54 N84-11758 *
US-PATENT-APPL-SN-219722 ..... c 03 N75-30132 *
US-PATENT-APPL-SN-219806 ..... c 07 N74-28226 *
US-PATENT-APPL-SN-219968 ..... c 33 N83-27126 *
US-PATENT-APPL-SN-220212 ..... c 33 N83-31952 *
US-PATENT-APPL-SN-220213 ..... c 37 N85-20337 *
US-PATENT-APPL-SN-220214 ..... c 44 N82-29710 *
US-PATENT-APPL-SN-220251 ..... c 37 N74-15125 *
US-PATENT-APPL-SN-220274 ..... c 31 N72-20840 * #
US-PATENT-APPL-SN-220274 ..... c 18 N74-22136 *
US-PATENT-APPL-SN-220785 ..... c 85 N74-34672 *
US-PATENT-APPL-SN-221093 ..... c 17 N73-32415 *
US-PATENT-APPL-SN-221276 ..... c 14 N70-41955 *
US-PATENT-APPL-SN-221386 ..... c 23 N90-21118 *
US-PATENT-APPL-SN-221386 ..... c 23 N91-14418 *
US-PATENT-APPL-SN-221388 ..... c 37 N90-20408 *
US-PATENT-APPL-SN-221472 ..... c 54 N89-13889 * #
US-PATENT-APPL-SN-221634 ..... c 05 N70-34857 *
US-PATENT-APPL-SN-221637 ..... c 26 N70-36805 *
US-PATENT-APPL-SN-221670 ..... c 35 N77-14408 *
US-PATENT-APPL-SN-221685 ..... c 35 N74-21062 *
US-PATENT-APPL-SN-221714 ..... c 09 N73-32110 *
US-PATENT-APPL-SN-221833 ..... c 09 N73-27150 * #
US-PATENT-APPL-SN-221945 ..... c 31 N70-36410 *
US-PATENT-APPL-SN-22265 ..... c 14 N72-21405 *
US-PATENT-APPL-SN-223003 ..... c 33 N70-36846 *
US-PATENT-APPL-SN-223122 ..... c 37 N91-14614 *
US-PATENT-APPL-SN-223124 ..... c 31 N90-19427 *
US-PATENT-APPL-SN-22320 ..... c 14 N72-11365 *
US-PATENT-APPL-SN-223560 ..... c 10 N73-32144 *
US-PATENT-APPL-SN-224231 ..... c 06 N83-10040 *
US-PATENT-APPL-SN-224231 ..... c 06 N84-34443 *
US-PATENT-APPL-SN-224232 ..... c 36 N83-29680 *
US-PATENT-APPL-SN-224489 ..... c 31 N74-18089 *
US-PATENT-APPL-SN-225427 ..... c 37 N91-15544 *
US-PATENT-APPL-SN-225499 ..... c 37 N84-12491 *
US-PATENT-APPL-SN-225501 ..... c 44 N82-28780 *
US-PATENT-APPL-SN-226476 ..... c 10 N73-32143 *
US-PATENT-APPL-SN-226477 ..... c 74 N74-27866 *
US-PATENT-APPL-SN-226551 ..... c 06 N73-26100 *
US-PATENT-APPL-SN-227682 ..... c 14 N70-34161 *
US-PATENT-APPL-SN-227683 ..... c 02 N70-36804 *
US-PATENT-APPL-SN-227692 ..... c 14 N70-40003 *
US-PATENT-APPL-SN-227977 ..... c 25 N76-18245 *
US-PATENT-APPL-SN-228049 ..... c 37 N79-33467 *
US-PATENT-APPL-SN-228150 ..... c 05 N73-32013 *
US-PATENT-APPL-SN-228163 ..... c 44 N74-19693 *
US-PATENT-APPL-SN-228189 ..... c 35 N74-11283 *
US-PATENT-APPL-SN-228190 ..... c 23 N73-30666 *
US-PATENT-APPL-SN-228229 ..... c 27 N77-31308 *
US-PATENT-APPL-SN-228507 ..... c 11 N70-38182 *
US-PATENT-APPL-SN-228569 ..... c 14 N71-16014 *
US-PATENT-APPL-SN-229128 ..... c 14 N73-28490 *
US-PATENT-APPL-SN-229143 ..... c 09 N72-21248 * #
US-PATENT-APPL-SN-229143 ..... c 33 N77-26387 *
US-PATENT-APPL-SN-229231 ..... c 35 N83-34272 *
US-PATENT-APPL-SN-229233 ..... c 27 N83-31855 *
US-PATENT-APPL-SN-229239 ..... c 31 N83-31897 *
US-PATENT-APPL-SN-229286 ..... c 33 N71-29052 *
US-PATENT-APPL-SN-229287 ..... c 35 N78-29421 *
US-PATENT-APPL-SN-229354 ..... c 62 N74-14920 *
US-PATENT-APPL-SN-229413 ..... c 14 N73-32323 *
US-PATENT-APPL-SN-229693 ..... c 37 N84-22958 *
US-PATENT-APPL-SN-229916 ..... c 46 N74-13011 *
US-PATENT-APPL-SN-230613 ..... c 05 N83-27975 *
US-PATENT-APPL-SN-231025 ..... c 33 N88-29095 * #
US-PATENT-APPL-SN-231026 ..... c 27 N91-15402 *
US-PATENT-APPL-SN-231027 ..... c 27 N90-21177 *
US-PATENT-APPL-SN-23132 ..... c 08 N72-22163 *
US-PATENT-APPL-SN-231520 ..... c 27 N71-29155 *
US-PATENT-APPL-SN-231543 ..... c 07 N83-20944 *
US-PATENT-APPL-SN-231604 ..... c 28 N70-39925 *
US-PATENT-APPL-SN-231662 ..... c 14 N73-30392 *
US-PATENT-APPL-SN-232021 ..... c 04 N74-13420 *
US-PATENT-APPL-SN-232318 ..... c 11 N71-15960 *
US-PATENT-APPL-SN-232734 ..... c 29 N90-20236 *
US-PATENT-APPL-SN-232735 ..... c 76 N90-24150 *
US-PATENT-APPL-SN-232914 ..... c 15 N70-36412 *
US-PATENT-APPL-SN-233098 ..... c 12 N73-25262 *
US-PATENT-APPL-SN-233173 ..... c 12 N73-28144 *
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US-PATENT-APPL-SN-233270 ..... c 52 N83-27578 *
US-PATENT-APPL-SN-233271 ..... c 27 N83-34043 *
US-PATENT-APPL-SN-233519 ..... c 20 N74-13502 *
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US-PATENT-APPL-SN-234223 ..... c 35 N83-21312 *
US-PATENT-APPL-SN-234224 ..... c 36 N83-34304 *
US-PATENT-APPL-SN-234225 ..... c 33 N83-36357 *
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US-PATENT-APPL-SN-235150 ..... c 36 N91-15528 *
US-PATENT-APPL-SN-235162 ..... c 08 N71-12501 *
US-PATENT-APPL-SN-235266 ..... c 26 N73-32571 *
US-PATENT-APPL-SN-235268 ..... c 36 N74-15145 *
US-PATENT-APPL-SN-235269 ..... c 09 N73-30181 *
US-PATENT-APPL-SN-235295 ..... c 09 N73-30185 *
US-PATENT-APPL-SN-23532 ..... c 07 N72-21117 *
US-PATENT-APPL-SN-235338 ..... c 71 N74-31148 *
US-PATENT-APPL-SN-235472 ..... c 60 N84-28492 *
US-PATENT-APPL-SN-235588 ..... c 28 N71-28928 *
US-PATENT-APPL-SN-235796 ..... c 35 N82-28604 *
US-PATENT-APPL-SN-235797 ..... c 44 N83-32175 *
US-PATENT-APPL-SN-235868 ..... c 34 N83-29625 *
US-PATENT-APPL-SN-235957 ..... c 14 N73-27376 * #
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US-PATENT-APPL-SN-236749 ..... c 15 N70-40180 *
US-PATENT-APPL-SN-236985 ..... c 44 N74-19692 *
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US-PATENT-APPL-SN-237694 ..... c 35 N74-11284 *
US-PATENT-APPL-SN-238047 ..... c 33 N74-12951 *
US-PATENT-APPL-SN-238257 ..... c 07 N84-33410 *
US-PATENT-APPL-SN-238263 ..... c 35 N74-10415 *
US-PATENT-APPL-SN-238264 ..... c 37 N74-21061 *
US-PATENT-APPL-SN-238264 ..... c 37 N74-32921 *
US-PATENT-APPL-SN-238264 ..... c 37 N76-15461 *
US-PATENT-APPL-SN-238421 ..... c 28 N71-29153 *
US-PATENT-APPL-SN-238785 ..... c 44 N83-14693 *
US-PATENT-APPL-SN-238786 ..... c 37 N83-26078 *
US-PATENT-APPL-SN-238790 ..... c 44 N82-29708 *
US-PATENT-APPL-SN-238791 ..... c 71 N84-14873 *
US-PATENT-APPL-SN-238826 ..... c 28 N77-10213 *
US-PATENT-APPL-SN-238887 ..... c 37 N81-22360 * #
US-PATENT-APPL-SN-238888 ..... c 37 N84-28082 *
US-PATENT-APPL-SN-239259 ..... c 27 N90-23546 *
US-PATENT-APPL-SN-239260 ..... c 37 N89-12867 * #

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US-PATENT-APPL-SN-239574 ..... c 09 N73-32107 *
US-PATENT-APPL-SN-239575 ..... c 09 N74-19528 *
US-PATENT-APPL-SN-239576 ..... c 33 N74-14935 *
US-PATENT-APPL-SN-239577 ..... c 35 N74-13132 *
US-PATENT-APPL-SN-239803 ..... c 70 N74-13436 *
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US-PATENT-APPL-SN-241154 ..... c 04 N84-27713 *
US-PATENT-APPL-SN-241155 ..... c 27 N84-14324 *
US-PATENT-APPL-SN-24154 ..... c 15 N70-35679 * #
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US-PATENT-APPL-SN-24155 ..... c 14 N73-26432 *
US-PATENT-APPL-SN-241614 ..... c 10 N73-27171 *
US-PATENT-APPL-SN-241615 ..... c 09 N73-32111 *
US-PATENT-APPL-SN-242027 ..... c 52 N74-12778 *
US-PATENT-APPL-SN-242028 ..... c 21 N73-30641 *
US-PATENT-APPL-SN-24224 ..... c 09 N72-20200 *
US-PATENT-APPL-SN-242253 ..... c 03 N91-15142 *
US-PATENT-APPL-SN-242254 ..... c 33 N91-31530 *
US-PATENT-APPL-SN-242662 ..... c 74 N74-15095 *
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US-PATENT-APPL-SN-242795 ..... c 18 N83-20996 *
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US-PATENT-APPL-SN-242796 ..... c 44 N83-13579 *
US-PATENT-APPL-SN-242797 ..... c 74 N85-22139 *
US-PATENT-APPL-SN-243374 ..... c 15 N77-10112 *
US-PATENT-APPL-SN-243682 ..... c 74 N83-19596 *
US-PATENT-APPL-SN-243683 ..... c 33 N81-22280 * #
US-PATENT-APPL-SN-243683 ..... c 33 N83-28319 *
US-PATENT-APPL-SN-243683 ..... c 33 N84-14424 *
US-PATENT-APPL-SN-243683 ..... c 33 N84-33660 *
US-PATENT-APPL-SN-243684 ..... c 37 N84-12492 *
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US-PATENT-APPL-SN-244158 ..... c 32 N74-20863 *
US-PATENT-APPL-SN-244367 ..... c 74 N89-13253 * #
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US-PATENT-APPL-SN-244377 ..... c 31 N91-15424 *
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US-PATENT-APPL-SN-244566 ..... c 74 N74-20008 *
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US-PATENT-APPL-SN-246774 ..... c 34 N83-31993 *
US-PATENT-APPL-SN-246777 ..... c 45 N83-25217 *
US-PATENT-APPL-SN-246778 ..... c 36 N83-35350 *
US-PATENT-APPL-SN-247055 ..... c 37 N74-11300 *
US-PATENT-APPL-SN-247090 ..... c 37 N74-18128 *
US-PATENT-APPL-SN-247136 ..... c 14 N71-30265 *
US-PATENT-APPL-SN-247419 ..... c 14 N70-36907 *
US-PATENT-APPL-SN-247423 ..... c 01 N71-13410 *
US-PATENT-APPL-SN-247434 ... c 25 N76-29379 *
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US-PATENT-APPL-SN-248009 ..... c 23 N91-27220 *
US-PATENT-APPL-SN-248010 ..... c 37 N89-12866 * #
US-PATENT-APPL-SN-248018 ..... c 24 N90-25197 *
US-PATENT-APPL-SN-248019 ..... c 76 N89-14120 * #
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US-PATENT-APPL-SN-249542 ..... c 28 N70-41576 *
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US-PATENT-APPL-SN-250196 ..... c 37 N89-12868 * #
US-PATENT-APPL-SN-250451 ..... c 08 N70-34787 *
US-PATENT-APPL-SN-250468 ..... c 05 N91-27156 *
US-PATENT-APPL-SN-250469 ..... c 37 N90-22042 *
US-PATENT-APPL-SN-250480 ..... c 27 N92-22044 *
US-PATENT-APPL-SN-250567 ..... c 33 N71-24876 *
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US-PATENT-APPL-SN-250661 ..... c 23 N89-11814 * #
US-PATENT-APPL-SN-250662 ..... c 37 N91-14615 *
US-PATENT-APPL-SN-250766 ..... c 07 N73-30115 *
US-PATENT-APPL-SN-250974 ..... c 31 N71-15664 *
US-PATENT-APPL-SN-251009 ..... c 33 N84-16452 *
US-PATENT-APPL-SN-251073 ..... c 35 N90-23713 *
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US-PATENT-APPL-SN-251451 ..... c 09 N70-35425 *
US-PATENT-APPL-SN-251499 ..... c 24 N91-15320 *
US-PATENT-APPL-SN-251500 ..... c 54 N92-29129 *
US-PATENT-APPL-SN-251609 ..... c 05 N73-30078 *
US-PATENT-APPL-SN-251621 ..... c 16 N73-32391 *
US-PATENT-APPL-SN-251752 ..... c 24 N74-30001 *
US-PATENT-APPL-SN-25175 ..... c 28 N70-39895 *
US-PATENT-APPL-SN-252077 ..... c 34 N90-21999 *
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US-PATENT-APPL-SN-252259 ..... c 33 N70-34545 *
US-PATENT-APPL-SN-253249 ..... c 33 N74-11050 *
US-PATENT-APPL-SN-253405 ..... c 10 N73-26228 *
US-PATENT-APPL-SN-253725 ..... c 35 N74-13129 *
US-PATENT-APPL-SN-253774 ..... c 25 N70-36946 *
US-PATENT-APPL-SN-254052 ..... c 54 N93-14713 *
US-PATENT-APPL-SN-254173 ..... c 35 N75-13213 *
US-PATENT-APPL-SN-254177 ..... c 10 N73-26230 *
US-PATENT-APPL-SN-254323 ..... c 35 N76-15434 *
US-PATENT-APPL-SN-254575 ..... c 25 N83-10126 *
US-PATENT-APPL-SN-254688 ..... c 52 N83-27577 *
US-PATENT-APPL-SN-254847 ..... c 15 N71-22874 *
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US-PATENT-APPL-SN-25488 ..... c 08 N72-25206 *
US-PATENT-APPL-SN-255132 ..... c 14 N71-15598 *
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US-PATENT-APPL-SN-256484 ..... c 06 N70-34946 *
US-PATENT-APPL-SN-256493 ..... c 20 N77-17143 *
US-PATENT-APPL-SN-257346 ..... c 15 N70-36901 *
US-PATENT-APPL-SN-257593 ..... c 36 N90-25340 *
US-PATENT-APPL-SN-258152 ..... c 35 N74-15090 *
US-PATENT-APPL-SN-258171 ..... c 34 N74-27744 *
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US-PATENT-APPL-SN-259056 ..... c 27 N82-29455 *
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US-PATENT-APPL-SN-259209 ..... c 01 N83-35992 *
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US-PATENT-APPL-SN-259211 ..... c 44 N84-14583 *
US-PATENT-APPL-SN-259212 ..... c 35 N84-22931 *
US-PATENT-APPL-SN-259487 ..... c 33 N70-36847 *
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US-PATENT-APPL-SN-260241 ..... c 74 N74-21304 *
US-PATENT-APPL-SN-260762 ..... c 72 N91-14813 *
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US-PATENT-APPL-SN-261912 ..... c 14 N70-34818 *
US-PATENT-APPL-SN-261917 ..... c 09 N70-40272 *
US-PATENT-APPL-SN-261918 ..... c 28 N70-41447 *
US-PATENT-APPL-SN-262268 ..... c 24 N91-25200 *
US-PATENT-APPL-SN-262430 ..... c 35 N74-18323 *
US-PATENT-APPL-SN-262596 ..... c 14 N71-28958 *
US-PATENT-APPL-SN-262596 ..... c 62 N76-31946 *
US-PATENT-APPL-SN-262851 ..... c 74 N90-22383 *
US-PATENT-APPL-SN-263230 ..... c 33 N74-20860 *
US-PATENT-APPL-SN-263498 ..... c 34 N74-27859 *
US-PATENT-APPL-SN-26375 ..... c 02 N70-33286 *
US-PATENT-APPL-SN-26375 ..... c 02 N70-34858 *
US-PATENT-APPL-SN-263815 ..... c 09 N74-17955 *
US-PATENT-APPL-SN-263828 ..... c 34 N83-19015 *
US-PATENT-APPL-SN-263829 ..... c 05 N84-12154 *
US-PATENT-APPL-SN-263830 ..... c 44 N83-28573 *
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US-PATENT-APPL-SN-264107 ..... c 35 N90-22023 *
US-PATENT-APPL-SN-264268 ..... c 31 N78-17238 *
US-PATENT-APPL-SN-264326 ..... c 63 N91-31885 *
US-PATENT-APPL-SN-264378 ..... c 24 N83-10117 *
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US-PATENT-APPL-SN-264380 ..... c 44 N83-14692 *
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US-PATENT-APPL-SN-264729 ..... c 33 N70-34540 *
US-PATENT-APPL-SN-264731 ..... c 09 N70-41655 *
US-PATENT-APPL-SN-264735 ..... c 28 N70-33265 *
US-PATENT-APPL-SN-264736 ..... c 28 N70-36802 *
US-PATENT-APPL-SN-264993 ..... c 05 N91-14345 *
US-PATENT-APPL-SN-26573 ..... c 31 N72-22874 *
US-PATENT-APPL-SN-266045 ..... c 27 N91-15403 *
US-PATENT-APPL-SN-266107 ..... c 11 N71-15925 *
US-PATENT-APPL-SN-266253 ..... c 04 N84-22546 *
US-PATENT-APPL-SN-266254 ..... c 24 N83-13172 *
US-PATENT-APPL-SN-266255 ..... c 44 N83-27344 *
US-PATENT-APPL-SN-266256 ..... c 24 N83-13171 *
US-PATENT-APPL-SN-266687 ..... c 32 N84-22820 *
US-PATENT-APPL-SN-266688 ..... c 37 N83-36483 *
US-PATENT-APPL-SN-266771 ..... c 37 N74-18127 *
US-PATENT-APPL-SN-266820 ..... c 07 N74-31270 *
US-PATENT-APPL-SN-266822 ..... c 32 N74-10132 *
US-PATENT-APPL-SN-266832 ..... c 33 N74-10195 *
US-PATENT-APPL-SN-266866 ..... c 33 N73-32818 *
US-PATENT-APPL-SN-266899 ..... c 60 N74-12888 *
US-PATENT-APPL-SN-266911 ..... c 36 N74-20009 *
US-PATENT-APPL-SN-266912 ..... c 32 N74-19788 *
US-PATENT-APPL-SN-266913 ..... c 31 N74-23065 *
US-PATENT-APPL-SN-266925 ..... c 54 N74-17853 *
US-PATENT-APPL-SN-266928 ..... c 26 N74-10521 *
US-PATENT-APPL-SN-266930 ..... c 54 N74-12779 *
US-PATENT-APPL-SN-266940 ..... c 32 N74-32598 *
US-PATENT-APPL-SN-266943 ..... c 72 N74-19310 *
US-PATENT-APPL-SN-267146 ..... c 37 N90-20409 *
US-PATENT-APPL-SN-267178 ..... c 74 N84-11920 *
US-PATENT-APPL-SN-267179 ..... c 35 N84-12445 *
US-PATENT-APPL-SN-267572 ..... c 73 N74-26767 *
US-PATENT-APPL-SN-267768 ..... c 70 N74-21300 *
US-PATENT-APPL-SN-267862 ..... c 33 N74-21851 *
US-PATENT-APPL-SN-267935 ..... c 71 N83-17235 *
US-PATENT-APPL-SN-269073 ..... c 52 N74-26625 *
US-PATENT-APPL-SN-269212 ..... c 07 N71-10775 *
US-PATENT-APPL-SN-269215 ..... c 14 N70-41332 *
US-PATENT-APPL-SN-269222 ..... c 15 N70-38225 *
US-PATENT-APPL-SN-269450 ..... c 36 N76-18427 *
US-PATENT-APPL-SN-270118 ..... c 33 N71-17610 *
US-PATENT-APPL-SN-270189 ..... c 07 N89-23466 * #
US-PATENT-APPL-SN-270763 ..... c 36 N84-14509 *
US-PATENT-APPL-SN-271265 ..... c 71 N91-14807 *
US-PATENT-APPL-SN-271821 ..... c 15 N71-10778 *
US-PATENT-APPL-SN-271822 ..... c 15 N71-15967 *
US-PATENT-APPL-SN-271823 ..... c 27 N71-28929 *
US-PATENT-APPL-SN-271824 ..... c 07 N71-21476 *
US-PATENT-APPL-SN-271951 ..... c 35 N74-15092 *
US-PATENT-APPL-SN-272152 ..... c 27 N83-29388 *
US-PATENT-APPL-SN-272233 ..... c 44 N81-27615 * #
US-PATENT-APPL-SN-272234 ..... c 25 N83-13188 *
US-PATENT-APPL-SN-272406 ..... c 33 N84-14422 *
US-PATENT-APPL-SN-272407 ..... c 52 N83-21785 *
US-PATENT-APPL-SN-272837 ..... c 71 N83-36846 *
US-PATENT-APPL-SN-273222 ..... c 33 N74-27683 *
US-PATENT-APPL-SN-273240 ..... c 35 N74-16135 *
US-PATENT-APPL-SN-27340 ..... c 15 N72-20442 *
US-PATENT-APPL-SN-273519 ..... c 35 N75-25122 *
US-PATENT-APPL-SN-273534 ..... c 09 N70-38712 *
US-PATENT-APPL-SN-274348 ..... c 60 N76-18800 *
US-PATENT-APPL-SN-274360 ..... c 32 N74-20809 *
US-PATENT-APPL-SN-274705 ..... c 44 N83-21503 *
US-PATENT-APPL-SN-274706 ..... c 44 N83-21504 *
US-PATENT-APPL-SN-274708 ..... c 35 N84-22929 *
US-PATENT-APPL-SN-275118 ..... c 35 N74-18088 *
US-PATENT-APPL-SN-275909 ..... c 33 N85-21491 *
US-PATENT-APPL-SN-276076 ..... c 72 N84-16959 * #
US-PATENT-APPL-SN-276599 ..... c 74 N81-19896 *
US-PATENT-APPL-SN-276748 ..... c 33 N83-34189 *
US-PATENT-APPL-SN-276749 ..... c 74 N84-23247 *
US-PATENT-APPL-SN-277404 ..... c 05 N70-39922 *
US-PATENT-APPL-SN-277436 ..... c 37 N74-25968 *
US-PATENT-APPL-SN-277833 ..... c 03 N70-41580 *
US-PATENT-APPL-SN-277904 ..... c 28 N74-27425 *
US-PATENT-APPL-SN-277961 ..... c 33 N70-36617 *
US-PATENT-APPL-SN-278137 ..... c 51 N91-21701 *
US-PATENT-APPL-SN-278790 ..... c 15 N70-34664 *
US-PATENT-APPL-SN-279170 ..... c 34 N92-16243 *
US-PATENT-APPL-SN-2792 ..... c 14 N70-33386 *
US-PATENT-APPL-SN-279624 ..... c 24 N89-23623 * #
US-PATENT-APPL-SN-279625 ..... c 31 N90-23586 *
US-PATENT-APPL-SN-279630 ..... c 60 N90-25583 *
US-PATENT-APPL-SN-279646 ..... c 08 N71-21042 *
US-PATENT-APPL-SN-279676 ..... c 33 N89-29679 * #
US-PATENT-APPL-SN-279677 ..... c 31 N90-26168 *
US-PATENT-APPL-SN-280029 ..... c 35 N74-15126 *
US-PATENT-APPL-SN-280031 ..... c 26 N73-26752 *
US-PATENT-APPL-SN-280032 ..... c 35 N74-15093 *
US-PATENT-APPL-SN-280151 ..... c 27 N83-36220 *
US-PATENT-APPL-SN-280152 ..... c 54 N86-22112 *
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US-PATENT-APPL-SN-280154 ..... c 33 N83-10345 *
US-PATENT-APPL-SN-280155 ..... c 24 N84-11214 *
US-PATENT-APPL-SN-280305 ..... c 34 N74-23039 *
US-PATENT-APPL-SN-280362 ..... c 14 N71-28935 *
US-PATENT-APPL-SN-280390 ..... c 37 N74-15128 *
US-PATENT-APPL-SN-280580 ..... c 12 N71-21089 *
US-PATENT-APPL-SN-280776 ..... c 14 N70-40273 *
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US-PATENT-APPL-SN-281069 ..... c 14 N70-35394 *
US-PATENT-APPL-SN-28175 ..... c 21 N70-33279 *
US-PATENT-APPL-SN-281875 ..... c 25 N74-18551 *
US-PATENT-APPL-SN-281876 ..... c 52 N74-20726 *
US-PATENT-APPL-SN-281877 ..... c 35 N74-15146 *
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US-PATENT-APPL-SN-282129 ..... c 24 N83-25789 *
US-PATENT-APPL-SN-282191 ..... c 35 N83-29651 *
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US-PATENT-APPL-SN-282298 ..... c 33 N85-29144 *
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US-PATENT-APPL-SN-283106 ..... c 62 N91-14769 *
US-PATENT-APPL-SN-283431 ..... c 36 N91-17360 * #
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US-PATENT-APPL-SN-284265 ..... c 14 N70-34799 *
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US-PATENT-APPL-SN-292131 ..... c 18 N91-14374 *
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US-PATENT-APPL-SN-304705 ..... c 32 N74-20810 *
US-PATENT-APPL-SN-304749 ..... c 11 N71-16028 *
US-PATENT-APPL-SN-30498 ..... c 37 N74-21063 *
US-PATENT-APPL-SN-305012 ..... c 35 N74-15094 *
US-PATENT-APPL-SN-305013 ..... c 14 N73-13435 * #
US-PATENT-APPL-SN-305020 ..... c 21 N70-34295 *
US-PATENT-APPL-SN-305638 ..... c 34 N74-23066 *
US-PATENT-APPL-SN-305639 ..... c 37 N74-27904 *
US-PATENT-APPL-SN-305675 ..... c 33 N91-31529 *
US-PATENT-APPL-SN-306652 ..... c 33 N74-32712 *
US-PATENT-APPL-SN-307269 ..... c 24 N71-10560 *
US-PATENT-APPL-SN-307270 ..... c 10 N71-16030 *
US-PATENT-APPL-SN-307271 ..... c 09 N71-22999 *
US-PATENT-APPL-SN-307714 ..... c 03 N76-32140 *
US-PATENT-APPL-SN-307727 ..... c 32 N74-20813 *
US-PATENT-APPL-SN-307728 ..... c 34 N74-27861 *
US-PATENT-APPL-SN-307729 ..... c 31 N74-27900 *
US-PATENT-APPL-SN-308007 ..... c 44 N83-34448 *
US-PATENT-APPL-SN-308009 ..... c 33 N83-36355 *
US-PATENT-APPL-SN-308201 ..... c 27 N83-28240 *
US-PATENT-APPL-SN-308201 ..... c 27 N85-21349 *
US-PATENT-APPL-SN-308203 ..... c 34 N84-12406 *
US-PATENT-APPL-SN-308204 ..... c 44 N83-28574 *
US-PATENT-APPL-SN-308918 ..... c 27 N71-15634 *
US-PATENT-APPL-SN-309291 ..... c 37 N88-23982 *
US-PATENT-APPL-SN-309292 ..... c 37 N84-28085 *
US-PATENT-APPL-SN-309293 ..... c 25 N83-13187 *
US-PATENT-APPL-SN-309354 ..... c 11 N71-15926 *
US-PATENT-APPL-SN-310034 ..... c 32 N74-30524 *
US-PATENT-APPL-SN-310193 ..... c 33 N74-27682 *
US-PATENT-APPL-SN-310506 ..... c 10 N71-16042 *
US-PATENT-APPL-SN-310507 ..... c 07 N71-11298 *
US-PATENT-APPL-SN-310615 ..... c 37 N74-27901 *
US-PATENT-APPL-SN-310616 ..... c 35 N74-21017 *
US-PATENT-APPL-SN-310624 ..... c 33 N74-17929 *
US-PATENT-APPL-SN-310714 ..... c 33 N82-11360 * #
US-PATENT-APPL-SN-310992 ..... c 74 N91-26918 *
US-PATENT-APPL-SN-311024 ..... c 60 N91-31810 *
US-PATENT-APPL-SN-311175 ..... c 52 N74-22771 *
US-PATENT-APPL-SN-311234 ..... c 35 N74-23040 *
US-PATENT-APPL-SN-311376 ..... c 76 N92-21499 *
US-PATENT-APPL-SN-311387 ..... c 23 N71-30027 *
US-PATENT-APPL-SN-311551 ..... c 23 N91-14418 *
US-PATENT-APPL-SN-311552 ..... c 33 N92-16196 *
US-PATENT-APPL-SN-312269 ..... c 28 N71-14043 *
US-PATENT-APPL-SN-31242 ..... c 28 N70-33374 *
US-PATENT-APPL-SN-312443 ..... c 10 N71-21473 *
US-PATENT-APPL-SN-313132 ..... c 28 N70-34175 *
US-PATENT-APPL-SN-313135 ..... c 15 N70-35087 *
US-PATENT-APPL-SN-313136 ..... c 09 N71-12540 *
US-PATENT-APPL-SN-313381 ..... c 35 N74-15091 *
US-PATENT-APPL-SN-313839 ..... c 37 N90-21390 *
US-PATENT-APPL-SN-314074 ..... c 15 N71-16079 *
US-PATENT-APPL-SN-314570 ..... c 10 N71-28960 *
US-PATENT-APPL-SN-314572 ..... c 14 N71-15992 *
US-PATENT-APPL-SN-314656 ..... c 51 N77-25769 *
US-PATENT-APPL-SN-314702 ..... c 71 N84-16940 *
US-PATENT-APPL-SN-314928 ..... c 32 N84-34651 *
US-PATENT-APPL-SN-314929 ..... c 71 N83-32515 *
US-PATENT-APPL-SN-315048 ..... c 34 N74-27730 *
US-PATENT-APPL-SN-315069 ..... c 33 N74-20862 *
US-PATENT-APPL-SN-315070 ..... c 60 N76-23850 *
US-PATENT-APPL-SN-315096 ..... c 12 N70-40124 *
US-PATENT-APPL-SN-3151 ..... c 05 N72-27102 *
US-PATENT-APPL-SN-315278 ..... c 51 N83-28849 *
US-PATENT-APPL-SN-315583 ..... c 35 N84-33769 *
US-PATENT-APPL-SN-315584 ..... c 23 N84-16255 *
US-PATENT-APPL-SN-315587 ..... c 25 N83-31743 *
US-PATENT-APPL-SN-315588 ..... c 05 N84-22551 *
US-PATENT-APPL-SN-316477 ..... c 18 N71-10772 *
US-PATENT-APPL-SN-316618 ..... c 07 N74-15453 *
US-PATENT-APPL-SN-31702 ..... c 16 N73-16536 *
US-PATENT-APPL-SN-31703 ..... c 09 N72-21244 *
US-PATENT-APPL-SN-317310 ..... c 36 N77-25502 *
US-PATENT-APPL-SN-317389 ..... c 18 N70-41583 *
US-PATENT-APPL-SN-317391 ..... c 15 N71-15968 *
US-PATENT-APPL-SN-317567 ..... c 36 N75-15029 *
US-PATENT-APPL-SN-317658 ..... c 36 N84-16542 *
US-PATENT-APPL-SN-317776 ..... c 51 N92-34229 *
US-PATENT-APPL-SN-317776 ..... c 51 N92-34231 *
US-PATENT-APPL-SN-317931 ..... c 51 N92-34229 *
US-PATENT-APPL-SN-317977 ..... c 25 N83-36118 *
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US-PATENT-APPL-SN-318152 ..... c 52 N74-20728 *
US-PATENT-APPL-SN-318217 ..... c 35 N91-13694 *
US-PATENT-APPL-SN-318357 ..... c 35 N74-21019 *
US-PATENT-APPL-SN-318358 ..... c 27 N74-27037 *
US-PATENT-APPL-SN-318443 ..... c 03 N70-34667 *
US-PATENT-APPL-SN-318848 ..... c 35 N77-14408 *
US-PATENT-APPL-SN-31885 ..... c 10 N72-17172 *
US-PATENT-APPL-SN-318981 ..... c 33 N92-16197 *
US-PATENT-APPL-SN-319150 ..... c 33 N75-19519 *
US-PATENT-APPL-SN-319410 ..... c 37 N74-20063 *
US-PATENT-APPL-SN-319892 ..... c 07 N71-10609 *
US-PATENT-APPL-SN-319893 ..... c 14 N70-41647 *
US-PATENT-APPL-SN-319894 ..... c 03 N71-11053 *
US-PATENT-APPL-SN-319905 ..... c 14 N71-10781 *
US-PATENT-APPL-SN-320233 ..... c 33 N71-15625 *
US-PATENT-APPL-SN-320595 ..... c 26 N70-40015 *
US-PATENT-APPL-SN-320621 ..... c 27 N83-34040 *
US-PATENT-APPL-SN-321179 ..... c 27 N74-21156 *
US-PATENT-APPL-SN-321180 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-321656 ..... c 14 N70-41807 *
US-PATENT-APPL-SN-322312 ..... c 25 N84-22709 *
US-PATENT-APPL-SN-322314 ..... c 35 N84-12443 *
US-PATENT-APPL-SN-322316 ..... c 31 N83-19947 *
US-PATENT-APPL-SN-322317 ..... c 46 N85-21846 *
US-PATENT-APPL-SN-322321 ..... c 37 N85-21651 *
US-PATENT-APPL-SN-322545 ..... c 14 N71-10774 *
US-PATENT-APPL-SN-322565 ..... c 37 N75-27376 *
US-PATENT-APPL-SN-322997 ..... c 37 N75-15992 *
US-PATENT-APPL-SN-322997 ..... c 24 N79-25143 *
US-PATENT-APPL-SN-322998 ..... c 35 N74-32877 *
US-PATENT-APPL-SN-323182 ..... c 03 N70-41864 *
US-PATENT-APPL-SN-323236 ..... c 24 N90-21822 *
US-PATENT-APPL-SN-323748 ..... c 61 N90-16411 * #
US-PATENT-APPL-SN-323748 ..... c 61 N93-18855 *
US-PATENT-APPL-SN-324029 ..... c 32 N74-27612 *
US-PATENT-APPL-SN-32496 ..... c 15 N70-37925 *
US-PATENT-APPL-SN-325082 ..... c 35 N83-29652 *
US-PATENT-APPL-SN-325083 ..... c 33 N84-16456 *
US-PATENT-APPL-SN-325784 ..... c 24 N76-14204 *
US-PATENT-APPL-SN-325885 ..... c 35 N82-25484 * #
US-PATENT-APPL-SN-325886 ..... c 33 N83-34190 *
US-PATENT-APPL-SN-325931 ..... c 37 N82-26674 * #
US-PATENT-APPL-SN-325932 ..... c 33 N84-16455 *
US-PATENT-APPL-SN-325933 ..... c 76 N83-20789 *
US-PATENT-APPL-SN-326198 ..... c 35 N75-12272 *
US-PATENT-APPL-SN-326298 ..... c 14 N71-22765 *
US-PATENT-APPL-SN-326299 ..... c 26 N71-17818 *
US-PATENT-APPL-SN-326326 ..... c 35 N74-32879 *
US-PATENT-APPL-SN-326327 ..... c 44 N74-27519 *
US-PATENT-APPL-SN-326364 ..... c 51 N75-13502 *
US-PATENT-APPL-SN-32664 ..... c 11 N72-25287 *
US-PATENT-APPL-SN-32665 ..... c 14 N72-22444 *
US-PATENT-APPL-SN-326756 ..... c 71 N91-14808 *
US-PATENT-APPL-SN-326757 ..... c 24 N90-23493 *
US-PATENT-APPL-SN-326757 ..... c 24 N91-17145 *
US-PATENT-APPL-SN-326766 ..... c 35 N90-22024 *
US-PATENT-APPL-SN-326820 ..... c 35 N91-17350 *
US-PATENT-APPL-SN-326863 ..... c 37 N91-17387 *
US-PATENT-APPL-SN-327163 ..... c 03 N71-20895 *
US-PATENT-APPL-SN-327565 ..... c 02 N70-36825 *
US-PATENT-APPL-SN-327921 ..... c 54 N75-13531 *
US-PATENT-APPL-SN-327969 ..... c 35 N75-13213 *
US-PATENT-APPL-SN-328140 ..... c 18 N71-21651 *
US-PATENT-APPL-SN-328392 ..... c 27 N90-23545 *
US-PATENT-APPL-SN-328392 ..... c 23 N91-14419 *
US-PATENT-APPL-SN-328760 ..... c 31 N83-35177 *
US-PATENT-APPL-SN-328792 ..... c 35 N75-12273 *
US-PATENT-APPL-SN-329237 ..... c 33 N74-34638 *
US-PATENT-APPL-SN-329243 ..... c 28 N74-33209 *
US-PATENT-APPL-SN-329331 ..... c 15 N71-15906 *
US-PATENT-APPL-SN-329595 ..... c 05 N70-41329 *
US-PATENT-APPL-SN-329958 ..... c 33 N74-22885 *
US-PATENT-APPL-SN-330209 ..... c 15 N70-41646 *
US-PATENT-APPL-SN-330210 ..... c 14 N71-21090 *
US-PATENT-APPL-SN-331119 ..... c 37 N92-29151 *
US-PATENT-APPL-SN-331323 ..... c 07 N71-16088 *
US-PATENT-APPL-SN-331324 ..... c 05 N70-35152 *
US-PATENT-APPL-SN-331551 ..... c 60 N92-16563 *

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US-PATENT-APPL-SN-331759 ..... c 07 N76-18117 *
US-PATENT-APPL-SN-331760 ..... c 35 N74-27860 *
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US-PATENT-APPL-SN-332313 ..... c 21 N71-10678 *
US-PATENT-APPL-SN-332339 ..... c 07 N71-11284 *
US-PATENT-APPL-SN-332677 ..... c 33 N90-21951 *
US-PATENT-APPL-SN-333535 ..... c 74 N83-36898 *
US-PATENT-APPL-SN-333537 ..... c 44 N83-32176 *
US-PATENT-APPL-SN-333766 ..... c 31 N71-15663 *
US-PATENT-APPL-SN-333770 ..... c 21 N71-15583 *
US-PATENT-APPL-SN-333912 ..... c 32 N74-19790 *
US-PATENT-APPL-SN-33398 ..... c 14 N70-35587 * #
US-PATENT-APPL-SN-334349 ..... c 35 N75-19611 *
US-PATENT-APPL-SN-334672 ..... c 14 N70-41330 *
US-PATENT-APPL-SN-334678 ..... c 11 N71-10777 *
US-PATENT-APPL-SN-335036 ..... c 45 N84-12654 *
US-PATENT-APPL-SN-335201 ..... c 33 N74-17927 *
US-PATENT-APPL-SN-33535 ..... c 06 N72-17093 *
US-PATENT-APPL-SN-335441 ..... c 14 N71-23268 *
US-PATENT-APPL-SN-336103 ..... c 16 N71-15550 *
US-PATENT-APPL-SN-336319 ..... c 44 N74-33379 *
US-PATENT-APPL-SN-336320 ..... c 15 N71-15966 *
US-PATENT-APPL-SN-336607 ..... c 10 N71-15910 *
US-PATENT-APPL-SN-336608 ..... c 32 N71-17645 *
US-PATENT-APPL-SN-337487 ..... c 33 N74-26977 *
US-PATENT-APPL-SN-337767 ..... c 31 N90-23587 *
US-PATENT-APPL-SN-337768 ..... c 74 N92-29158 *
US-PATENT-APPL-SN-337816 ..... c 35 N75-15931 *
US-PATENT-APPL-SN-338379 ..... c 76 N91-21911 *
US-PATENT-APPL-SN-338386 ..... c 15 N84-16231 *
US-PATENT-APPL-SN-338484 ..... c 32 N74-20811 *
US-PATENT-APPL-SN-339040 ..... c 31 N70-41373 *
US-PATENT-APPL-SN-339806 ..... c 07 N74-27490 *
US-PATENT-APPL-SN-339821 ..... c 17 N70-33288 *
US-PATENT-APPL-SN-339825 ..... c 28 N71-15660 *
US-PATENT-APPL-SN-340113 ..... c 16 N70-41578 *
US-PATENT-APPL-SN-340791 ..... c 35 N74-26945 *
US-PATENT-APPL-SN-340862 ..... c 33 N77-26387 *
US-PATENT-APPL-SN-340863 ..... c 25 N76-27383 *
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US-PATENT-APPL-SN-340871 ..... c 44 N74-19870 *
US-PATENT-APPL-SN-341406 ..... c 71 N83-35781 *
US-PATENT-APPL-SN-341467 ..... c 15 N70-39924 *
US-PATENT-APPL-SN-341621 ..... c 54 N74-20725 *
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US-PATENT-APPL-SN-3417 ..... c 15 N72-22490 *
US-PATENT-APPL-SN-3418 ..... c 15 N72-20446 *
US-PATENT-APPL-SN-3418 ..... c 15 N73-19457 *
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US-PATENT-APPL-SN-342574 ..... c 03 N71-20904 *
US-PATENT-APPL-SN-342828 ..... c 74 N85-29749 *
US-PATENT-APPL-SN-342857 ..... c 72 N84-28575 *
US-PATENT-APPL-SN-342871 ..... c 27 N84-33589 *
US-PATENT-APPL-SN-343308 ..... c 19 N74-29410 *
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US-PATENT-APPL-SN-343607 ..... c 18 N74-27397 *
US-PATENT-APPL-SN-343652 ..... c 33 N91-14537 *
US-PATENT-APPL-SN-343656 ..... c 76 N91-14872 *
US-PATENT-APPL-SN-343760 ..... c 07 N71-28979 *
US-PATENT-APPL-SN-344410 ..... c 07 N74-33218 *
US-PATENT-APPL-SN-344793 ..... c 03 N71-11058 *
US-PATENT-APPL-SN-344872 ..... c 18 N91-27201 *
US-PATENT-APPL-SN-344877 ..... c 24 N90-15148 * #
US-PATENT-APPL-SN-345372 ..... c 33 N74-22814 *
US-PATENT-APPL-SN-346356 ..... c 14 N70-41676 *
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US-PATENT-APPL-SN-346372 ..... c 35 N75-12270 *
US-PATENT-APPL-SN-346483 ..... c 37 N74-32921 *
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US-PATENT-APPL-SN-347960 ..... c 03 N70-39930 *
US-PATENT-APPL-SN-348223 ..... c 34 N91-31596 *
US-PATENT-APPL-SN-348422 ..... c 27 N76-15311 *
US-PATENT-APPL-SN-348600 ..... c 28 N71-29154 *
US-PATENT-APPL-SN-348787 ..... c 33 N75-19521 *
US-PATENT-APPL-SN-349778 ..... c 09 N70-40234 *
US-PATENT-APPL-SN-349781 ..... c 31 N71-15647 *
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US-PATENT-APPL-SN-350249 ..... c 36 N75-15028 *
US-PATENT-APPL-SN-350250 ..... c 27 N75-27160 *
US-PATENT-APPL-SN-350300 ..... c 31 N74-32920 *
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US-PATENT-APPL-SN-350472 ..... c 33 N84-14424 *
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US-PATENT-APPL-SN-350474 ..... c 35 N84-22928 *
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US-PATENT-APPL-SN-350477 ..... c 35 N84-33765 *
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US-PATENT-APPL-SN-351259 ..... c 15 N71-10672 *
US-PATENT-APPL-SN-351929 ..... c 33 N75-14957 *
US-PATENT-APPL-SN-351950 ..... c 33 N75-27249 *
US-PATENT-APPL-SN-352381 ..... c 20 N75-18310 *
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US-PATENT-APPL-SN-352382 ..... c 60 N75-13539 *
US-PATENT-APPL-SN-352383 ..... c 35 N75-16783 *
US-PATENT-APPL-SN-352400 ..... c 26 N71-10607 *
US-PATENT-APPL-SN-352821 ..... c 44 N84-28205 *
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US-PATENT-APPL-SN-352831 ..... c 35 N84-16523 *
US-PATENT-APPL-SN-353162 ..... c 33 N75-26243 *
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US-PATENT-APPL-SN-353644 ..... c 07 N71-23098 *
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US-PATENT-APPL-SN-361216 ..... c 35 N84-28016 *
US-PATENT-APPL-SN-361217 ..... c 71 N85-22104 *
US-PATENT-APPL-SN-361471 ..... c 27 N92-34160 *
US-PATENT-APPL-SN-361479 ..... c 14 N91-21175 *
US-PATENT-APPL-SN-361531 ..... c 35 N89-28795 * #
US-PATENT-APPL-SN-361666 ..... c 33 N75-30428 *
US-PATENT-APPL-SN-361711 ..... c 24 N82-26387 * #
US-PATENT-APPL-SN-361711 ..... c 24 N84-16262 *
US-PATENT-APPL-SN-361906 ..... c 33 N74-20861 *
US-PATENT-APPL-SN-361907 ..... c 35 N74-27865 *
US-PATENT-APPL-SN-362145 ..... c 32 N75-26194 *
US-PATENT-APPL-SN-362146 ..... c 33 N75-18479 *
US-PATENT-APPL-SN-362261 ..... c 14 N73-32325 *
US-PATENT-APPL-SN-362278 ..... c 37 N78-17385 *
US-PATENT-APPL-SN-363130 ..... c 25 N81-19244 *
US-PATENT-APPL-SN-363348 ..... c 05 N70-41581 *
US-PATENT-APPL-SN-363653 ..... c 07 N70-41331 *
US-PATENT-APPL-SN-363654 ..... c 07 N70-41372 *
US-PATENT-APPL-SN-363691 ..... c 20 N76-14190 *
US-PATENT-APPL-SN-363807 ..... c 35 N91-27522 *
US-PATENT-APPL-SN-363815 ..... c 33 N91-21434 *
US-PATENT-APPL-SN-364041 ..... c 76 N85-30923 *
US-PATENT-APPL-SN-364072 ..... c 70 N84-28565 *
US-PATENT-APPL-SN-364092 ..... c 76 N83-35888 *
US-PATENT-APPL-SN-364093 ..... c 37 N83-34323 *
US-PATENT-APPL-SN-364094 ..... c 37 N84-28083 *
US-PATENT-APPL-SN-364097 ..... c 71 N82-27086 * #
US-PATENT-APPL-SN-364126 ..... c 36 N84-22943 *
US-PATENT-APPL-SN-364743 ..... c 37 N91-14608 *
US-PATENT-APPL-SN-364774 ..... c 37 N91-14616 *
US-PATENT-APPL-SN-364867 ..... c 09 N71-10673 *
US-PATENT-APPL-SN-365244 ..... c 37 N78-17386 *
US-PATENT-APPL-SN-36531 ..... c 07 N72-25174 *
US-PATENT-APPL-SN-36534 ..... c 21 N73-14692 *
US-PATENT-APPL-SN-3654 ..... c 35 N77-27367 *
US-PATENT-APPL-SN-365644 ..... c 35 N74-26946 *
US-PATENT-APPL-SN-365950 ..... c 27 N83-18908 *
US-PATENT-APPL-SN-366025 ..... c 27 N84-22744 *
US-PATENT-APPL-SN-366103 ..... c 76 N84-35112 * #
US-PATENT-APPL-SN-366205 ..... c 35 N91-14590 *
US-PATENT-APPL-SN-366226 ..... c 10 N71-16057 *
US-PATENT-APPL-SN-366957 ..... c 27 N90-10261 * #
US-PATENT-APPL-SN-367132 ..... c 32 N85-21427 *
US-PATENT-APPL-SN-367134 ..... c 44 N83-34449 *
US-PATENT-APPL-SN-367136 ..... c 35 N85-21596 *
US-PATENT-APPL-SN-367187 ..... c 04 N84-14132 *
US-PATENT-APPL-SN-367268 ..... c 05 N75-25914 *
US-PATENT-APPL-SN-367293 ..... c 36 N75-19655 *
US-PATENT-APPL-SN-367294 ..... c 76 N75-12810 *
US-PATENT-APPL-SN-367606 ..... c 75 N75-13625 *
US-PATENT-APPL-SN-367606 ..... c 75 N76-17951 *
US-PATENT-APPL-SN-368123 ..... c 09 N71-10618 *
US-PATENT-APPL-SN-368187 ..... c 54 N84-11758 *
US-PATENT-APPL-SN-368188 ..... c 33 N84-33663 *
US-PATENT-APPL-SN-368189 ..... c 18 N84-22605 *
US-PATENT-APPL-SN-36819 ..... c 23 N72-22673 *
US-PATENT-APPL-SN-369171 ..... c 36 N93-18287 *
US-PATENT-APPL-SN-36926 ..... c 28 N72-23810 *
US-PATENT-APPL-SN-369334 ..... c 21 N71-22880 *
US-PATENT-APPL-SN-369336 ..... c 09 N71-10659 *
US-PATENT-APPL-SN-369337 ..... c 15 N70-41811 *
US-PATENT-APPL-SN-369338 ..... c 08 N71-28925 *
US-PATENT-APPL-SN-369403 ..... c 35 N91-14588 *
US-PATENT-APPL-SN-369490 ..... c 19 N91-14412 *
US-PATENT-APPL-SN-369640 ..... c 32 N70-41370 *
US-PATENT-APPL-SN-3696 ..... c 10 N72-20224 *
US-PATENT-APPL-SN-370134 ..... c 30 N70-40353 *
US-PATENT-APPL-SN-370135 ..... c 11 N70-41677 *
US-PATENT-APPL-SN-370255 ..... c 33 N75-18477 *
US-PATENT-APPL-SN-370271 ..... c 32 N75-24981 *
US-PATENT-APPL-SN-37050 ..... c 33 N74-26732 *
US-PATENT-APPL-SN-370582 ..... c 18 N76-14186 *
US-PATENT-APPL-SN-370872 ..... c 37 N74-32918 *
US-PATENT-APPL-SN-370989 ..... c 23 N71-29049 *
US-PATENT-APPL-SN-370999 ..... c 74 N78-15879 *
US-PATENT-APPL-SN-371322 ..... c 44 N76-14600 *
US-PATENT-APPL-SN-371351 ..... c 76 N84-35113 *
US-PATENT-APPL-SN-371352 ..... c 52 N84-11744 *
US-PATENT-APPL-SN-371856 ..... c 15 N70-42033 *
US-PATENT-APPL-SN-371857 ..... c 07 N70-41680 *
US-PATENT-APPL-SN-372148 ..... c 35 N74-26949 *
US-PATENT-APPL-SN-372149 ..... c 37 N75-15050 *
US-PATENT-APPL-SN-372279 ..... c 35 N84-28019 *
US-PATENT-APPL-SN-372438 ..... c 30 N71-17788 *
US-PATENT-APPL-SN-372648 ..... c 27 N71-16348 *
US-PATENT-APPL-SN-372727 ..... c 31 N70-36845 *
US-PATENT-APPL-SN-372730 ..... c 28 N71-28850 *
US-PATENT-APPL-SN-373587 ..... c 33 N74-32711 *
US-PATENT-APPL-SN-373588 ..... c 33 N75-19515 *
US-PATENT-APPL-SN-373591 ..... c 31 N71-15692 *
US-PATENT-APPL-SN-373770 ..... c 35 N84-34705 *
US-PATENT-APPL-SN-373771 ..... c 35 N84-22934 *
US-PATENT-APPL-SN-373839 ..... c 33 N84-22887 *
US-PATENT-APPL-SN-374421 ..... c 27 N76-24405 *
US-PATENT-APPL-SN-374422 ..... c 32 N75-24982 *
US-PATENT-APPL-SN-374423 ..... c 36 N75-31427 *
US-PATENT-APPL-SN-374424 ..... c 74 N75-12732 *
US-PATENT-APPL-SN-374441 ..... c 35 N75-19616 *
US-PATENT-APPL-SN-374583 ..... c 33 N74-29556 *
US-PATENT-APPL-SN-374810 ..... c 27 N80-32514 *
US-PATENT-APPL-SN-375401 ..... c 17 N71-16025 *
US-PATENT-APPL-SN-375405 ..... c 31 N71-15675 *
US-PATENT-APPL-SN-375620 ..... c 43 N85-21723 *
US-PATENT-APPL-SN-375674 ..... c 28 N70-41582 *
US-PATENT-APPL-SN-375680 ..... c 10 N71-28739 *
US-PATENT-APPL-SN-375682 ..... c 31 N70-41588 *
US-PATENT-APPL-SN-375684 ..... c 44 N85-21769 *
US-PATENT-APPL-SN-375784 ..... c 24 N85-21266 *
US-PATENT-APPL-SN-375784 ..... c 24 N85-35233 *
US-PATENT-APPL-SN-376306 ..... c 25 N84-12262 *
US-PATENT-APPL-SN-376487 ..... c 25 N89-28603 * #
US-PATENT-APPL-SN-376487 ..... c 25 N92-28728 *
US-PATENT-APPL-SN-376488 ..... c 75 N91-25875 *
US-PATENT-APPL-SN-376738 ..... c 35 N92-21723 *
US-PATENT-APPL-SN-377146 ..... c 14 N71-23041 *
US-PATENT-APPL-SN-377777 ..... c 32 N70-42003 *
US-PATENT-APPL-SN-377780 ..... c 11 N71-10604 *
US-PATENT-APPL-SN-377784 ..... c 28 N70-41311 *

US-PATENT-APPL-SN-377891 ..... c 52 N84-34913 *
US-PATENT-APPL-SN-377892 ..... c 33 N83-24763 *
US-PATENT-APPL-SN-378080 ..... c 12 N71-24692 *
US-PATENT-APPL-SN-378126 ..... c 44 N76-18643 *
US-PATENT-APPL-SN-378127 ..... c 44 N76-18641 *
US-PATENT-APPL-SN-378533 ..... c 37 N84-11497 *
US-PATENT-APPL-SN-378535 ..... c 74 N84-23248 *
US-PATENT-APPL-SN-378548 ..... c 54 N91-31803 * #
US-PATENT-APPL-SN-379019 ..... c 09 N75-12969 *
US-PATENT-APPL-SN-379049 ..... c 31 N75-13111 *
US-PATENT-APPL-SN-379072 ..... c 15 N71-16078 *
US-PATENT-APPL-SN-379417 ..... c 02 N70-41863 *
US-PATENT-APPL-SN-379601 ..... c 71 N85-30765 *
US-PATENT-APPL-SN-379602 ..... c 44 N84-23018 *
US-PATENT-APPL-SN-379768 ..... c 28 N71-10780 *
US-PATENT-APPL-SN-379771 ..... c 33 N71-28852 *
US-PATENT-APPL-SN-380046 ..... c 25 N76-29379 *
US-PATENT-APPL-SN-380630 ..... c 37 N75-21631 *
US-PATENT-APPL-SN-380960 ..... c 15 N70-41993 *
US-PATENT-APPL-SN-380965 ..... c 10 N71-23033 *
US-PATENT-APPL-SN-381239 ..... c 09 N91-21157 *
US-PATENT-APPL-SN-381240 ..... c 27 N91-25296 *
US-PATENT-APPL-SN-381940 ..... c 09 N71-20705 *
US-PATENT-APPL-SN-382261 ..... c 35 N76-14430 *
US-PATENT-APPL-SN-382262 ..... c 37 N74-21058 *
US-PATENT-APPL-SN-38262 ..... c 28 N70-35422 * #
US-PATENT-APPL-SN-382885 ..... c 14 N91-27175 *
US-PATENT-APPL-SN-382976 ..... c 15 N71-21179 *
US-PATENT-APPL-SN-383063 ..... c 37 N84-12493 *
US-PATENT-APPL-SN-383068 ..... c 44 N84-34792 *
US-PATENT-APPL-SN-383083 ..... c 33 N84-16453 *
US-PATENT-APPL-SN-383086 ..... c 36 N85-21639 *
US-PATENT-APPL-SN-383384 ..... c 06 N84-27733 *
US-PATENT-APPL-SN-384010 ..... c 10 N71-28859 *
US-PATENT-APPL-SN-384547 ..... c 36 N85-29264 *
US-PATENT-APPL-SN-384773 ..... c 15 N76-14158 *
US-PATENT-APPL-SN-384811 ..... c 15 N71-10809 *
US-PATENT-APPL-SN-385013 ..... c 35 N75-19613 *
US-PATENT-APPL-SN-385059 ..... c 33 N77-21315 *
US-PATENT-APPL-SN-385220 ..... c 36 N85-30305 *
US-PATENT-APPL-SN-385520 ..... c 14 N71-23037 *
US-PATENT-APPL-SN-385522 ..... c 34 N75-33342 *
US-PATENT-APPL-SN-385526 ..... c 12 N71-16031 *
US-PATENT-APPL-SN-385527 ..... c 31 N71-17729 *
US-PATENT-APPL-SN-385530 ..... c 09 N71-10798 *
US-PATENT-APPL-SN-386172 ..... c 24 N91-14430 *
US-PATENT-APPL-SN-386174 ..... c 75 N90-10717 * #
US-PATENT-APPL-SN-386175 ..... c 35 N92-31790 *
US-PATENT-APPL-SN-386467 ..... c 14 N70-40233 *
US-PATENT-APPL-SN-386789 ..... c 35 N75-12271 *
US-PATENT-APPL-SN-386790 ..... c 09 N75-12968 *
US-PATENT-APPL-SN-386793 ..... c 35 N75-25124 *
US-PATENT-APPL-SN-386800 ..... c 15 N71-21404 *
US-PATENT-APPL-SN-387094 ..... c 37 N77-19457 *
US-PATENT-APPL-SN-387095 ..... c 37 N75-33395 *
US-PATENT-APPL-SN-387266 ..... c 35 N75-27328 *
US-PATENT-APPL-SN-387332 ..... c 15 N70-33226 *
US-PATENT-APPL-SN-387342 ..... c 37 N76-18457 *
US-PATENT-APPL-SN-387646 ..... c 37 N85-30336 *
US-PATENT-APPL-SN-387647 ..... c 33 N85-34333 *
US-PATENT-APPL-SN-387648 ..... c 37 N85-21650 *
US-PATENT-APPL-SN-387649 ..... c 09 N85-19990 *
US-PATENT-APPL-SN-387728 ..... c 37 N84-28084 *
US-PATENT-APPL-SN-387928 ..... c 76 N90-17456 * #
US-PATENT-APPL-SN-387928 ..... c 76 N92-22040 *
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US-PATENT-APPL-SN-388023 ..... c 10 N70-41964 *
US-PATENT-APPL-SN-388024 ..... c 32 N71-17609 *
US-PATENT-APPL-SN-38814 ..... c 15 N72-11385 *
US-PATENT-APPL-SN-38816 ..... c 70 N74-13436 *
US-PATENT-APPL-SN-38816 ..... c 74 N78-15879 *
US-PATENT-APPL-SN-388264 ..... c 37 N91-14614 *
US-PATENT-APPL-SN-388966 ..... c 31 N70-41855 *
US-PATENT-APPL-SN-388967 ..... c 10 N71-23271 *
US-PATENT-APPL-SN-389916 ..... c 18 N75-27041 *
US-PATENT-APPL-SN-389929 ..... c 33 N75-25040 *
US-PATENT-APPL-SN-390049 ..... c 37 N76-16446 * #
US-PATENT-APPL-SN-390049 ..... c 44 N76-29700 *
US-PATENT-APPL-SN-390250 ..... c 21 N70-41856 *
US-PATENT-APPL-SN-390251 ..... c 07 N71-23026 *
US-PATENT-APPL-SN-390466 ..... c 24 N75-13032 *
US-PATENT-APPL-SN-390468 ..... c 36 N75-19652 *
US-PATENT-APPL-SN-391343 ..... c 05 N69-21473 * #
US-PATENT-APPL-SN-391692 ..... c 23 N91-14419 *
US-PATENT-APPL-SN-39185 ..... c 16 N72-25485 *
US-PATENT-APPL-SN-391896 ..... c 43 N91-32546 *
US-PATENT-APPL-SN-391911 ..... c 54 N91-14724 *
US-PATENT-APPL-SN-392092 ..... c 51 N84-28361 *
US-PATENT-APPL-SN-392093 ..... c 33 N88-23941 *
US-PATENT-APPL-SN-392094 ..... c 37 N85-29283 *
US-PATENT-APPL-SN-392096 ..... c 02 N84-11136 *
US-PATENT-APPL-SN-392103 ..... c 44 N84-28204 *
US-PATENT-APPL-SN-392104 ..... c 37 N85-20338 *
US-PATENT-APPL-SN-392165 ..... c 71 N91-27913 *
US-PATENT-APPL-SN-392166 ..... c 24 N92-18561 *
US-PATENT-APPL-SN-392174 ..... c 54 N91-26747 *
US-PATENT-APPL-SN-392228 ..... c 54 N91-14723 *
US-PATENT-APPL-SN-392235 ..... c 37 N91-21542 *
US-PATENT-APPL-SN-392239 ..... c 33 N91-14552 *
US-PATENT-APPL-SN-392823 ..... c 25 N74-33378 *
US-PATENT-APPL-SN-392944 ..... c 76 N85-29800 *
US-PATENT-APPL-SN-392965 ..... c 18 N71-22998 *
US-PATENT-APPL-SN-392969 ..... c 09 N71-23573 *
US-PATENT-APPL-SN-392970 ..... c 32 N70-41367 *
US-PATENT-APPL-SN-392973 ..... c 07 N71-23001 *
US-PATENT-APPL-SN-392992 ..... c 15 N71-23052 *
US-PATENT-APPL-SN-39342 ..... c 09 N72-25252 *
US-PATENT-APPL-SN-39343 ..... c 34 N74-18552 *
US-PATENT-APPL-SN-39344 ..... c 14 N72-25409 *
US-PATENT-APPL-SN-393451 ..... c 02 N70-42016 *
US-PATENT-APPL-SN-393456 ..... c 33 N83-16633 * #
US-PATENT-APPL-SN-393461 ..... c 31 N71-17691 *
US-PATENT-APPL-SN-393464 ..... c 23 N71-21821 *
US-PATENT-APPL-SN-393523 ..... c 12 N75-24774 *
US-PATENT-APPL-SN-393524 ..... c 60 N76-21914 *
US-PATENT-APPL-SN-393525 ..... c 31 N74-32917 *
US-PATENT-APPL-SN-393526 ..... c 77 N75-20139 *
US-PATENT-APPL-SN-393527 ..... c 15 N75-13007 *
US-PATENT-APPL-SN-393528 ..... c 36 N75-19654 *
US-PATENT-APPL-SN-393581 ..... c 54 N84-23113 *
US-PATENT-APPL-SN-393582 ..... c 37 N85-21649 *
US-PATENT-APPL-SN-393583 ..... c 27 N83-29392 * #
US-PATENT-APPL-SN-393584 ..... c 37 N85-30334 *
US-PATENT-APPL-SN-393585 ..... c 37 N82-31690 * #
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US-PATENT-APPL-SN-393588 ..... c 25 N84-16276 *
US-PATENT-APPL-SN-394149 ..... c 35 N75-25123 *
US-PATENT-APPL-SN-394206 ..... c 76 N75-25730 *
US-PATENT-APPL-SN-394207 ..... c 25 N78-27226 *
US-PATENT-APPL-SN-394280 ..... c 54 N82-29002 *
US-PATENT-APPL-SN-394343 ..... c 52 N91-14709 *
US-PATENT-APPL-SN-394638 ..... c 28 N70-34162 *
US-PATENT-APPL-SN-394898 ..... c 07 N77-28118 *
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US-PATENT-APPL-SN-395493 ..... c 37 N79-13364 *
US-PATENT-APPL-SN-395495 ..... c 54 N75-27759 *
US-PATENT-APPL-SN-395687 ..... c 37 N75-18573 *
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US-PATENT-APPL-SN-396443 ..... c 15 N71-15986 *
US-PATENT-APPL-SN-396444 ..... c 10 N71-20782 *
US-PATENT-APPL-SN-396726 ..... c 35 N91-15511 *
US-PATENT-APPL-SN-396726 ..... c 35 N91-21495 *
US-PATENT-APPL-SN-397281 ..... c 76 N83-34796 *
US-PATENT-APPL-SN-397476 ..... c 34 N75-12222 *
US-PATENT-APPL-SN-397477 ..... c 33 N75-19517 *
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US-PATENT-APPL-SN-400857 ..... c 31 N79-21225 *
US-PATENT-APPL-SN-401224 ..... c 38 N78-17396 *
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US-PATENT-APPL-SN-401920 ..... c 37 N75-25185 *
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US-PATENT-APPL-SN-403694 ..... c 54 N75-12616 *
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US-PATENT-APPL-SN-404291 ..... c 74 N91-21871 *
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US-PATENT-APPL-SN-405168 ..... c 70 N91-21824 *
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US-PATENT-APPL-SN-405341 ..... c 37 N76-15460 *
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US-PATENT-APPL-SN-407599 ..... c 14 N71-21091 *
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US-PATENT-APPL-SN-408438 ..... c 07 N71-22750 *
US-PATENT-APPL-SN-408442 ..... c 10 N71-23662 *
US-PATENT-APPL-SN-408575 ..... c 35 N83-32026 *
US-PATENT-APPL-SN-409126 ..... c 18 N71-21068 *
US-PATENT-APPL-SN-409678 ..... c 09 N84-27749 *
US-PATENT-APPL-SN-409679 ..... c 33 N82-33634 * #
US-PATENT-APPL-SN-409679 ..... c 33 N84-22884 *
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US-PATENT-APPL-SN-409990 ..... c 35 N75-27330 *
US-PATENT-APPL-SN-409991 ..... c 33 N75-13139 *
US-PATENT-APPL-SN-410325 ..... c 18 N71-23088 *
US-PATENT-APPL-SN-410326 ..... c 09 N71-21449 *
US-PATENT-APPL-SN-410330 ..... c 26 N71-23043 *
US-PATENT-APPL-SN-410331 ..... c 02 N70-41589 *
US-PATENT-APPL-SN-410332 ..... c 14 N71-23039 *
US-PATENT-APPL-SN-410572 ..... c 27 N90-15259 * #
US-PATENT-APPL-SN-410576 ..... c 24 N91-31236 *
US-PATENT-APPL-SN-411572 ..... c 35 N75-15932 *
US-PATENT-APPL-SN-411944 ..... c 15 N70-41629 *
US-PATENT-APPL-SN-411945 ..... c 18 N71-23047 *
US-PATENT-APPL-SN-411949 ..... c 27 N71-15635 *
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US-PATENT-APPL-SN-412079 ..... c 37 N75-13266 *
US-PATENT-APPL-SN-412080 ..... c 36 N75-19653 *
US-PATENT-APPL-SN-412379 ..... c 32 N77-10392 *
US-PATENT-APPL-SN-413101 ..... c 07 N86-20389 *
US-PATENT-APPL-SN-41345 ..... c 09 N72-29172 *
US-PATENT-APPL-SN-41346 ..... c 15 N72-24522 *
US-PATENT-APPL-SN-41347 ..... c 09 N72-25256 *
US-PATENT-APPL-SN-41348 ..... c 09 N72-23173 *
US-PATENT-APPL-SN-413661 ..... c 15 N71-23024 *
US-PATENT-APPL-SN-413662 ..... c 09 N70-41929 *
US-PATENT-APPL-SN-414042 ..... c 35 N79-17192 *
US-PATENT-APPL-SN-414043 ..... c 27 N76-32315 *
US-PATENT-APPL-SN-41404 ..... c 03 N73-20039 *
US-PATENT-APPL-SN-414106 ..... c 54 N84-16803 *
US-PATENT-APPL-SN-414107 ..... c 35 N84-22932 *
US-PATENT-APPL-SN-414237 ..... c 35 N85-30282 *
US-PATENT-APPL-SN-41430 ..... c 10 N72-20221 *
US-PATENT-APPL-SN-41431 ..... c 37 N77-27400 *
US-PATENT-APPL-SN-414482 ..... c 10 N71-10578 *
US-PATENT-APPL-SN-41455 ..... c 02 N70-33255 *
US-PATENT-APPL-SN-414811 ..... c 32 N92-22033 *
US-PATENT-APPL-SN-414812 ..... c 35 N90-17104 * #
US-PATENT-APPL-SN-414815 ..... c 33 N91-26438 *
US-PATENT-APPL-SN-414816 ..... c 37 N91-14617 *
US-PATENT-APPL-SN-414820 ..... c 33 N90-17010 * #
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US-PATENT-APPL-SN-415878 ..... c 08 N86-27288 *
US-PATENT-APPL-SN-415879 ..... c 37 N85-21652 *
US-PATENT-APPL-SN-415880 ..... c 27 N84-27884 *
US-PATENT-APPL-SN-415960 ..... c 37 N85-20337 *
US-PATENT-APPL-SN-416135 ..... c 32 N75-15854 *
US-PATENT-APPL-SN-416938 ..... c 11 N71-10746 *
US-PATENT-APPL-SN-416940 ..... c 21 N71-21708 *
US-PATENT-APPL-SN-416941 ..... c 31 N70-34159 *
US-PATENT-APPL-SN-416943 ..... c 14 N71-23269 *
US-PATENT-APPL-SN-416945 ..... c 10 N71-23543 *
US-PATENT-APPL-SN-416946 ..... c 28 N71-15563 *
US-PATENT-APPL-SN-417253 ..... c 11 N71-23042 *
US-PATENT-APPL-SN-418137 ..... c 16 N84-22601 *
US-PATENT-APPL-SN-418138 ..... c 16 N84-27784 *
US-PATENT-APPL-SN-418139 ..... c 24 N84-27829 *
US-PATENT-APPL-SN-418320 ..... c 03 N91-31113 *
US-PATENT-APPL-SN-418362 ..... c 14 N71-20741 *
US-PATENT-APPL-SN-418372 ..... c 27 N91-13562 * #
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US-PATENT-APPL-SN-418374 ..... c 35 N91-14591 *
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US-PATENT-APPL-SN-418612 ..... c 33 N91-14550 *
US-PATENT-APPL-SN-418931 ..... c 05 N70-42000 *
US-PATENT-APPL-SN-418933 ..... c 15 N71-23022 *
US-PATENT-APPL-SN-419319 ..... c 34 N76-17317 *

US-PATENT-APPL-SN-419554 ..... c 23 N91-25185 *
US-PATENT-APPL-SN-419747 ..... c 17 N76-21250 *
US-PATENT-APPL-SN-419748 ..... c 27 N76-14264 *
US-PATENT-APPL-SN-419831 ..... c 35 N75-21582 *
US-PATENT-APPL-SN-419831 ..... c 35 N77-17426 *
US-PATENT-APPL-SN-42022 ..... c 15 N70-35409 *
US-PATENT-APPL-SN-420245 ..... c 08 N71-22749 *
US-PATENT-APPL-SN-420250 ..... c 15 N71-23051 *
US-PATENT-APPL-SN-420424 ..... c 34 N75-26282 *
US-PATENT-APPL-SN-420466 ..... c 14 N71-23092 *
US-PATENT-APPL-SN-420813 ..... c 36 N75-32441 *
US-PATENT-APPL-SN-42088 ..... c 34 N78-17336 *
US-PATENT-APPL-SN-421702 ..... c 44 N75-32581 *
US-PATENT-APPL-SN-421702 ..... c 44 N76-23675 *
US-PATENT-APPL-SN-422092 ..... c 14 N71-22989 *
US-PATENT-APPL-SN-422095 ..... c 07 N71-10676 *
US-PATENT-APPL-SN-422096 ..... c 03 N71-29044 *
US-PATENT-APPL-SN-422097 ..... c 11 N71-21481 *
US-PATENT-APPL-SN-422098 ..... c 15 N71-22797 *
US-PATENT-APPL-SN-422099 ..... c 14 N71-22964 *
US-PATENT-APPL-SN-422726 ..... c 71 N91-27914 *
US-PATENT-APPL-SN-422864 ..... c 05 N69-21925 * #
US-PATENT-APPL-SN-422865 ..... c 31 N70-41631 *
US-PATENT-APPL-SN-422867 ..... c 15 N70-40062 *
US-PATENT-APPL-SN-422868 ..... c 15 N71-10617 *
US-PATENT-APPL-SN-422869 ..... c 14 N71-10779 *
US-PATENT-APPL-SN-423016 ..... c 36 N85-21631 *
US-PATENT-APPL-SN-423412 ..... c 08 N71-22897 *
US-PATENT-APPL-SN-424013 ..... c 34 N76-27517 *
US-PATENT-APPL-SN-424038 ..... c 24 N75-30260 *
US-PATENT-APPL-SN-424153 ..... c 15 N71-21234 *
US-PATENT-APPL-SN-424156 ..... c 02 N71-23007 *
US-PATENT-APPL-SN-424157 ..... c 28 N70-41275 *
US-PATENT-APPL-SN-425096 ..... c 05 N71-23080 *
US-PATENT-APPL-SN-425201 ..... c 04 N86-19304 *
US-PATENT-APPL-SN-425202 ..... c 74 N85-34629 *
US-PATENT-APPL-SN-425203 ..... c 35 N84-22930 *
US-PATENT-APPL-SN-425204 ..... c 32 N85-29117 *
US-PATENT-APPL-SN-425205 ..... c 35 N85-21595 *
US-PATENT-APPL-SN-425362 ..... c 15 N71-10658 *
US-PATENT-APPL-SN-425363 ..... c 09 N71-20658 *
US-PATENT-APPL-SN-425364 ..... c 33 N71-15623 *
US-PATENT-APPL-SN-425365 ..... c 32 N71-21045 *
US-PATENT-APPL-SN-425972 ..... c 03 N71-23006 *
US-PATENT-APPL-SN-426155 ..... c 33 N75-15874 *
US-PATENT-APPL-SN-426345 ..... c 25 N90-15161 * #
US-PATENT-APPL-SN-426345 ..... c 25 N91-32196 *
US-PATENT-APPL-SN-426405 ..... c 25 N75-26043 *
US-PATENT-APPL-SN-426455 ..... c 28 N71-15661 *
US-PATENT-APPL-SN-426702 ..... c 15 N70-42034 *
US-PATENT-APPL-SN-427395 ..... c 54 N75-27760 *
US-PATENT-APPL-SN-427775 ..... c 27 N76-22376 *
US-PATENT-APPL-SN-427990 ..... c 06 N71-23527 *
US-PATENT-APPL-SN-428444 ..... c 44 N76-18642 *
US-PATENT-APPL-SN-428444 ..... c 44 N76-29704 *
US-PATENT-APPL-SN-428882 ..... c 31 N70-41948 *
US-PATENT-APPL-SN-428887 ..... c 33 N71-29051 *
US-PATENT-APPL-SN-428890 ..... c 02 N70-41630 *
US-PATENT-APPL-SN-428992 ..... c 34 N77-18382 *
US-PATENT-APPL-SN-428993 ..... c 45 N75-27585 *
US-PATENT-APPL-SN-428994 ..... c 32 N75-21486 *
US-PATENT-APPL-SN-428994 ..... c 32 N76-16249 *
US-PATENT-APPL-SN-428995 ..... c 51 N75-25503 *
US-PATENT-APPL-SN-429437 ..... c 35 N75-23910 *
US-PATENT-APPL-SN-429514 ..... c 24 N93-13416 *
US-PATENT-APPL-SN-429515 ..... c 14 N92-15081 *
US-PATENT-APPL-SN-429516 ..... c 05 N92-21587 *
US-PATENT-APPL-SN-429574 ..... c 27 N91-28425 * #
US-PATENT-APPL-SN-429734 ..... c 04 N91-14321 *
US-PATENT-APPL-SN-429737 ..... c 34 N90-27071 * #
US-PATENT-APPL-SN-429739 ..... c 25 N92-33009 *
US-PATENT-APPL-SN-429932 ..... c 05 N71-20268 *
US-PATENT-APPL-SN-430192 ..... c 18 N71-27170 *
US-PATENT-APPL-SN-430226 ..... c 18 N71-29658 *
US-PATENT-APPL-SN-430470 ..... c 27 N90-26955 * #
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US-PATENT-APPL-SN-430748 ..... c 76 N79-21910 *
US-PATENT-APPL-SN-430776 ..... c 03 N70-41954 *
US-PATENT-APPL-SN-430777 ..... c 18 N71-24184 *
US-PATENT-APPL-SN-430778 ..... c 03 N71-10728 *
US-PATENT-APPL-SN-430780 ..... c 03 N71-12260 *
US-PATENT-APPL-SN-431235 ..... c 15 N71-16052 *
US-PATENT-APPL-SN-431420 ..... c 37 N85-29282 *
US-PATENT-APPL-SN-431448 ..... c 37 N84-22957 *
US-PATENT-APPL-SN-431538 ..... c 18 N91-27200 *
US-PATENT-APPL-SN-431886 ..... c 18 N84-27787 *
US-PATENT-APPL-SN-432025 ..... c 15 N71-21531 *
US-PATENT-APPL-SN-432026 ..... c 07 N71-23405 *
US-PATENT-APPL-SN-432027 ..... c 21 N70-41930 *
US-PATENT-APPL-SN-432028 ..... c 15 N71-22723 *
US-PATENT-APPL-SN-432030 ..... c 12 N71-20896 *
US-PATENT-APPL-SN-432032 ..... c 15 N69-24322 * #
US-PATENT-APPL-SN-432057 ..... c 33 N84-14423 *
US-PATENT-APPL-SN-432433 ..... c 15 N71-22705 *
US-PATENT-APPL-SN-433196 ..... c 44 N84-23019 *
US-PATENT-APPL-SN-43327 ..... c 15 N72-26371 *
US-PATENT-APPL-SN-433598 ..... c 27 N84-22747 *
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US-PATENT-APPL-SN-433863 ..... c 24 N91-17145 *
US-PATENT-APPL-SN-433881 ..... c 37 N92-10197 *
US-PATENT-APPL-SN-433968 ..... c 33 N75-25041 *
US-PATENT-APPL-SN-434084 ..... c 33 N84-27974 *
US-PATENT-APPL-SN-434085 ..... c 33 N85-29145 *
US-PATENT-APPL-SN-434087 ..... c 27 N86-19457 *
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US-PATENT-APPL-SN-434148 ..... c 31 N71-24750 *
US-PATENT-APPL-SN-434195 ..... c 27 N92-22044 *
US-PATENT-APPL-SN-434672 ..... c 34 N84-14461 *
US-PATENT-APPL-SN-434674 ..... c 34 N83-35307 *
US-PATENT-APPL-SN-435387 ..... c 10 N70-42032 *
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US-PATENT-APPL-SN-435756 ..... c 12 N71-16894 *
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US-PATENT-APPL-SN-436315 ..... c 26 N75-19408 *
US-PATENT-APPL-SN-436316 ..... c 20 N76-14191 *
US-PATENT-APPL-SN-436317 ..... c 37 N76-24575 *
US-PATENT-APPL-SN-437556 ..... c 27 N76-16230 *
US-PATENT-APPL-SN-437611 ..... c 09 N71-22796 *
US-PATENT-APPL-SN-437912 ..... c 33 N85-29142 *
US-PATENT-APPL-SN-437917 ..... c 60 N85-33701 *
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US-PATENT-APPL-SN-438147 ..... c 75 N76-14931 *
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US-PATENT-APPL-SN-438797 ..... c 14 N71-10500 *
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US-PATENT-APPL-SN-43884 ..... c 15 N72-25457 *
US-PATENT-APPL-SN-439317 ..... c 27 N92-31792 *
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US-PATENT-APPL-SN-441673 ..... c 37 N91-21541 *
US-PATENT-APPL-SN-441896 ..... c 76 N90-20896 *
US-PATENT-APPL-SN-441897 ..... c 35 N84-33768 *
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US-PATENT-APPL-SN-442835 ..... c 26 N71-29156 *
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US-PATENT-APPL-SN-443297 ..... c 33 N91-14539 *
US-PATENT-APPL-SN-443406 ..... c 25 N91-21270 *
US-PATENT-APPL-SN-443414 ..... c 27 N92-10091 *
US-PATENT-APPL-SN-443522 ..... c 33 N92-22042 *
US-PATENT-APPL-SN-443523 ..... c 20 N92-10054 *
US-PATENT-APPL-SN-443539 ..... c 32 N91-25318 *
US-PATENT-APPL-SN-444087 ..... c 02 N71-11041 * #
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US-PATENT-APPL-SN-445178 ..... c 37 N76-15461 *
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US-PATENT-APPL-SN-445398 ..... c 74 N78-15880 *
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US-PATENT-APPL-SN-446071 ..... c 25 N82-29370 *
US-PATENT-APPL-SN-446131 ..... c 14 N71-22992 *
US-PATENT-APPL-SN-446560 ..... c 12 N76-15189 *
US-PATENT-APPL-SN-446562 ..... c 36 N76-14447 *
US-PATENT-APPL-SN-446564 ..... c 35 N75-26334 *
US-PATENT-APPL-SN-446567 ..... c 34 N76-27515 *
US-PATENT-APPL-SN-446568 ..... c 37 N76-23570 *
US-PATENT-APPL-SN-446569 ..... c 77 N75-20140 *
US-PATENT-APPL-SN-447124 ..... c 35 N75-30503 *
US-PATENT-APPL-SN-447371 ..... c 27 N84-22746 *
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US-PATENT-APPL-SN-448898 ..... c 15 N70-41310 *
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US-PATENT-APPL-SN-452770 ..... c 33 N75-31332 *
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US-PATENT-APPL-SN-461073 ..... c 33 N75-26246 *
US-PATENT-APPL-SN-461477 ..... c 37 N75-19686 *
US-PATENT-APPL-SN-461724 ..... c 31 N85-21404 *
US-PATENT-APPL-SN-461765 ..... c 17 N71-23046 *
US-PATENT-APPL-SN-461788 ..... c 27 N85-21349 *
US-PATENT-APPL-SN-462341 ..... c 44 N76-31666 *
US-PATENT-APPL-SN-462424 ..... c 24 N77-19171 *
US-PATENT-APPL-SN-462497 ..... c 25 N85-21279 *
US-PATENT-APPL-SN-462508 ..... c 35 N86-19580 *
US-PATENT-APPL-SN-462705 ..... c 37 N75-19684 *
US-PATENT-APPL-SN-462762 ..... c 12 N69-21466 * #
US-PATENT-APPL-SN-462763 ..... c 14 N71-22991 *
US-PATENT-APPL-SN-462844 ..... c 33 N75-19520 *
US-PATENT-APPL-SN-462903 ..... c 37 N76-14461 *
US-PATENT-APPL-SN-463456 ..... c 37 N85-30333 *
US-PATENT-APPL-SN-463720 ..... c 62 N91-32852 *
US-PATENT-APPL-SN-463925 ..... c 74 N76-30053 *
US-PATENT-APPL-SN-464720 ..... c 32 N76-16249 *
US-PATENT-APPL-SN-464721 ..... c 37 N75-26372 *
US-PATENT-APPL-SN-464722 ..... c 35 N76-22509 *
US-PATENT-APPL-SN-464723 ..... c 33 N75-30429 *
US-PATENT-APPL-SN-464878 ..... c 10 N71-22986 *
US-PATENT-APPL-SN-464879 ..... c 14 N71-21072 *
US-PATENT-APPL-SN-464880 ..... c 33 N71-21586 *
US-PATENT-APPL-SN-464885 ..... c 15 N71-22997 *
US-PATENT-APPL-SN-465363 ..... c 52 N84-28389 *
US-PATENT-APPL-SN-465364 ..... c 44 N85-20530 *
US-PATENT-APPL-SN-465365 ..... c 43 N86-19711 *
US-PATENT-APPL-SN-465366 ..... c 27 N85-20126 *
US-PATENT-APPL-SN-465367 ..... c 27 N84-22748 *
US-PATENT-APPL-SN-465369 ..... c 76 N86-28760 *
US-PATENT-APPL-SN-465370 ..... c 52 N83-29991 * #
US-PATENT-APPL-SN-466390 ..... c 28 N71-20330 *
US-PATENT-APPL-SN-466868 ..... c 22 N71-23599 *
US-PATENT-APPL-SN-466873 ..... c 17 N71-20743 *

US-PATENT-APPL-SN-466875 ..... c 08 N71-22707 *
US-PATENT-APPL-SN-467820 ..... c 28 N71-26779 *
US-PATENT-APPL-SN-468614 ..... c 60 N77-14751 *
US-PATENT-APPL-SN-468614 ..... c 60 N77-32731 *
US-PATENT-APPL-SN-468614 ..... c 60 N78-10709 *
US-PATENT-APPL-SN-468647 ..... c 21 N71-10771 *
US-PATENT-APPL-SN-468655 ..... c 15 N69-21471 * #
US-PATENT-APPL-SN-469011 ..... c 11 N69-21540 * #
US-PATENT-APPL-SN-469012 ..... c 25 N71-20747 *
US-PATENT-APPL-SN-469013 ..... c 14 N69-27423 * #
US-PATENT-APPL-SN-469371 ..... c 05 N86-19310 *
US-PATENT-APPL-SN-469864 ..... c 37 N86-19605 *
US-PATENT-APPL-SN-469866 ..... c 27 N84-22749 *
US-PATENT-APPL-SN-470113 ..... c 17 N87-16863 *
US-PATENT-APPL-SN-470114 ..... c 25 N83-24572 * #
US-PATENT-APPL-SN-470428 ..... c 33 N76-16332 *
US-PATENT-APPL-SN-470429 ..... c 33 N75-31329 *
US-PATENT-APPL-SN-470480 ..... c 20 N92-15122 *
US-PATENT-APPL-SN-47061 ..... c 26 N72-25680 *
US-PATENT-APPL-SN-47062 ..... c 15 N72-17451 *
US-PATENT-APPL-SN-47063 ..... c 33 N72-25911 *
US-PATENT-APPL-SN-47063 ..... c 33 N73-25952 *
US-PATENT-APPL-SN-470663 ..... c 37 N91-21543 *
US-PATENT-APPL-SN-470665 ..... c 43 N91-14642 *
US-PATENT-APPL-SN-470902 ..... c 06 N71-28808 *
US-PATENT-APPL-SN-471154 ..... c 09 N73-28084 *
US-PATENT-APPL-SN-47120 ..... c 31 N70-33242 *
US-PATENT-APPL-SN-47121 ..... c 09 N70-39915 *
US-PATENT-APPL-SN-47122 ..... c 14 N70-34813 *
US-PATENT-APPL-SN-47123 ..... c 15 N70-34817 *
US-PATENT-APPL-SN-472066 ..... c 31 N70-42075 *
US-PATENT-APPL-SN-472372 ..... c 07 N71-20791 *
US-PATENT-APPL-SN-472643 ..... c 33 N79-21265 *
US-PATENT-APPL-SN-472747 ..... c 31 N71-16081 *
US-PATENT-APPL-SN-472775 ..... c 35 N75-33369 *
US-PATENT-APPL-SN-472939 ..... c 74 N92-16810 *
US-PATENT-APPL-SN-473030 ..... c 37 N90-27116 * #
US-PATENT-APPL-SN-473064 ..... c 37 N90-27112 * #
US-PATENT-APPL-SN-473065 ..... c 34 N91-21473 *
US-PATENT-APPL-SN-473242 ..... c 34 N91-25380 *
US-PATENT-APPL-SN-473498 ..... c 20 N85-21256 *
US-PATENT-APPL-SN-473499 ..... c 74 N86-21348 *
US-PATENT-APPL-SN-473535 ..... c 31 N71-15637 *
US-PATENT-APPL-SN-473537 ..... c 08 N71-15908 *
US-PATENT-APPL-SN-473827 ..... c 35 N86-32698 *
US-PATENT-APPL-SN-473973 ..... c 02 N77-10001 *
US-PATENT-APPL-SN-47440 ..... c 07 N73-20174 *
US-PATENT-APPL-SN-47441 ..... c 09 N70-34559 * #
US-PATENT-APPL-SN-47443 ..... c 09 N72-17152 *
US-PATENT-APPL-SN-474531 ..... c 31 N71-23009 *
US-PATENT-APPL-SN-474744 ..... c 35 N76-14431 *
US-PATENT-APPL-SN-474745 ..... c 37 N76-14463 *
US-PATENT-APPL-SN-474815 ..... c 33 N79-21264 *
US-PATENT-APPL-SN-475299 ..... c 31 N71-17679 *
US-PATENT-APPL-SN-475336 ..... c 54 N75-27758 *
US-PATENT-APPL-SN-475337 ... c 51 N76-29891 *
US-PATENT-APPL-SN-475338 ..... c 35 N76-15431 *
US-PATENT-APPL-SN-476244 ..... c 33 N84-22885 *
US-PATENT-APPL-SN-476759 ..... c 03 N70-42073 *
US-PATENT-APPL-SN-476761 ..... c 11 N71-10748 *
US-PATENT-APPL-SN-476763 ..... c 09 N69-21313 * #
US-PATENT-APPL-SN-477333 ..... c 28 N70-41922 *
US-PATENT-APPL-SN-478129 ..... c 25 N86-27431 *
US-PATENT-APPL-SN-478130 ..... c 74 N85-23396 *
US-PATENT-APPL-SN-478131 ..... c 26 N87-14482 *
US-PATENT-APPL-SN-478491 ..... c 14 N69-21363 * #
US-PATENT-APPL-SN-478800 ..... c 37 N76-19436 *
US-PATENT-APPL-SN-478802 ..... c 35 N75-29381 *
US-PATENT-APPL-SN-478803 ..... c 31 N76-14284 *
US-PATENT-APPL-SN-479353 ..... c 15 N71-23256 *
US-PATENT-APPL-SN-479357 ..... c 36 N77-19416 *
US-PATENT-APPL-SN-479485 ..... c 27 N92-16121 *
US-PATENT-APPL-SN-480210 ..... c 11 N71-21474 *
US-PATENT-APPL-SN-480211 ..... c 14 N71-26135 *
US-PATENT-APPL-SN-480385 ..... c 74 N92-16808 *
US-PATENT-APPL-SN-480449 ..... c 33 N92-33011 *
US-PATENT-APPL-SN-480985 ..... c 18 N91-21222 *
US-PATENT-APPL-SN-481013 ..... c 60 N92-33057 *
US-PATENT-APPL-SN-481020 ..... c 36 N83-29681 * #
US-PATENT-APPL-SN-481086 ..... c 33 N84-33660 *
US-PATENT-APPL-SN-481106 ..... c 09 N84-34448 *
US-PATENT-APPL-SN-481537 ..... c 18 N92-28750 *
US-PATENT-APPL-SN-482104 ..... c 27 N76-22377 *
US-PATENT-APPL-SN-482105 ..... c 27 N76-23426 *
US-PATENT-APPL-SN-482307 ..... c 15 N71-21060 *
US-PATENT-APPL-SN-482311 ..... c 05 N71-22748 *
US-PATENT-APPL-SN-482313 ..... c 11 N69-24321 * #
US-PATENT-APPL-SN-482670 ..... c 14 N71-21007 *
US-PATENT-APPL-SN-482952 ..... c 09 N71-28926 *
US-PATENT-APPL-SN-482953 ..... c 74 N76-18913 *
US-PATENT-APPL-SN-482967 ..... c 34 N76-18364 *
US-PATENT-APPL-SN-483301 ..... c 36 N77-26477 *
US-PATENT-APPL-SN-483817 ..... c 27 N79-21190 *
US-PATENT-APPL-SN-483850 ..... c 37 N76-14460 *
US-PATENT-APPL-SN-483851 ..... c 35 N76-15435 *
US-PATENT-APPL-SN-483852 ..... c 33 N75-30430 *
US-PATENT-APPL-SN-483857 ..... c 44 N76-14601 *
US-PATENT-APPL-SN-483858 ..... c 35 N76-18400 *
US-PATENT-APPL-SN-483885 ..... c 04 N71-23185 *
US-PATENT-APPL-SN-483886 ..... c 09 N71-22988 *
US-PATENT-APPL-SN-483891 ..... c 14 N69-39982 * #
US-PATENT-APPL-SN-484156 ..... c 11 N71-21475 *
US-PATENT-APPL-SN-484208 ..... c 35 N75-30502 *
US-PATENT-APPL-SN-484209 ..... c 35 N76-18403 *
US-PATENT-APPL-SN-484485 ..... c 01 N71-23497 *
US-PATENT-APPL-SN-484489 ..... c 10 N71-15909 *
US-PATENT-APPL-SN-484490 ..... c 24 N71-20518 *
US-PATENT-APPL-SN-484745 ..... c 35 N85-20295 *
US-PATENT-APPL-SN-484855 ..... c 09 N71-19480 *
US-PATENT-APPL-SN-485058 ..... c 06 N71-23500 *
US-PATENT-APPL-SN-485656 ..... c 28 N71-10574 *
US-PATENT-APPL-SN-485957 ..... c 25 N71-21694 *
US-PATENT-APPL-SN-485958 ..... c 15 N71-24047 *
US-PATENT-APPL-SN-485960 ..... c 15 N70-42017 *
US-PATENT-APPL-SN-48621 ..... c 20 N78-32179 *
US-PATENT-APPL-SN-486455 ..... c 35 N91-21495 *
US-PATENT-APPL-SN-486458 ..... c 37 N91-31655 *
US-PATENT-APPL-SN-486470 ..... c 44 N85-21768 *
US-PATENT-APPL-SN-486471 ..... c 33 N85-21492 *
US-PATENT-APPL-SN-486573 ..... c 10 N71-19469 *
US-PATENT-APPL-SN-486668 ..... c 24 N91-25199 *
US-PATENT-APPL-SN-486884 ..... c 15 N73-32362 *
US-PATENT-APPL-SN-487156 ..... c 44 N77-10636 *
US-PATENT-APPL-SN-487341 ..... c 14 N71-19431 *
US-PATENT-APPL-SN-487342 ..... c 09 N71-21583 *
US-PATENT-APPL-SN-487343 ..... c 03 N69-39890 * #
US-PATENT-APPL-SN-487344 ..... c 15 N69-21472 * #
US-PATENT-APPL-SN-487352 ..... c 14 N71-18699 *
US-PATENT-APPL-SN-487852 ..... c 23 N76-15268 *
US-PATENT-APPL-SN-487929 ..... c 33 N74-20859 *
US-PATENT-APPL-SN-487934 ..... c 15 N71-21530 *
US-PATENT-APPL-SN-487939 ..... c 14 N71-23040 *
US-PATENT-APPL-SN-487940 ..... c 10 N71-26434 *
US-PATENT-APPL-SN-488381 ..... c 14 N73-32321 *
US-PATENT-APPL-SN-488578 ..... c 76 N92-22035 *
US-PATENT-APPL-SN-488616 ..... c 07 N76-18117 *
US-PATENT-APPL-SN-488745 ..... c 26 N75-27127 *
US-PATENT-APPL-SN-489008 ..... c 23 N75-30256 *
US-PATENT-APPL-SN-489009 ..... c 33 N76-19339 *
US-PATENT-APPL-SN-489442 ..... c 25 N69-39884 * #
US-PATENT-APPL-SN-489675 ..... c 05 N85-29947 *
US-PATENT-APPL-SN-489997 ..... c 35 N91-13691 * #
US-PATENT-APPL-SN-491054 ..... c 14 N71-23174 *
US-PATENT-APPL-SN-491058 ..... c 09 N71-23443 *
US-PATENT-APPL-SN-491059 ..... c 09 N71-23015 *
US-PATENT-APPL-SN-491113 ..... c 35 N86-19581 *
US-PATENT-APPL-SN-491125 ..... c 27 N84-22750 *
US-PATENT-APPL-SN-491416 ..... c 35 N75-33368 *
US-PATENT-APPL-SN-491417 ..... c 37 N76-19437 *
US-PATENT-APPL-SN-491418 ..... c 31 N76-31365 *
US-PATENT-APPL-SN-491419 ..... c 32 N76-15330 *
US-PATENT-APPL-SN-491845 ..... c 28 N71-15659 *
US-PATENT-APPL-SN-492282 ..... c 27 N85-20124 *
US-PATENT-APPL-SN-492344 ..... c 05 N71-22896 *
US-PATENT-APPL-SN-492964 ..... c 25 N85-21280 *
US-PATENT-APPL-SN-493179 ..... c 23 N85-35227 *
US-PATENT-APPL-SN-493190 ..... c 43 N91-21621 *
US-PATENT-APPL-SN-493359 ..... c 20 N76-21275 *
US-PATENT-APPL-SN-493363 ..... c 33 N76-21390 *
US-PATENT-APPL-SN-493529 ..... c 51 N91-31755 *
US-PATENT-APPL-SN-493864 ..... c 23 N90-20133 *
US-PATENT-APPL-SN-493864 ..... c 23 N90-23475 *
US-PATENT-APPL-SN-493865 ..... c 24 N86-19380 *
US-PATENT-APPL-SN-493866 ..... c 71 N84-28568 *
US-PATENT-APPL-SN-493942 ..... c 14 N71-17659 *
US-PATENT-APPL-SN-493943 ..... c 15 N71-21529 *
US-PATENT-APPL-SN-494280 ..... c 28 N71-23081 *
US-PATENT-APPL-SN-494282 ..... c 15 N69-39735 * #
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US-PATENT-APPL-SN-494287 ..... c 03 N71-22974 *
US-PATENT-APPL-SN-494739 ..... c 07 N71-26291 *
US-PATENT-APPL-SN-495021 ..... c 44 N78-13526 *
US-PATENT-APPL-SN-495022 ..... c 60 N77-12721 *
US-PATENT-APPL-SN-495380 ..... c 37 N85-29285 *
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US-PATENT-APPL-SN-495381 ..... c 24 N84-22695 *
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US-PATENT-APPL-SN-496205 ..... c 14 N71-22965 *
US-PATENT-APPL-SN-496779 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-498167 ..... c 03 N71-10608 *
US-PATENT-APPL-SN-498168 ..... c 28 N71-21822 *
US-PATENT-APPL-SN-499122 ..... c 15 N71-24164 *
US-PATENT-APPL-SN-499126 ..... c 23 N86-19376 *
US-PATENT-APPL-SN-500044 ..... c 35 N85-21597 *
US-PATENT-APPL-SN-500046 ..... c 31 N87-16918 *
US-PATENT-APPL-SN-500435 ..... c 14 N71-21082 *
US-PATENT-APPL-SN-500446 ..... c 10 N71-23029 *
US-PATENT-APPL-SN-500651 ..... c 07 N85-35195 *
US-PATENT-APPL-SN-500979 ..... c 32 N76-18295 *
US-PATENT-APPL-SN-500980 ..... c 72 N76-15860 *
US-PATENT-APPL-SN-500981 ..... c 35 N77-10492 *
US-PATENT-APPL-SN-500982 ..... c 75 N76-17951 *
US-PATENT-APPL-SN-501011 ..... c 33 N76-18345 *
US-PATENT-APPL-SN-501012 ..... c 33 N76-14373 *
US-PATENT-APPL-SN-501060 ..... c 60 N84-28491 *
US-PATENT-APPL-SN-501893 ..... c 34 N91-13668 * #
US-PATENT-APPL-SN-501908 ..... c 51 N90-27239 * #
US-PATENT-APPL-SN-501909 ..... c 34 N92-28752 *
US-PATENT-APPL-SN-501910 ..... c 37 N91-14614 *
US-PATENT-APPL-SN-50206 ..... c 07 N72-17109 *
US-PATENT-APPL-SN-50207 ..... c 07 N72-20141 *
US-PATENT-APPL-SN-50208 ..... c 14 N73-13418 *
US-PATENT-APPL-SN-502124 ..... c 35 N76-16393 *
US-PATENT-APPL-SN-502135 ..... c 35 N76-15433 *
US-PATENT-APPL-SN-502136 ..... c 35 N75-27331 *
US-PATENT-APPL-SN-502137 ..... c 37 N76-21554 *
US-PATENT-APPL-SN-502138 ..... c 43 N77-10584 *
US-PATENT-APPL-SN-502693 ..... c 15 N71-20739 *
US-PATENT-APPL-SN-502701 ..... c 08 N71-23295 *
US-PATENT-APPL-SN-502709 ..... c 31 N71-21881 *
US-PATENT-APPL-SN-502710 ..... c 15 N71-23048 *
US-PATENT-APPL-SN-502729 ..... c 31 N70-41871 *
US-PATENT-APPL-SN-502739 ..... c 09 N71-23311 *
US-PATENT-APPL-SN-502740 ..... c 14 N69-27485 * #
US-PATENT-APPL-SN-502743 ..... c 08 N71-19435 *
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US-PATENT-APPL-SN-502750 ..... c 09 N71-19466 *
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US-PATENT-APPL-SN-502756 ..... c 03 N71-23336 *
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US-PATENT-APPL-SN-503408 ..... c 74 N91-13999 * #
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US-PATENT-APPL-SN-504345 ..... c 33 N85-22877 *
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US-PATENT-APPL-SN-507623 ..... c 31 N85-29083 *
US-PATENT-APPL-SN-507624 ..... c 76 N85-30922 *
US-PATENT-APPL-SN-507625 ..... c 76 N86-20150 *
US-PATENT-APPL-SN-507626 ..... c 34 N85-29179 *
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US-PATENT-APPL-SN-514407 ..... c 18 N71-22894 *
US-PATENT-APPL-SN-514546 ..... c 74 N76-20958 *
US-PATENT-APPL-SN-51473 ..... c 02 N70-33266 *
US-PATENT-APPL-SN-51477 ..... c 14 N72-25412 *
US-PATENT-APPL-SN-515484 ..... c 14 N71-22993 *
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US-PATENT-APPL-SN-516151 ..... c 15 N70-41679 *
US-PATENT-APPL-SN-516152 ..... c 14 N71-23225 *
US-PATENT-APPL-SN-516153 ..... c 10 N71-28783 *
US-PATENT-APPL-SN-516154 ..... c 09 N69-24330 * #
US-PATENT-APPL-SN-516155 ..... c 09 N71-23270 *
US-PATENT-APPL-SN-516158 ..... c 09 N71-19479 *
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US-PATENT-APPL-SN-516160 ..... c 33 N71-16277 *
US-PATENT-APPL-SN-516162 ..... c 07 N71-28900 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21350 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21351 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21352 *
US-PATENT-APPL-SN-516217 ..... c 25 N85-28982 *
US-PATENT-APPL-SN-516217 ..... c 25 N85-30039 *
US-PATENT-APPL-SN-516489 ..... c 25 N92-16043 *
US-PATENT-APPL-SN-516573 ..... c 18 N92-15114 *
US-PATENT-APPL-SN-516793 ..... c 16 N71-22895 *
US-PATENT-APPL-SN-516794 ..... c 14 N70-42074 *
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US-PATENT-APPL-SN-517100 ..... c 28 N70-33241 *
US-PATENT-APPL-SN-517114 ..... c 32 N90-27016 * #
US-PATENT-APPL-SN-517156 ..... c 14 N71-23093 *
US-PATENT-APPL-SN-517157 ..... c 15 N71-22722 *
US-PATENT-APPL-SN-517158 ..... c 14 N71-23401 *
US-PATENT-APPL-SN-517159 ..... c 15 N71-20740 *
US-PATENT-APPL-SN-517858 ..... c 14 N71-21006 *
US-PATENT-APPL-SN-517869 ..... c 15 N71-23050 *
US-PATENT-APPL-SN-517995 ..... c 39 N76-31562 *
US-PATENT-APPL-SN-518487 ..... c 05 N71-11190 *
US-PATENT-APPL-SN-518544 ..... c 44 N76-24696 *
US-PATENT-APPL-SN-518545 ..... c 19 N76-22284 *
US-PATENT-APPL-SN-518546 ..... c 26 N76-18257 *
US-PATENT-APPL-SN-518684 ..... c 44 N76-22657 *
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US-PATENT-APPL-SN-519160 ..... c 18 N71-20742 *
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US-PATENT-APPL-SN-520839 ..... c 10 N71-19472 *
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US-PATENT-APPL-SN-521601 ..... c 60 N76-14818 *
US-PATENT-APPL-SN-521602 ..... c 37 N76-18454 *
US-PATENT-APPL-SN-521603 ..... c 35 N75-29380 *
US-PATENT-APPL-SN-521620 ..... c 09 N77-10071 *
US-PATENT-APPL-SN-521753 ..... c 15 N70-41960 *
US-PATENT-APPL-SN-521754 ..... c 07 N71-22984 *
US-PATENT-APPL-SN-521755 ..... c 28 N71-28849 *
US-PATENT-APPL-SN-521816 ..... c 35 N77-19385 *
US-PATENT-APPL-SN-521817 ..... c 45 N76-21742 *
US-PATENT-APPL-SN-521994 ..... c 17 N71-23365 *
US-PATENT-APPL-SN-521996 ..... c 15 N69-27871 * #
US-PATENT-APPL-SN-521998 ..... c 07 N69-24323 * #
US-PATENT-APPL-SN-521999 ..... c 12 N71-20815 *
US-PATENT-APPL-SN-522109 ..... c 07 N78-17056 *
US-PATENT-APPL-SN-522551 ..... c 76 N76-20994 *
US-PATENT-APPL-SN-522552 ..... c 35 N76-16390 *
US-PATENT-APPL-SN-522556 ..... c 35 N76-15432 *
US-PATENT-APPL-SN-522629 ..... c 23 N90-20133 *
US-PATENT-APPL-SN-522629 ..... c 23 N90-23475 *
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US-PATENT-APPL-SN-522794 ..... c 09 N71-23190 *
US-PATENT-APPL-SN-522795 ..... c 20 N71-16281 *
US-PATENT-APPL-SN-522949 ..... c 37 N92-22036 *
US-PATENT-APPL-SN-522971 ..... c 54 N76-24900 *
US-PATENT-APPL-SN-523297 ..... c 24 N85-21266 *
US-PATENT-APPL-SN-523297 ..... c 24 N85-35233 *
US-PATENT-APPL-SN-523511 ..... c 28 N71-20942 *
US-PATENT-APPL-SN-523559 ..... c 74 N85-29750 *
US-PATENT-APPL-SN-523560 ..... c 60 N86-21154 *
US-PATENT-APPL-SN-523632 ..... c 33 N78-17293 *
US-PATENT-APPL-SN-523675 ..... c 37 N91-21545 *
US-PATENT-APPL-SN-523991 ..... c 35 N86-20751 *
US-PATENT-APPL-SN-524108 ..... c 09 N93-11057 *
US-PATENT-APPL-SN-524109 ..... c 24 N92-10070 *
US-PATENT-APPL-SN-524110 ..... c 37 N91-13729 * #
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US-PATENT-APPL-SN-526631 ..... c 10 N71-19471 *
US-PATENT-APPL-SN-526664 ..... c 07 N69-24334 * #
US-PATENT-APPL-SN-526665 ..... c 14 N69-24331 * #
US-PATENT-APPL-SN-526739 ..... c 37 N87-23970 *
US-PATENT-APPL-SN-526741 ..... c 09 N84-12193 * #
US-PATENT-APPL-SN-526750 ..... c 71 N85-22105 *
US-PATENT-APPL-SN-526768 ..... c 25 N85-35253 *
US-PATENT-APPL-SN-526770 ..... c 35 N85-21598 *
US-PATENT-APPL-SN-527331 ..... c 17 N73-28573 *
US-PATENT-APPL-SN-527462 ..... c 35 N92-33010 *
US-PATENT-APPL-SN-527508 ..... c 37 N91-32514 *
US-PATENT-APPL-SN-527509 ..... c 74 N92-22034 *
US-PATENT-APPL-SN-527613 ..... c 37 N86-19604 *
US-PATENT-APPL-SN-527727 ..... c 02 N76-16014 *
US-PATENT-APPL-SN-527728 ..... c 37 N76-18458 *
US-PATENT-APPL-SN-527790 ..... c 33 N76-14372 *
US-PATENT-APPL-SN-527914 ..... c 27 N86-21675 *
US-PATENT-APPL-SN-527918 ..... c 09 N85-21178 *
US-PATENT-APPL-SN-528031 ..... c 10 N69-39888 * #
US-PATENT-APPL-SN-528666 ..... c 27 N93-19327 *
US-PATENT-APPL-SN-528666 ..... c 27 N93-19388 *
US-PATENT-APPL-SN-529427 ..... c 54 N92-29137 *
US-PATENT-APPL-SN-529593 ..... c 27 N71-21819 *
US-PATENT-APPL-SN-529594 ..... c 15 N69-27483 * #
US-PATENT-APPL-SN-529594 ..... c 33 N71-29152 *
US-PATENT-APPL-SN-529609 ..... c 09 N69-39986 * #
US-PATENT-APPL-SN-529803 ..... c 33 N86-20668 *
US-PATENT-APPL-SN-529884 ..... c 54 N78-18761 *
US-PATENT-APPL-SN-530185 ..... c 32 N86-20647 *
US-PATENT-APPL-SN-530339 ..... c 31 N86-19479 *
US-PATENT-APPL-SN-530958 ..... c 09 N71-22985 *
US-PATENT-APPL-SN-531372 ..... c 72 N91-27936 *
US-PATENT-APPL-SN-531373 ..... c 74 N92-16811 *
US-PATENT-APPL-SN-531374 ..... c 37 N92-28754 *
US-PATENT-APPL-SN-531375 ..... c 26 N90-26940 * #
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US-PATENT-APPL-SN-531433 ..... c 35 N92-22038 *
US-PATENT-APPL-SN-531434 ..... c 34 N92-21724 *
US-PATENT-APPL-SN-531565 ..... c 36 N76-24553 *
US-PATENT-APPL-SN-53156 ..... c 10 N71-28860 *
US-PATENT-APPL-SN-531572 ..... c 66 N76-19888 *
US-PATENT-APPL-SN-531575 ..... c 32 N76-31372 *
US-PATENT-APPL-SN-531642 ..... c 25 N71-21693 *
US-PATENT-APPL-SN-531647 ..... c 04 N76-20114 *
US-PATENT-APPL-SN-531647 ..... c 04 N77-19056 *
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US-PATENT-APPL-SN-533556 ..... c 36 N76-29575 *
US-PATENT-APPL-SN-533608 ..... c 32 N76-21366 *
US-PATENT-APPL-SN-533650 ..... c 35 N75-27329 *
US-PATENT-APPL-SN-533659 ..... c 14 N73-30390 *
US-PATENT-APPL-SN-533734 ..... c 33 N77-10428 *
US-PATENT-APPL-SN-534265 ..... c 32 N76-21365 *
US-PATENT-APPL-SN-534266 ..... c 35 N76-24523 *
US-PATENT-APPL-SN-534295 ..... c 15 N71-21076 *
US-PATENT-APPL-SN-534564 ..... c 10 N71-22961 *
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US-PATENT-APPL-SN-534931 ..... c 37 N80-14395 *
US-PATENT-APPL-SN-534966 ..... c 15 N71-24042 *
US-PATENT-APPL-SN-534975 ..... c 14 N71-24232 *
US-PATENT-APPL-SN-535169 ..... c 54 N78-17678 *
US-PATENT-APPL-SN-535304 ..... c 09 N71-28810 *
US-PATENT-APPL-SN-535410 ..... c 37 N76-15457 *
US-PATENT-APPL-SN-536210 ..... c 17 N71-24830 *
US-PATENT-APPL-SN-536216 ..... c 10 N71-23315 *
US-PATENT-APPL-SN-536217 ..... c 10 N71-23544 *
US-PATENT-APPL-SN-536535 ..... c 33 N76-14371 *
US-PATENT-APPL-SN-536761 ..... c 33 N76-19338 *
US-PATENT-APPL-SN-536762 ..... c 37 N76-22540 *
US-PATENT-APPL-SN-536785 ..... c 33 N76-31409 *
US-PATENT-APPL-SN-536786 ..... c 44 N77-32581 *
US-PATENT-APPL-SN-537024 ..... c 44 N76-27664 *
US-PATENT-APPL-SN-537480 ..... c 45 N76-31714 *
US-PATENT-APPL-SN-537614 ..... c 33 N86-20672 *
US-PATENT-APPL-SN-537615 ..... c 28 N71-22983 *
US-PATENT-APPL-SN-537615 ..... c 37 N85-33489 *
US-PATENT-APPL-SN-537616 ..... c 26 N85-29005 *
US-PATENT-APPL-SN-537617 ..... c 09 N71-22987 *
US-PATENT-APPL-SN-537757 ..... c 37 N86-20789 *
US-PATENT-APPL-SN-537979 ..... c 37 N77-11397 *
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US-PATENT-APPL-SN-538063 ..... c 37 N86-19603 *
US-PATENT-APPL-SN-538166 ..... c 15 N71-21177 *
US-PATENT-APPL-SN-538168 ..... c 23 N71-16098 *
US-PATENT-APPL-SN-538863 ..... c 54 N78-17680 *
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US-PATENT-APPL-SN-538907 ..... c 33 N71-28903 *
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US-PATENT-APPL-SN-538913 ..... c 14 N71-17627 *
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US-PATENT-APPL-SN-539255 ..... c 18 N71-26153 *
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US-PATENT-APPL-SN-540414 ..... c 15 N71-22799 *
US-PATENT-APPL-SN-540779 ..... c 33 N79-12331 *
US-PATENT-APPL-SN-540976 ..... c 32 N91-13598 * #
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US-PATENT-APPL-SN-541526 ..... c 33 N87-14594 *
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US-PATENT-APPL-SN-542192 ..... c 26 N75-27126 *
US-PATENT-APPL-SN-542232 ..... c 33 N86-19516 *
US-PATENT-APPL-SN-542557 ..... c 44 N85-30474 *
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US-PATENT-APPL-SN-542713 ..... c 23 N71-23976 *
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US-PATENT-APPL-SN-542754 ..... c 34 N76-18374 *
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US-PATENT-APPL-SN-543774 ..... c 06 N69-39733 * #
US-PATENT-APPL-SN-543915 ..... c 60 N90-26518 * #
US-PATENT-APPL-SN-543926 ..... c 37 N91-27562 *
US-PATENT-APPL-SN-544293 ..... c 32 N91-13594 * #
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US-PATENT-APPL-SN-545014 ..... c 43 N90-26384 * #
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US-PATENT-APPL-SN-545229 ..... c 03 N69-21469 * #
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US-PATENT-APPL-SN-545235 ..... c 63 N91-13944 * #
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US-PATENT-APPL-SN-545284 ..... c 34 N76-27517 *
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US-PATENT-APPL-SN-561429 ..... c 27 N85-21351 *
US-PATENT-APPL-SN-561431 ..... c 27 N85-21350 *
US-PATENT-APPL-SN-561432 ..... c 20 N86-26368 *
US-PATENT-APPL-SN-561433 ..... c 35 N86-20752 *
US-PATENT-APPL-SN-561434 ..... c 25 N85-30039 *
US-PATENT-APPL-SN-561435 ..... c 27 N85-21352 *
US-PATENT-APPL-SN-561764 ..... c 32 N77-10392 *
US-PATENT-APPL-SN-561956 ..... c 35 N77-17426 *
US-PATENT-APPL-SN-562095 ..... c 52 N92-28755 *
US-PATENT-APPL-SN-562176 ..... c 35 N93-19387 *
US-PATENT-APPL-SN-562443 ..... c 09 N69-39734 * #
US-PATENT-APPL-SN-562444 ..... c 14 N71-22995 *
US-PATENT-APPL-SN-562445 ..... c 14 N71-23797 *
US-PATENT-APPL-SN-562499 ..... c 32 N77-31350 *
US-PATENT-APPL-SN-562558 ..... c 31 N79-21227 *
US-PATENT-APPL-SN-562933 ..... c 10 N71-24799 *
US-PATENT-APPL-SN-562934 ..... c 09 N69-21468 * #
US-PATENT-APPL-SN-562992 ..... c 27 N78-32261 *
US-PATENT-APPL-SN-563049 ..... c 17 N76-29347 *
US-PATENT-APPL-SN-563050 ..... c 37 N76-31524 *
US-PATENT-APPL-SN-563283 ..... c 35 N76-18401 *
US-PATENT-APPL-SN-563644 ..... c 15 N71-18613 *
US-PATENT-APPL-SN-563646 ..... c 05 N71-23096 *
US-PATENT-APPL-SN-563648 ..... c 15 N71-17803 *
US-PATENT-APPL-SN-563650 ..... c 25 N69-21929 * #
US-PATENT-APPL-SN-563651 ..... c 28 N71-23293 *
US-PATENT-APPL-SN-563890 ..... c 35 N85-34373 *
US-PATENT-APPL-SN-564622 ..... c 37 N77-31497 *
US-PATENT-APPL-SN-564919 ..... c 09 N71-23316 *
US-PATENT-APPL-SN-565090 ..... c 05 N91-31140 *
US-PATENT-APPL-SN-565162 ..... c 35 N79-14348 *
US-PATENT-APPL-SN-565289 ..... c 38 N77-17495 *
US-PATENT-APPL-SN-565290 ..... c 17 N76-22245 *
US-PATENT-APPL-SN-565481 ..... c 09 N86-32447 *
US-PATENT-APPL-SN-566392 ..... c 14 N71-23175 *
US-PATENT-APPL-SN-566397 ..... c 05 N71-23161 *
US-PATENT-APPL-SN-566493 ..... c 44 N76-29701 *
US-PATENT-APPL-SN-566494 ..... c 32 N77-30309 *
US-PATENT-APPL-SN-566495 ..... c 33 N77-17351 *
US-PATENT-APPL-SN-566717 ..... c 14 N71-24233 *
US-PATENT-APPL-SN-567025 ..... c 27 N91-13558 * #
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US-PATENT-APPL-SN-567806 ..... c 06 N71-22975 *
US-PATENT-APPL-SN-56791 ..... c 10 N72-16172 *
US-PATENT-APPL-SN-568067 ..... c 31 N71-22968 *
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US-PATENT-APPL-SN-568127 ..... c 34 N91-13658 * #
US-PATENT-APPL-SN-568128 ..... c 27 N91-13560 * #
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US-PATENT-APPL-SN-568130 ..... c 44 N92-16457 *
US-PATENT-APPL-SN-568160 ..... c 10 N71-18724 *
US-PATENT-APPL-SN-568346 ..... c 04 N69-27487 * #
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US-PATENT-APPL-SN-568354 ..... c 14 N71-22752 *
US-PATENT-APPL-SN-568355 ..... c 32 N71-23971 *
US-PATENT-APPL-SN-568356 ..... c 14 N71-15599 *
US-PATENT-APPL-SN-568362 ..... c 03 N69-39983 * #
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US-PATENT-APPL-SN-568541 ..... c 24 N77-28225 *
US-PATENT-APPL-SN-568541 ..... c 27 N81-14077 *
US-PATENT-APPL-SN-568620 ..... c 10 N71-26626 *
US-PATENT-APPL-SN-568987 ..... c 10 N71-19547 *
US-PATENT-APPL-SN-569370 ..... c 43 N84-23012 * #
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US-PATENT-APPL-SN-569925 ..... c 07 N77-17059 *
US-PATENT-APPL-SN-570093 ..... c 06 N71-17705 *
US-PATENT-APPL-SN-570095 ..... c 14 N71-23226 *
US-PATENT-APPL-SN-570097 ..... c 15 N69-23185 * #
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US-PATENT-APPL-SN-571058 ..... c 24 N91-27244 *
US-PATENT-APPL-SN-571059 ..... c 24 N91-13502 * #
US-PATENT-APPL-SN-571062 ..... c 37 N91-13732 * #
US-PATENT-APPL-SN-571344 ..... c 35 N92-10186 *
US-PATENT-APPL-SN-571458 ..... c 44 N77-10635 *
US-PATENT-APPL-SN-571459 ..... c 54 N78-14784 *
US-PATENT-APPL-SN-571613 ..... c 74 N86-20124 *
US-PATENT-APPL-SN-571614 ..... c 35 N86-20750 *
US-PATENT-APPL-SN-571615 ..... c 74 N87-14971 *
US-PATENT-APPL-SN-571616 ..... c 25 N86-19413 *
US-PATENT-APPL-SN-571617 ..... c 26 N85-35267 *
US-PATENT-APPL-SN-571687 ..... c 47 N91-15661 * #
US-PATENT-APPL-SN-571821 ..... c 20 N76-22296 *
US-PATENT-APPL-SN-57252 ..... c 14 N72-25414 *
US-PATENT-APPL-SN-57253 ..... c 18 N72-25541 *
US-PATENT-APPL-SN-572990 ..... c 37 N78-16369 *
US-PATENT-APPL-SN-572991 ..... c 51 N77-22794 *
US-PATENT-APPL-SN-573029 ..... c 07 N79-14097 *
US-PATENT-APPL-SN-573162 ..... c 37 N86-27630 *
US-PATENT-APPL-SN-573432 ..... c 14 N71-23790 *
US-PATENT-APPL-SN-57399 ..... c 03 N72-20034 *
US-PATENT-APPL-SN-574208 ..... c 37 N76-29590 *
US-PATENT-APPL-SN-574218 ..... c 52 N76-29895 *
US-PATENT-APPL-SN-574219 ..... c 35 N76-31490 *
US-PATENT-APPL-SN-574280 ..... c 15 N69-21460 * #
US-PATENT-APPL-SN-574282 ..... c 15 N69-23190 * #
US-PATENT-APPL-SN-574282 ..... c 15 N71-23025 *
US-PATENT-APPL-SN-574283 ..... c 14 N69-24257 * #
US-PATENT-APPL-SN-574284 ..... c 08 N71-19763 *
US-PATENT-APPL-SN-574290 ..... c 14 N71-20439 *
US-PATENT-APPL-SN-575291 ..... c 33 N71-29151 *
US-PATENT-APPL-SN-575475 ..... c 05 N69-23192 * #
US-PATENT-APPL-SN-575694 ..... c 76 N91-14066 * #
US-PATENT-APPL-SN-575695 ..... c 35 N92-21586 *
US-PATENT-APPL-SN-575697 ..... c 39 N91-13767 * #
US-PATENT-APPL-SN-575708 ..... c 76 N91-16815 * #
US-PATENT-APPL-SN-575736 ..... c 76 N92-25398 *
US-PATENT-APPL-SN-575737 ..... c 18 N92-33013 *
US-PATENT-APPL-SN-575930 ..... c 06 N71-23230 *
US-PATENT-APPL-SN-576182 ..... c 33 N71-24276 *
US-PATENT-APPL-SN-576183 ..... c 09 N71-23525 *
US-PATENT-APPL-SN-576195 ..... c 14 N71-21079 *
US-PATENT-APPL-SN-576308 ..... c 07 N85-35194 *
US-PATENT-APPL-SN-576488 ..... c 44 N76-28635 *
US-PATENT-APPL-SN-576521 ..... c 09 N71-20864 *
US-PATENT-APPL-SN-576774 ..... c 60 N77-19760 *
US-PATENT-APPL-SN-576792 ..... c 14 N71-26136 *
US-PATENT-APPL-SN-576797 ..... c 09 N69-24318 * #
US-PATENT-APPL-SN-577114 ..... c 15 N69-24320 * #
US-PATENT-APPL-SN-577115 ..... c 15 N71-17647 *
US-PATENT-APPL-SN-577545 ..... c 08 N71-18693 *
US-PATENT-APPL-SN-577546 ..... c 31 N71-23008 *
US-PATENT-APPL-SN-577548 ..... c 09 N69-27422 * #
US-PATENT-APPL-SN-577548 ..... c 14 N72-28438 *
US-PATENT-APPL-SN-577549 ..... c 15 N71-22721 *
US-PATENT-APPL-SN-577775 ..... c 14 N71-17574 *
US-PATENT-APPL-SN-577778 ..... c 03 N71-11050 *
US-PATENT-APPL-SN-578043 ..... c 24 N91-15333 * #
US-PATENT-APPL-SN-578240 ..... c 34 N77-18382 *
US-PATENT-APPL-SN-578241 ..... c 52 N76-29896 *
US-PATENT-APPL-SN-578387 ..... c 06 N87-22678 *
US-PATENT-APPL-SN-578388 ..... c 06 N86-27280 *
US-PATENT-APPL-SN-578390 ..... c 44 N85-30475 *
US-PATENT-APPL-SN-578397 ..... c 20 N79-21124 *
US-PATENT-APPL-SN-578700 ..... c 43 N82-13465 *
US-PATENT-APPL-SN-578916 ..... c 14 N71-23036 *
US-PATENT-APPL-SN-578923 ..... c 15 N71-21403 *
US-PATENT-APPL-SN-578925 ..... c 23 N71-16355 *
US-PATENT-APPL-SN-578926 ..... c 06 N69-39936 * #
US-PATENT-APPL-SN-578928 ..... c 26 N71-21824 *
US-PATENT-APPL-SN-578931 ..... c 23 N71-21882 *
US-PATENT-APPL-SN-578932 ..... c 08 N71-12505 *
US-PATENT-APPL-SN-579121 ..... c 15 N71-29136 *
US-PATENT-APPL-SN-579300 ..... c 20 N79-21123 *
US-PATENT-APPL-SN-579375 ..... c 07 N77-14025 *
US-PATENT-APPL-SN-579376 ..... c 20 N79-21125 *
US-PATENT-APPL-SN-579989 ..... c 34 N77-32413 *
US-PATENT-APPL-SN-580365 ..... c 15 N71-23255 *
US-PATENT-APPL-SN-580397 ..... c 37 N87-21333 *
US-PATENT-APPL-SN-580419 ..... c 34 N85-33433 *
US-PATENT-APPL-SN-580573 ..... c 44 N85-34441 *
US-PATENT-APPL-SN-580574 ..... c 18 N84-22610 * #
US-PATENT-APPL-SN-58147 ..... c 28 N70-33356 *
US-PATENT-APPL-SN-581514 ..... c 70 N75-26789 * #
US-PATENT-APPL-SN-581750 ..... c 07 N78-17055 *
US-PATENT-APPL-SN-581751 ..... c 37 N78-10468 *
US-PATENT-APPL-SN-581843 ..... c 31 N79-21226 *
US-PATENT-APPL-SN-582171 ..... c 32 N71-16428 *
US-PATENT-APPL-SN-582213 ..... c 32 N74-22096 *
US-PATENT-APPL-SN-582318 ..... c 33 N76-27472 *
US-PATENT-APPL-SN-582492 ..... c 52 N85-30618 *
US-PATENT-APPL-SN-582494 ..... c 36 N84-25037 * #
US-PATENT-APPL-SN-582495 ..... c 44 N86-27706 *
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US-PATENT-APPL-SN-582643 ..... c 35 N85-34374 *
US-PATENT-APPL-SN-583055 ..... c 07 N78-18067 *
US-PATENT-APPL-SN-583056 ..... c 37 N78-17384 *
US-PATENT-APPL-SN-583219 ..... c 43 N82-13465 *
US-PATENT-APPL-SN-583485 ..... c 33 N77-28385 *
US-PATENT-APPL-SN-583486 ..... c 33 N77-26386 *
US-PATENT-APPL-SN-583487 ..... c 52 N76-19785 *
US-PATENT-APPL-SN-584015 ..... c 14 N71-26475 *
US-PATENT-APPL-SN-584018 ..... c 35 N92-10185 *
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US-PATENT-APPL-SN-584070 ..... c 09 N69-27500 * #
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US-PATENT-APPL-SN-584072 ..... c 15 N69-39786 * #
US-PATENT-APPL-SN-584094 ..... c 26 N77-20201 *
US-PATENT-APPL-SN-584914 ..... c 54 N78-17679 *
US-PATENT-APPL-SN-585217 ..... c 54 N78-17677 *
US-PATENT-APPL-SN-585420 ..... c 35 N76-31489 *
US-PATENT-APPL-SN-585627 ..... c 52 N91-14709 *
US-PATENT-APPL-SN-585988 ..... c 33 N75-29318 *
US-PATENT-APPL-SN-586324 ..... c 05 N71-26293 *
US-PATENT-APPL-SN-586325 ..... c 31 N71-24315 *
US-PATENT-APPL-SN-586329 ..... c 05 N71-24623 *
US-PATENT-APPL-SN-586330 ..... c 05 N71-12344 *
US-PATENT-APPL-SN-586369 ..... c 74 N92-33017 *
US-PATENT-APPL-SN-587749 ..... c 60 N88-29310 *
US-PATENT-APPL-SN-587764 ..... c 18 N86-24729 *
US-PATENT-APPL-SN-587890 ..... c 25 N92-25399 * #
US-PATENT-APPL-SN-587919 ..... c 54 N91-13879 * #
US-PATENT-APPL-SN-587921 ..... c 74 N92-28571 *
US-PATENT-APPL-SN-587922 ..... c 61 N91-13911 * #
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US-PATENT-APPL-SN-588039 ..... c 18 N87-14373 *
US-PATENT-APPL-SN-588164 ..... c 31 N85-29082 *
US-PATENT-APPL-SN-588635 ..... c 21 N71-15642 *
US-PATENT-APPL-SN-588651 ..... c 31 N71-24813 *
US-PATENT-APPL-SN-588671 ..... c 03 N71-23354 *
US-PATENT-APPL-SN-588721 ..... c 27 N78-33228 *
US-PATENT-APPL-SN-589119 ..... c 32 N77-32342 *
US-PATENT-APPL-SN-589172 ..... c 27 N79-14214 *
US-PATENT-APPL-SN-589173 ..... c 32 N77-12240 *
US-PATENT-APPL-SN-589233 ..... c 33 N77-14335 *
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US-PATENT-APPL-SN-590925 ..... c 26 N86-32550 *
US-PATENT-APPL-SN-590975 ..... c 44 N78-31525 *
US-PATENT-APPL-SN-591000 ..... c 15 N71-24044 *
US-PATENT-APPL-SN-591004 ..... c 07 N71-11266 *
US-PATENT-APPL-SN-591007 ..... c 16 N69-27491 * #
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US-PATENT-APPL-SN-591569 ..... c 37 N77-12402 *
US-PATENT-APPL-SN-591643 ..... c 82 N91-23976 * #
US-PATENT-APPL-SN-591644 ..... c 31 N91-31476 *
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US-PATENT-APPL-SN-605994 ..... c 06 N73-30101 *
US-PATENT-APPL-SN-606027 ..... c 06 N73-30099 *
US-PATENT-APPL-SN-606036 ..... c 06 N73-30100 *
US-PATENT-APPL-SN-606426 ..... c 74 N86-29650 * #
US-PATENT-APPL-SN-606431 ..... c 37 N86-25791 *
US-PATENT-APPL-SN-606432 ..... c 74 N87-21679 *
US-PATENT-APPL-SN-606462 ..... c 08 N71-24891 *
US-PATENT-APPL-SN-606463 ..... c 14 N71-24864 *
US-PATENT-APPL-SN-606464 ..... c 15 N71-18579 *
US-PATENT-APPL-SN-606891 ..... c 44 N77-14581 *
US-PATENT-APPL-SN-606988 ..... c 35 N92-29135 *
US-PATENT-APPL-SN-607461 ..... c 05 N71-12346 *
US-PATENT-APPL-SN-607484 ..... c 09 N71-26002 *
US-PATENT-APPL-SN-607608 ..... c 14 N69-27484 * #
US-PATENT-APPL-SN-607969 ..... c 09 N76-23273 *
US-PATENT-APPL-SN-608247 ..... c 15 N71-20813 *
US-PATENT-APPL-SN-608452 ..... c 74 N92-16809 *
US-PATENT-APPL-SN-608482 ..... c 74 N77-20882 *
US-PATENT-APPL-SN-608483 ..... c 09 N77-19076 *
US-PATENT-APPL-SN-608493 ..... c 24 N92-16025 *
US-PATENT-APPL-SN-608494 ..... c 34 N91-23410 * #
US-PATENT-APPL-SN-608504 ..... c 39 N92-29101 *
US-PATENT-APPL-SN-608657 ..... c 37 N91-31656 *
US-PATENT-APPL-SN-608741 ..... c 23 N85-28973 *
US-PATENT-APPL-SN-60876 ..... c 15 N72-27485 *
US-PATENT-APPL-SN-60881 ..... c 32 N72-25877 *
US-PATENT-APPL-SN-60882 ..... c 05 N73-32011 *
US-PATENT-APPL-SN-60883 ..... c 10 N73-13235 *
US-PATENT-APPL-SN-608944 ..... c 15 N71-23798 *
US-PATENT-APPL-SN-60950 ..... c 04 N73-27052 *
US-PATENT-APPL-SN-610723 ..... c 14 N71-23755 *
US-PATENT-APPL-SN-610724 ..... c 31 N71-28851 *
US-PATENT-APPL-SN-610728 ..... c 31 N71-22969 *
US-PATENT-APPL-SN-610801 ..... c 76 N77-32919 *
US-PATENT-APPL-SN-610802 ..... c 35 N77-20400 *
US-PATENT-APPL-SN-610879 ..... c 37 N92-22043 *
US-PATENT-APPL-SN-610883 ..... c 27 N92-16122 *
US-PATENT-APPL-SN-611214 ..... c 32 N92-10128 *
US-PATENT-APPL-SN-611414 ..... c 46 N74-23068 *
US-PATENT-APPL-SN-611414 ..... c 46 N74-23069 *
US-PATENT-APPL-SN-612265 ..... c 14 N72-22442 *
US-PATENT-APPL-SN-612568 ..... c 15 N71-28952 *
US-PATENT-APPL-SN-612740 ..... c 25 N71-20563 *
US-PATENT-APPL-SN-612899 ..... c 07 N77-18154 *
US-PATENT-APPL-SN-612964 ..... c 20 N77-10148 *
US-PATENT-APPL-SN-612965 ..... c 52 N77-14735 *
US-PATENT-APPL-SN-612966 ..... c 35 N78-12390 *
US-PATENT-APPL-SN-612967 ..... c 74 N77-18893 *
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US-PATENT-APPL-SN-613046 ..... c 24 N91-15334 * #
US-PATENT-APPL-SN-613139 ..... c 27 N86-27450 *
US-PATENT-APPL-SN-613140 ..... c 33 N86-20669 *
US-PATENT-APPL-SN-613188 ..... c 37 N92-29151 *
US-PATENT-APPL-SN-613235 ..... c 14 N73-30394 *
US-PATENT-APPL-SN-61329 ..... c 31 N70-37986 *
US-PATENT-APPL-SN-613734 ..... c 52 N77-14738 *
US-PATENT-APPL-SN-613979 ..... c 33 N71-14035 *
US-PATENT-APPL-SN-615030 ..... c 35 N78-19465 *
US-PATENT-APPL-SN-61535 ..... c 15 N72-25453 *
US-PATENT-APPL-SN-615505 ..... c 34 N85-29180 *
US-PATENT-APPL-SN-615668 ..... c 63 N92-33019 *
US-PATENT-APPL-SN-616002 ..... c 34 N86-27593 *
US-PATENT-APPL-SN-616332 ..... c 24 N77-27188 *
US-PATENT-APPL-SN-616333 ..... c 33 N76-32457 *
US-PATENT-APPL-SN-616472 ..... c 74 N77-22951 *
US-PATENT-APPL-SN-616528 ..... c 24 N80-33482 *
US-PATENT-APPL-SN-617021 ..... c 23 N71-16101 *
US-PATENT-APPL-SN-617022 ..... c 07 N69-27462 * #
US-PATENT-APPL-SN-617202 ..... c 74 N77-28933 *
US-PATENT-APPL-SN-617612 ..... c 52 N77-10780 *
US-PATENT-APPL-SN-617752 ..... c 37 N92-16318 *
US-PATENT-APPL-SN-617770 ..... c 14 N71-23267 *
US-PATENT-APPL-SN-617774 ..... c 18 N71-16124 *
US-PATENT-APPL-SN-617775 ..... c 06 N71-28807 *
US-PATENT-APPL-SN-617776 ..... c 18 N69-39895 * #
US-PATENT-APPL-SN-617778 ..... c 14 N71-26244 *
US-PATENT-APPL-SN-617779 ..... c 09 N69-39929 * #
US-PATENT-APPL-SN-617783 ..... c 15 N69-24266 * #
US-PATENT-APPL-SN-617871 ..... c 27 N85-29043 *
US-PATENT-APPL-SN-617895 ..... c 32 N77-14292 *
US-PATENT-APPL-SN-618594 ..... c 37 N77-13418 *
US-PATENT-APPL-SN-618789 ..... c 70 N92-29130 *
US-PATENT-APPL-SN-618790 ..... c 47 N92-29148 *
US-PATENT-APPL-SN-618854 ..... c 27 N92-16123 *
US-PATENT-APPL-SN-61894 ..... c 12 N72-21310 *
US-PATENT-APPL-SN-61895 ..... c 07 N72-33146 *
US-PATENT-APPL-SN-618969 ..... c 05 N71-26333 *
US-PATENT-APPL-SN-619519 ..... c 32 N71-16106 *
US-PATENT-APPL-SN-619520 ..... c 05 N69-21380 * #
US-PATENT-APPL-SN-619521 ..... c 06 N69-39889 * #
US-PATENT-APPL-SN-619903 ..... c 15 N69-27505 * #
US-PATENT-APPL-SN-619907 ..... c 09 N69-21543 * #
US-PATENT-APPL-SN-619908 ..... c 08 N71-20571 *
US-PATENT-APPL-SN-619986 ..... c 37 N75-32465 * #
US-PATENT-APPL-SN-620675 ..... c 35 N78-19466 *
US-PATENT-APPL-SN-621098 ..... c 09 N71-20446 *
US-PATENT-APPL-SN-621144 ..... c 02 N92-21588 *
US-PATENT-APPL-SN-621714 ..... c 15 N71-19569 *
US-PATENT-APPL-SN-621715 ..... c 05 N71-11207 *
US-PATENT-APPL-SN-621742 ..... c 28 N71-23968 *
US-PATENT-APPL-SN-623156 ..... c 04 N77-19056 *
US-PATENT-APPL-SN-623187 ..... c 34 N77-19353 *
US-PATENT-APPL-SN-623188 ..... c 54 N77-21844 *
US-PATENT-APPL-SN-623238 ..... c 51 N77-25769 *
US-PATENT-APPL-SN-623389 ..... c 31 N81-15154 *
US-PATENT-APPL-SN-623536 ..... c 09 N78-18083 *
US-PATENT-APPL-SN-625077 ..... c 44 N86-25874 *
US-PATENT-APPL-SN-625344 ..... c 34 N92-16241 *
US-PATENT-APPL-SN-625345 ..... c 51 N92-34232 *
US-PATENT-APPL-SN-625436 ..... c 33 N90-20320 *
US-PATENT-APPL-SN-625732 ..... c 35 N77-18417 *
US-PATENT-APPL-SN-625733 ..... c 26 N77-28265 *
US-PATENT-APPL-SN-625734 ..... c 35 N78-10428 *
US-PATENT-APPL-SN-625759 ..... c 37 N77-14478 *
US-PATENT-APPL-SN-625781 ..... c 33 N77-31404 *
US-PATENT-APPL-SN-626376 ..... c 05 N71-11189 *
US-PATENT-APPL-SN-626942 ..... c 51 N77-27677 *
US-PATENT-APPL-SN-627257 ..... c 08 N71-12504 *
US-PATENT-APPL-SN-627537 ..... c 71 N88-24241 *
US-PATENT-APPL-SN-627599 ..... c 18 N71-16046 *
US-PATENT-APPL-SN-628062 ..... c 25 N92-33611 *
US-PATENT-APPL-SN-628094 ..... c 16 N71-20400 *
US-PATENT-APPL-SN-628221 ..... c 07 N78-18066 *
US-PATENT-APPL-SN-628246 ..... c 15 N71-17687 *
US-PATENT-APPL-SN-628247 ..... c 09 N69-21542 * #
US-PATENT-APPL-SN-628248 ..... c 14 N69-27432 * #
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US-PATENT-APPL-SN-628866 ..... c 31 N85-20153 *
US-PATENT-APPL-SN-629456 ..... c 37 N77-14479 *
US-PATENT-APPL-SN-629457 ..... c 35 N77-32454 *
US-PATENT-APPL-SN-629458 ..... c 35 N78-17357 *
US-PATENT-APPL-SN-629740 ..... c 29 N91-17250 * #
US-PATENT-APPL-SN-629759 ..... c 15 N71-16076 *
US-PATENT-APPL-SN-630579 ..... c 35 N77-24454 *
US-PATENT-APPL-SN-630583 ..... c 33 N77-24375 *
US-PATENT-APPL-SN-631341 ..... c 60 N78-17691 *
US-PATENT-APPL-SN-63144 ..... c 16 N72-28521 *
US-PATENT-APPL-SN-631848 ..... c 09 N71-12514 *
US-PATENT-APPL-SN-63195 ..... c 14 N72-27408 *
US-PATENT-APPL-SN-632104 ..... c 09 N71-19470 *
US-PATENT-APPL-SN-632111 ..... c 37 N79-10422 *
US-PATENT-APPL-SN-632112 ..... c 35 N77-22449 *
US-PATENT-APPL-SN-632152 ..... c 10 N71-24798 *
US-PATENT-APPL-SN-632154 ..... c 09 N69-39984 * #
US-PATENT-APPL-SN-632162 ..... c 14 N69-39937 * #
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US-PATENT-APPL-SN-632164 ..... c 15 N69-24319 * #
US-PATENT-APPL-SN-632165 ..... c 14 N71-26266 *
US-PATENT-APPL-SN-632408 ..... c 74 N93-13711 *
US-PATENT-APPL-SN-633178 ..... c 25 N84-32447 * #
US-PATENT-APPL-SN-633179 ..... c 34 N86-12547 *
US-PATENT-APPL-SN-633180 ..... c 09 N89-25242 *
US-PATENT-APPL-SN-633363 ..... c 25 N86-25428 *
US-PATENT-APPL-SN-633746 ..... c 74 N92-33028 *
US-PATENT-APPL-SN-63383 ..... c 08 N72-20177 *
US-PATENT-APPL-SN-63384 ..... c 05 N72-22093 *
US-PATENT-APPL-SN-633876 ..... c 27 N78-19302 *
US-PATENT-APPL-SN-633877 ..... c 27 N77-13217 *
US-PATENT-APPL-SN-634038 ..... c 25 N71-16073 *
US-PATENT-APPL-SN-634040 ..... c 15 N71-19489 *
US-PATENT-APPL-SN-634060 ..... c 09 N69-39897 * #
US-PATENT-APPL-SN-634205 ..... c 35 N77-14406 *
US-PATENT-APPL-SN-634214 ..... c 73 N78-28913 *
US-PATENT-APPL-SN-634304 ..... c 27 N79-18052 *
US-PATENT-APPL-SN-635325 ..... c 14 N69-27431 * #
US-PATENT-APPL-SN-635326 ..... c 14 N71-18482 *
US-PATENT-APPL-SN-635327 ..... c 12 N69-39988 * #
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US-PATENT-APPL-SN-63532 ..... c 08 N72-25209 *
US-PATENT-APPL-SN-635519 ..... c 35 N77-24455 *
US-PATENT-APPL-SN-635531 ..... c 33 N77-14334 *
US-PATENT-APPL-SN-635970 ..... c 15 N69-21465 * #
US-PATENT-APPL-SN-635972 ..... c 18 N71-23710 *
US-PATENT-APPL-SN-636076 ..... c 35 N92-29156 *
US-PATENT-APPL-SN-63610 ..... c 06 N72-25147 *
US-PATENT-APPL-SN-636193 ..... c 74 N78-15880 *
US-PATENT-APPL-SN-636459 ..... c 44 N87-21410 *
US-PATENT-APPL-SN-636463 ..... c 20 N87-16875 *
US-PATENT-APPL-SN-636465 ..... c 37 N85-29284 *
US-PATENT-APPL-SN-636531 ..... c 37 N92-33018 *
US-PATENT-APPL-SN-636532 ..... c 37 N92-29140 *
US-PATENT-APPL-SN-636796 ..... c 35 N78-17358 *
US-PATENT-APPL-SN-636878 ..... c 14 N71-20442 *
US-PATENT-APPL-SN-637247 ..... c 35 N77-10493 *
US-PATENT-APPL-SN-637249 ..... c 38 N76-28563 *
US-PATENT-APPL-SN-637268 ..... c 47 N77-10753 *
US-PATENT-APPL-SN-637269 ..... c 52 N77-28717 *
US-PATENT-APPL-SN-637882 ..... c 15 N71-17650 *
US-PATENT-APPL-SN-638192 ..... c 10 N71-26415 *
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US-PATENT-APPL-SN-638541 ..... c 33 N86-20671 *
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US-PATENT-APPL-SN-638586 ..... c 32 N87-21207 *
US-PATENT-APPL-SN-638600 ..... c 25 N92-33029 *
US-PATENT-APPL-SN-638707 ..... c 14 N69-27486 * #
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US-PATENT-APPL-SN-640457 ..... c 03 N71-11052 *
US-PATENT-APPL-SN-640458 ..... c 15 N71-23811 *
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US-PATENT-APPL-SN-640460 ..... c 14 N69-21541 * #
US-PATENT-APPL-SN-640462 ..... c 15 N71-20443 *
US-PATENT-APPL-SN-640712 ..... c 24 N85-35233 *
US-PATENT-APPL-SN-640775 ..... c 35 N92-22039 *
US-PATENT-APPL-SN-640781 ..... c 03 N69-25146 * #
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US-PATENT-APPL-SN-641143 ..... c 27 N85-34280 *
US-PATENT-APPL-SN-641146 ..... c 76 N87-13313 *
US-PATENT-APPL-SN-641147 ..... c 27 N87-23751 *
US-PATENT-APPL-SN-641152 ..... c 23 N87-28605 *
US-PATENT-APPL-SN-641152 ..... c 23 N90-20133 *
US-PATENT-APPL-SN-641152 ..... c 23 N90-23475 *
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US-PATENT-APPL-SN-641798 ..... c 76 N92-22041 *
US-PATENT-APPL-SN-641802 ..... c 34 N77-30399 *
US-PATENT-APPL-SN-641803 ..... c 35 N78-18391 *
US-PATENT-APPL-SN-64224 ..... c 17 N70-38490 *
US-PATENT-APPL-SN-64226 ..... c 17 N70-38198 *
US-PATENT-APPL-SN-642310 ..... c 44 N86-19721 *
US-PATENT-APPL-SN-642602 ..... c 54 N86-29507 * #
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US-PATENT-APPL-SN-643522 ..... c 16 N86-26352 *
US-PATENT-APPL-SN-643524 ..... c 27 N86-29039 *
US-PATENT-APPL-SN-643589 ..... c 27 N86-31727 *
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US-PATENT-APPL-SN-644446 ..... c 14 N71-24693 *
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US-PATENT-APPL-SN-645563 ..... c 31 N71-20396 *
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US-PATENT-APPL-SN-645573 ..... c 24 N71-25555 *
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US-PATENT-APPL-SN-651009 ..... c 26 N78-18182 *
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US-PATENT-APPL-SN-651627 ..... c 26 N72-25679 *
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US-PATENT-APPL-SN-651972 ..... c 27 N74-23125 *
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US-PATENT-APPL-SN-653277 ..... c 31 N71-23912 *
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US-PATENT-APPL-SN-657907 ..... c 27 N78-17213 *
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US-PATENT-APPL-SN-657997 ..... c 60 N77-32731 *
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US-PATENT-APPL-SN-658450 ..... c 37 N77-22482 *
US-PATENT-APPL-SN-658477 ..... c 71 N93-13421 *
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US-PATENT-APPL-SN-658956 ..... c 15 N71-15607 *
US-PATENT-APPL-SN-658957 ..... c 14 N71-17584 *
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US-PATENT-APPL-SN-659475 ..... c 31 N86-32587 *
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US-PATENT-APPL-SN-660371 ..... c 32 N92-29124 *
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US-PATENT-APPL-SN-660572 ..... c 15 N71-15571 *
US-PATENT-APPL-SN-660573 ..... c 15 N71-28936 *
US-PATENT-APPL-SN-660755 ..... c 37 N93-13417 *
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US-PATENT-APPL-SN-660842 ..... c 14 N71-23726 *
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US-PATENT-APPL-SN-6615 ..... c 03 N72-25019 *
US-PATENT-APPL-SN-6616 ..... c 03 N72-22042 *
US-PATENT-APPL-SN-6617 ..... c 15 N72-22488 *
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US-PATENT-APPL-SN-662176 ..... c 32 N77-21267 *
US-PATENT-APPL-SN-662181 ..... c 25 N82-21269 *
US-PATENT-APPL-SN-662182 ..... c 37 N78-27424 *
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US-PATENT-APPL-SN-664008 ..... c 54 N92-16559 *
US-PATENT-APPL-SN-664091 ..... c 43 N79-17288 *
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US-PATENT-APPL-SN-665209 ..... c 14 N71-23725 *
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US-PATENT-APPL-SN-665509 ..... c 74 N92-29122 *
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US-PATENT-APPL-SN-665681 ..... c 15 N71-18616 *
US-PATENT-APPL-SN-665734 ..... c 35 N78-18390 *
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US-PATENT-APPL-SN-667010 ..... c 34 N77-27345 *
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US-PATENT-APPL-SN-667929 ..... c 35 N79-14346 *
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US-PATENT-APPL-SN-668248 ..... c 10 N71-26331 *
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US-PATENT-APPL-SN-668257 ..... c 23 N71-16100 *
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US-PATENT-APPL-SN-668783 ..... c 28 N80-10374 *
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US-PATENT-APPL-SN-668969 ..... c 08 N71-19288 *
US-PATENT-APPL-SN-668971 ..... c 07 N78-33101 *
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US-PATENT-APPL-SN-669336 ..... c 15 N71-17651 *
US-PATENT-APPL-SN-669911 ..... c 33 N78-17295 *
US-PATENT-APPL-SN-669928 ..... c 44 N77-22607 *
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US-PATENT-APPL-SN-670829 ..... c 28 N72-23809 *
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US-PATENT-APPL-SN-672221 ..... c 07 N78-27121 *
US-PATENT-APPL-SN-672222 ..... c 07 N78-25090 *
US-PATENT-APPL-SN-672223 ..... c 51 N78-27733 *
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US-PATENT-APPL-SN-672636 ..... c 37 N79-11405 *
US-PATENT-APPL-SN-672695 ..... c 27 N78-17206 *
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US-PATENT-APPL-SN-674194 ..... c 27 N78-17215 *
US-PATENT-APPL-SN-674195 ..... c 74 N78-17866 *
US-PATENT-APPL-SN-674355 ..... c 14 N71-20429 *
US-PATENT-APPL-SN-674356 ..... c 14 N71-23699 *
US-PATENT-APPL-SN-674357 ..... c 05 N71-12351 *
US-PATENT-APPL-SN-674395 ..... c 76 N87-23286 *
US-PATENT-APPL-SN-674636 ..... c 31 N91-25306 * #
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US-PATENT-APPL-SN-674828 ..... c 52 N92-33032 *
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US-PATENT-APPL-SN-675328 ..... c 35 N78-15461 *
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US-PATENT-APPL-SN-676012 ..... c 05 N71-11193 *
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US-PATENT-APPL-SN-676432 ..... c 28 N81-14103 *
US-PATENT-APPL-SN-676433 ..... c 52 N77-28716 *
US-PATENT-APPL-SN-676910 ..... c 44 N92-29143 *
US-PATENT-APPL-SN-676957 ..... c 32 N77-18307 *
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US-PATENT-APPL-SN-677351 ..... c 35 N77-32455 *
US-PATENT-APPL-SN-677352 ..... c 43 N78-10529 *

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US-PATENT-APPL-SN-677476 ..... c 14 N71-17586 *
US-PATENT-APPL-SN-677505 ..... c 09 N71-13521 *
US-PATENT-APPL-SN-677506 ..... c 16 N71-15567 *
US-PATENT-APPL-SN-677508 ..... c 16 N71-15551 *
US-PATENT-APPL-SN-67815 ..... c 28 N72-22771 *
US-PATENT-APPL-SN-678520 ..... c 20 N78-24275 *
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US-PATENT-APPL-SN-679996 ..... c 44 N82-24643 *
US-PATENT-APPL-SN-680015 ..... c 52 N79-14750 *
US-PATENT-APPL-SN-680048 ..... c 44 N82-24641 *
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US-PATENT-APPL-SN-683111 ..... c 33 N87-22894 *
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US-PATENT-APPL-SN-700255 ..... c 33 N87-21234 *
US-PATENT-APPL-SN-70032 ..... c 11 N73-12264 *
US-PATENT-APPL-SN-700379 ..... c 74 N91-32924 * #
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US-PATENT-APPL-SN-700541 ..... c 10 N71-25139 *
US-PATENT-APPL-SN-700586 ..... c 15 N71-19570 *
US-PATENT-APPL-SN-700673 ..... c 39 N77-28511 *
US-PATENT-APPL-SN-700830 ..... c 33 N92-10146 * #
US-PATENT-APPL-SN-700984 ..... c 11 N71-19494 *
US-PATENT-APPL-SN-700985 ..... c 15 N69-23190 * #
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US-PATENT-APPL-SN-700987 ..... c 09 N71-19610 *
US-PATENT-APPL-SN-701244 ..... c 05 N72-20096 *
US-PATENT-APPL-SN-701448 ..... c 52 N78-10686 *
US-PATENT-APPL-SN-701486 ..... c 31 N87-21159 *
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US-PATENT-APPL-SN-701654 ..... c 03 N71-11049 *
US-PATENT-APPL-SN-701679 ..... c 02 N71-19287 *
US-PATENT-APPL-SN-701679 ..... c 07 N73-20174 *
US-PATENT-APPL-SN-701732 ..... c 24 N71-16095 *
US-PATENT-APPL-SN-701733 ..... c 10 N71-24844 *
US-PATENT-APPL-SN-701744 ..... c 21 N71-13958 *
US-PATENT-APPL-SN-701767 ..... c 07 N71-26101 *
US-PATENT-APPL-SN-702115 ..... c 71 N79-14871 *
US-PATENT-APPL-SN-702396 ..... c 31 N71-16345 *
US-PATENT-APPL-SN-702529 ..... c 36 N91-28557 * #
US-PATENT-APPL-SN-702911 ..... c 15 N71-24875 *
US-PATENT-APPL-SN-702967 ..... c 06 N71-24739 *
US-PATENT-APPL-SN-703107 ..... c 37 N77-22479 *
US-PATENT-APPL-SN-703238 ..... c 74 N92-11791 * #
US-PATENT-APPL-SN-703435 ..... c 74 N93-11058 *
US-PATENT-APPL-SN-703649 ..... c 34 N92-11286 * #
US-PATENT-APPL-SN-703847 ..... c 72 N86-33127 *
US-PATENT-APPL-SN-703905 ..... c 32 N80-14281 *
US-PATENT-APPL-SN-704180 ..... c 36 N78-27402 *
US-PATENT-APPL-SN-704224 ..... c 18 N71-15469 *
US-PATENT-APPL-SN-704299 ..... c 10 N71-26577 *
US-PATENT-APPL-SN-704420 ..... c 05 N71-11202 *
US-PATENT-APPL-SN-704446 ..... c 10 N71-33407 *
US-PATENT-APPL-SN-704465 ..... c 07 N71-24741 *
US-PATENT-APPL-SN-704468 ..... c 25 N79-28253 *
US-PATENT-APPL-SN-704668 ..... c 10 N71-12554 *
US-PATENT-APPL-SN-705474 ..... c 39 N92-11374 * #
US-PATENT-APPL-SN-706013 ..... c 33 N71-27862 *
US-PATENT-APPL-SN-706073 ..... c 76 N79-11920 *
US-PATENT-APPL-SN-706424 ..... c 27 N78-32256 *
US-PATENT-APPL-SN-706424 ..... c 27 N80-10358 *
US-PATENT-APPL-SN-706424 ..... c 27 N80-24438 *
US-PATENT-APPL-SN-706425 ..... c 33 N78-10376 *
US-PATENT-APPL-SN-706564 ..... c 14 N71-17587 *
US-PATENT-APPL-SN-706564 ..... c 76 N87-15882 *
US-PATENT-APPL-SN-706565 ..... c 76 N87-25862 *
US-PATENT-APPL-SN-706681 ..... c 35 N86-32696 *
US-PATENT-APPL-SN-706682 ..... c 24 N86-28131 *
US-PATENT-APPL-SN-707124 ..... c 44 N77-22606 *
US-PATENT-APPL-SN-707125 ..... c 39 N78-16387 *
US-PATENT-APPL-SN-707440 ..... c 06 N73-30102 *
US-PATENT-APPL-SN-707495 ..... c 11 N71-18773 *
US-PATENT-APPL-SN-708255 ..... c 24 N93-14706 *
US-PATENT-APPL-SN-708658 ..... c 33 N77-26385 *
US-PATENT-APPL-SN-708660 ..... c 34 N78-27357 *
US-PATENT-APPL-SN-708771 ..... c 26 N78-24333 *
US-PATENT-APPL-SN-708795 ..... c 37 N77-28487 *
US-PATENT-APPL-SN-708796 ..... c 36 N78-18410 *
US-PATENT-APPL-SN-708800 ..... c 54 N78-17676 *
US-PATENT-APPL-SN-708951 ..... c 27 N78-31232 *
US-PATENT-APPL-SN-709255 ..... c 37 N86-32738 *
US-PATENT-APPL-SN-709257 ..... c 32 N87-14559 *
US-PATENT-APPL-SN-709398 ..... c 06 N71-13461 *
US-PATENT-APPL-SN-709399 ..... c 16 N71-26154 *
US-PATENT-APPL-SN-709415 ..... c 44 N78-27515 *
US-PATENT-APPL-SN-709622 ..... c 33 N71-24858 *
US-PATENT-APPL-SN-70967 ..... c 07 N73-13149 *
US-PATENT-APPL-SN-70967 ..... c 32 N74-10132 *
US-PATENT-APPL-SN-709849 ..... c 52 N77-25772 *
US-PATENT-APPL-SN-709907 ..... c 20 N91-26200 * #
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US-PATENT-APPL-SN-710035 ..... c 44 N78-24608 *
US-PATENT-APPL-SN-710036 ..... c 44 N78-32539 *
US-PATENT-APPL-SN-710192 ..... c 33 N91-26459 * #
US-PATENT-APPL-SN-710193 ..... c 35 N91-25388 * #
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US-PATENT-APPL-SN-71048 ..... c 18 N73-12604 *
US-PATENT-APPL-SN-710533 ..... c 02 N71-11043 *
US-PATENT-APPL-SN-710561 ..... c 09 N71-12517 *
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US-PATENT-APPL-SN-710845 ..... c 63 N93-14701 *
US-PATENT-APPL-SN-710945 ..... c 33 N71-15568 *
US-PATENT-APPL-SN-710949 ..... c 12 N71-17631 *
US-PATENT-APPL-SN-711898 ..... c 18 N71-24934 *
US-PATENT-APPL-SN-711903 ..... c 18 N71-26772 *
US-PATENT-APPL-SN-711921 ..... c 18 N71-16105 *
US-PATENT-APPL-SN-711970 ..... c 09 N71-18830 *
US-PATENT-APPL-SN-711971 ..... c 09 N71-23598 *
US-PATENT-APPL-SN-711972 ..... c 06 N71-24607 *
US-PATENT-APPL-SN-712065 ..... c 08 N71-12503 *
US-PATENT-APPL-SN-712099 ..... c 23 N71-24868 *
US-PATENT-APPL-SN-712270 ..... c 52 N79-27836 *
US-PATENT-APPL-SN-712419 ..... c 35 N78-14364 *
US-PATENT-APPL-SN-712658 ..... c 07 N71-19773 *
US-PATENT-APPL-SN-712796 ..... c 60 N91-32805 * #
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US-PATENT-APPL-SN-713162 ..... c 06 N71-26754 *
US-PATENT-APPL-SN-713188 ..... c 08 N71-33110 *
US-PATENT-APPL-SN-713449 ..... c 74 N87-25843 *
US-PATENT-APPL-SN-713616 ..... c 06 N71-27363 *
US-PATENT-APPL-SN-714051 ..... c 33 N86-21742 *
US-PATENT-APPL-SN-714158 ..... c 33 N78-13320 *
US-PATENT-APPL-SN-714296 ..... c 14 N71-15604 *
US-PATENT-APPL-SN-714595 ..... c 15 N71-17822 *
US-PATENT-APPL-SN-714814 ..... c 37 N92-29120 *
US-PATENT-APPL-SN-715485 ..... c 74 N78-14889 *

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US-PATENT-APPL-SN-716150 ..... c 32 N92-10126 * #
US-PATENT-APPL-SN-716150 ..... c 32 N93-18284 *
US-PATENT-APPL-SN-716182 ..... c 53 N91-28730 * #
US-PATENT-APPL-SN-716183 ..... c 15 N71-18132 *
US-PATENT-APPL-SN-716734 ..... c 15 N71-17628 *
US-PATENT-APPL-SN-716795 ..... c 14 N71-20435 *
US-PATENT-APPL-SN-716885 ..... c 74 N78-33913 *
US-PATENT-APPL-SN-717052 ..... c 14 N71-17626 *
US-PATENT-APPL-SN-717319 ..... c 44 N77-31601 *
US-PATENT-APPL-SN-717320 ..... c 44 N78-15560 *
US-PATENT-APPL-SN-717447 ..... c 76 N93-14707 *
US-PATENT-APPL-SN-717755 ..... c 39 N92-34174 *
US-PATENT-APPL-SN-717822 ..... c 09 N71-25866 *
US-PATENT-APPL-SN-718046 ..... c 26 N92-29094 *
US-PATENT-APPL-SN-718095 ..... c 28 N70-39899 *
US-PATENT-APPL-SN-718137 ..... c 44 N78-31527 *
US-PATENT-APPL-SN-718244 ..... c 05 N78-32086 *
US-PATENT-APPL-SN-718266 ..... c 74 N78-17867 *
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US-PATENT-APPL-SN-718279 ..... c 15 N71-26312 *
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US-PATENT-APPL-SN-718769 ..... c 14 N71-17662 *
US-PATENT-APPL-SN-718798 ..... c 76 N91-15898 *
US-PATENT-APPL-SN-719029 ..... c 14 N71-27186 *
US-PATENT-APPL-SN-719173 ..... c 28 N70-33331 *
US-PATENT-APPL-SN-719794 ..... c 35 N86-32695 * #
US-PATENT-APPL-SN-719796 ..... c 24 N86-21590 *
US-PATENT-APPL-SN-719799 ..... c 35 N86-25752 *
US-PATENT-APPL-SN-719869 ..... c 31 N71-15676 *
US-PATENT-APPL-SN-719870 ..... c 07 N71-26292 *
US-PATENT-APPL-SN-720041 ..... c 05 N71-27234 *
US-PATENT-APPL-SN-720125 ..... c 09 N71-12539 *
US-PATENT-APPL-SN-720133 ..... c 27 N91-28423 * #
US-PATENT-APPL-SN-720153 ..... c 39 N92-11384 * #
US-PATENT-APPL-SN-72024 ..... c 09 N73-12211 *
US-PATENT-APPL-SN-720521 ..... c 44 N78-25530 *
US-PATENT-APPL-SN-720546 ..... c 18 N72-17532 *
US-PATENT-APPL-SN-721038 ..... c 27 N91-28424 * #
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US-PATENT-APPL-SN-723804 ..... c 09 N71-24806 *
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US-PATENT-APPL-SN-723827 ..... c 10 N71-27137 *
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US-PATENT-APPL-SN-725405 ..... c 15 N71-26134 *
US-PATENT-APPL-SN-725432 ..... c 07 N71-24622 *
US-PATENT-APPL-SN-725475 ..... c 31 N71-15643 *
US-PATENT-APPL-SN-725686 ..... c 27 N87-15304 *
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US-PATENT-APPL-SN-725714 ..... c 33 N89-14384 *
US-PATENT-APPL-SN-725719 ..... c 15 N71-26243 *
US-PATENT-APPL-SN-725725 ..... c 27 N87-16908 *
US-PATENT-APPL-SN-725727 ..... c 27 N87-22845 *
US-PATENT-APPL-SN-726898 ..... c 12 N71-17579 *
US-PATENT-APPL-SN-727034 ..... c 35 N87-14669 *
US-PATENT-APPL-SN-727035 ..... c 33 N86-32624 *
US-PATENT-APPL-SN-727444 ..... c 31 N81-15154 *
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US-PATENT-APPL-SN-729704 ..... c 37 N87-23983 *
US-PATENT-APPL-SN-729719 ..... c 32 N87-25511 *
US-PATENT-APPL-SN-729766 ..... c 09 N87-14355 *
US-PATENT-APPL-SN-729767 ..... c 24 N87-27742 * #
US-PATENT-APPL-SN-729768 ..... c 72 N87-21660 *
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US-PATENT-APPL-SN-730162 ..... c 09 N71-18599 *
US-PATENT-APPL-SN-730468 ..... c 25 N79-11152 *
US-PATENT-APPL-SN-730700 ..... c 07 N71-24583 *
US-PATENT-APPL-SN-730701 ..... c 12 N71-18615 *
US-PATENT-APPL-SN-730702 ..... c 33 N71-16356 *
US-PATENT-APPL-SN-730703 ..... c 10 N71-13537 *
US-PATENT-APPL-SN-730733 ..... c 28 N71-16224 *
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US-PATENT-APPL-SN-730778 ..... c 32 N79-10264 *
US-PATENT-APPL-SN-731388 ..... c 15 N71-24835 *
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US-PATENT-APPL-SN-734366 ..... c 27 N87-22847 *
US-PATENT-APPL-SN-734805 ..... c 14 N70-34816 *
US-PATENT-APPL-SN-734901 ..... c 27 N78-17205 *
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US-PATENT-APPL-SN-736985 ..... c 25 N92-30098 * #
US-PATENT-APPL-SN-737018 ..... c 37 N86-20801 * #
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US-PATENT-APPL-SN-737975 ..... c 32 N84-27952 *
US-PATENT-APPL-SN-738119 ..... c 18 N71-15545 *
US-PATENT-APPL-SN-738218 ..... c 37 N78-27425 *
US-PATENT-APPL-SN-738314 ..... c 12 N71-17573 *
US-PATENT-APPL-SN-738315 ..... c 14 N71-27334 *
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US-PATENT-APPL-SN-73834 ..... c 15 N72-23497 *
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US-PATENT-APPL-SN-749737 ..... c 35 N92-10182 * #
US-PATENT-APPL-SN-749819 ..... c 61 N92-17860 * #
US-PATENT-APPL-SN-749819 ..... c 61 N93-18858 *
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US-PATENT-APPL-SN-750655 ..... c 74 N78-32854 *
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US-PATENT-APPL-SN-750787 ..... c 10 N71-27126 *
US-PATENT-APPL-SN-750792 ..... c 37 N79-11402 *
US-PATENT-APPL-SN-750798 ..... c 85 N79-17747 *
US-PATENT-APPL-SN-751061 ..... c 18 N71-29040 *
US-PATENT-APPL-SN-751198 ..... c 03 N71-24718 *
US-PATENT-APPL-SN-751215 ..... c 22 N72-20597 *
US-PATENT-APPL-SN-751266 ..... c 15 N71-33518 *
US-PATENT-APPL-SN-751440 ..... c 36 N92-17899 * #
US-PATENT-APPL-SN-751440 ..... c 36 N93-18277 *
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US-PATENT-APPL-SN-751691 ..... c 37 N87-21332 *
US-PATENT-APPL-SN-751695 ..... c 71 N87-21652 *
US-PATENT-APPL-SN-752050 ..... c 07 N81-19115 *
US-PATENT-APPL-SN-752246 ..... c 27 N92-17676 * #
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US-PATENT-APPL-SN-752748 ..... c 35 N78-25391 *
US-PATENT-APPL-SN-752946 ..... c 15 N71-29032 *
US-PATENT-APPL-SN-752947 ..... c 31 N71-15689 *
US-PATENT-APPL-SN-753103 ..... c 37 N80-14397 *
US-PATENT-APPL-SN-753452 ..... c 07 N79-14096 *
US-PATENT-APPL-SN-753964 ..... c 24 N78-27180 *
US-PATENT-APPL-SN-753965 ..... c 54 N78-31735 *
US-PATENT-APPL-SN-753965 ..... c 54 N79-24651 *
US-PATENT-APPL-SN-753971 ..... c 71 N84-14873 *
US-PATENT-APPL-SN-753974 ..... c 16 N71-33410 *
US-PATENT-APPL-SN-753976 ..... c 54 N78-17675 *
US-PATENT-APPL-SN-753977 ..... c 74 N79-12890 *
US-PATENT-APPL-SN-753978 ..... c 54 N78-32721 *
US-PATENT-APPL-SN-754019 ..... c 09 N71-25999 *
US-PATENT-APPL-SN-754020 ..... c 12 N71-27332 *
US-PATENT-APPL-SN-754055 ..... c 07 N71-24624 *
US-PATENT-APPL-SN-754066 ..... c 39 N78-15512 *
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US-PATENT-APPL-SN-754362 ..... c 27 N87-21112 *
US-PATENT-APPL-SN-754707 ..... c 33 N87-22895 *
US-PATENT-APPL-SN-754828 ..... c 37 N92-33634 *
US-PATENT-APPL-SN-754875 ..... c 37 N92-23548 * #
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US-PATENT-APPL-SN-755288 ..... c 34 N88-23958 *
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US-PATENT-APPL-SN-755323 ..... c 74 N79-11865 *
US-PATENT-APPL-SN-755960 ..... c 31 N88-29052 *
US-PATENT-APPL-SN-756260 ..... c 23 N71-26722 *
US-PATENT-APPL-SN-756266 ..... c 15 N71-26145 *
US-PATENT-APPL-SN-756381 ..... c 06 N71-25929 *
US-PATENT-APPL-SN-756511 ..... c 09 N71-27016 *
US-PATENT-APPL-SN-756834 ..... c 15 N72-21466 *
US-PATENT-APPL-SN-757017 ..... c 35 N77-21393 *
US-PATENT-APPL-SN-757625 ..... c 09 N71-26701 *
US-PATENT-APPL-SN-757857 ..... c 10 N71-25900 *
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US-PATENT-APPL-SN-758540 ..... c 28 N73-27699 *
US-PATENT-APPL-SN-758721 ..... c 52 N79-18580 *
US-PATENT-APPL-SN-758942 ..... c 27 N71-14090 *
US-PATENT-APPL-SN-758977 ..... c 38 N92-29154 *
US-PATENT-APPL-SN-759220 ..... c 27 N78-17214 *
US-PATENT-APPL-SN-759256 ..... c 07 N71-27233 *
US-PATENT-APPL-SN-759367 ..... c 37 N92-29150 *
US-PATENT-APPL-SN-759457 ..... c 33 N71-16357 *
US-PATENT-APPL-SN-759460 ..... c 09 N71-24597 *
US-PATENT-APPL-SN-759665 ..... c 14 N71-18481 *
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US-PATENT-APPL-SN-760057 ..... c 44 N79-14527 *

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US-PATENT-APPL-SN-760389 ..... c 09 N71-24618 *
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US-PATENT-APPL-SN-760634 ..... c 37 N92-24243 * #
US-PATENT-APPL-SN-760670 ..... c 27 N92-11186 * #
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US-PATENT-APPL-SN-760799 ..... c 54 N87-29118 *
US-PATENT-APPL-SN-760809 ..... c 24 N78-24290 *
US-PATENT-APPL-SN-760810 ..... c 26 N78-32229 *
US-PATENT-APPL-SN-760819 ..... c 14 N70-34820 *
US-PATENT-APPL-SN-760927 ..... c 26 N71-25490 *
US-PATENT-APPL-SN-760928 ..... c 15 N71-28582 *
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US-PATENT-APPL-SN-761235 ..... c 27 N86-32569 *
US-PATENT-APPL-SN-761252 ..... c 27 N80-32515 *
US-PATENT-APPL-SN-761310 ..... c 25 N88-23846 *
US-PATENT-APPL-SN-761404 ..... c 09 N71-12526 *
US-PATENT-APPL-SN-761566 ..... c 61 N92-10331 * #
US-PATENT-APPL-SN-762362 ..... c 44 N79-24433 *
US-PATENT-APPL-SN-762363 ..... c 44 N79-24432 *
US-PATENT-APPL-SN-762438 ..... c 12 N71-17569 *
US-PATENT-APPL-SN-762935 ..... c 14 N71-29041 *
US-PATENT-APPL-SN-762936 ..... c 31 N69-27499 * #
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US-PATENT-APPL-SN-763706 ..... c 15 N71-24896 *
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US-PATENT-APPL-SN-763744 ..... c 10 N72-27246 *
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US-PATENT-APPL-SN-763868 ..... c 15 N71-24679 *
US-PATENT-APPL-SN-763869 ..... c 17 N71-16393 *
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US-PATENT-APPL-SN-764252 ..... c 14 N71-25901 *
US-PATENT-APPL-SN-764470 ..... c 16 N71-28554 *
US-PATENT-APPL-SN-764805 ..... c 37 N87-17036 *
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US-PATENT-APPL-SN-764823 ..... c 33 N78-17296 *
US-PATENT-APPL-SN-765069 ..... c 37 N93-14710 *
US-PATENT-APPL-SN-765070 ..... c 35 N92-33614 *
US-PATENT-APPL-SN-765123 ..... c 31 N71-15687 *
US-PATENT-APPL-SN-765138 ..... c 44 N79-10513 *
US-PATENT-APPL-SN-765139 ..... c 44 N78-31526 *
US-PATENT-APPL-SN-765165 ..... c 32 N79-11264 *
US-PATENT-APPL-SN-765167 ..... c 32 N79-10263 *
US-PATENT-APPL-SN-765264 ..... c 02 N71-29128 *
US-PATENT-APPL-SN-765273 ..... c 54 N92-21589 *
US-PATENT-APPL-SN-765615 ..... c 52 N92-11628 * #
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US-PATENT-APPL-SN-768795 ..... c 33 N79-10339 *
US-PATENT-APPL-SN-768942 ..... c 46 N74-23068 *
US-PATENT-APPL-SN-76899 ..... c 09 N72-22201 *
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US-PATENT-APPL-SN-770203 ..... c 05 N71-11195 *
US-PATENT-APPL-SN-770209 ..... c 08 N71-27057 *
US-PATENT-APPL-SN-770371 ..... c 15 N71-24599 *
US-PATENT-APPL-SN-770398 ..... c 06 N71-27254 *
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US-PATENT-APPL-SN-770417 ..... c 06 N73-33076 *
US-PATENT-APPL-SN-770425 ..... c 06 N72-20121 *
US-PATENT-APPL-SN-770509 ..... c 37 N92-30097 * #
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US-PATENT-APPL-SN-771523 ..... c 10 N71-18772 *
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US-PATENT-APPL-SN-771537 ..... c 37 N87-23981 *
US-PATENT-APPL-SN-771537 ..... c 35 N91-21494 *
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US-PATENT-APPL-SN-77169 ..... c 14 N72-21408 *
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US-PATENT-APPL-SN-771803 ..... c 07 N71-12391 *
US-PATENT-APPL-SN-771937 ..... c 10 N71-24862 *
US-PATENT-APPL-SN-772006 ..... c 17 N71-33408 *
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US-PATENT-APPL-SN-772167 ..... c 25 N79-22235 *
US-PATENT-APPL-SN-772168 ..... c 37 N79-20377 *
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US-PATENT-APPL-SN-772200 ..... c 37 N92-23377 * #
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US-PATENT-APPL-SN-77251 ..... c 25 N70-41628 *
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US-PATENT-APPL-SN-789045 ..... c 15 N72-22489 *
US-PATENT-APPL-SN-789266 ..... c 71 N88-24241 *
US-PATENT-APPL-SN-789278 ..... c 15 N71-24694 *
US-PATENT-APPL-SN-789567 ..... c 63 N92-29955 * #
US-PATENT-APPL-SN-789903 ..... c 07 N71-28429 *
US-PATENT-APPL-SN-790420 ..... c 09 N71-24595 *
US-PATENT-APPL-SN-790556 ..... c 08 N87-20999 *
US-PATENT-APPL-SN-790594 ..... c 36 N87-23961 *
US-PATENT-APPL-SN-790596 ..... c 35 N88-24927 *
US-PATENT-APPL-SN-790597 ..... c 37 N88-14359 *
US-PATENT-APPL-SN-790637 ..... c 44 N78-25529 *
US-PATENT-APPL-SN-790723 ..... c 32 N92-31257 * #
US-PATENT-APPL-SN-790730 ..... c 27 N92-29953 * #
US-PATENT-APPL-SN-790731 ..... c 32 N92-31150 * #
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US-PATENT-APPL-SN-791268 ..... c 33 N72-17947 *
US-PATENT-APPL-SN-791288 ..... c 28 N71-25213 *
US-PATENT-APPL-SN-791364 ..... c 14 N72-17328 *
US-PATENT-APPL-SN-791693 ..... c 05 N71-11203 *
US-PATENT-APPL-SN-791728 ..... c 37 N92-17677 * #
US-PATENT-APPL-SN-791759 ..... c 33 N92-17907 * #
US-PATENT-APPL-SN-791759 ..... c 33 N93-18278 *
US-PATENT-APPL-SN-791888 ..... c 23 N71-24725 *
US-PATENT-APPL-SN-792067 ..... c 24 N78-17150 *
US-PATENT-APPL-SN-792068 ..... c 51 N79-10693 *
US-PATENT-APPL-SN-792069 ..... c 37 N79-10418 *
US-PATENT-APPL-SN-792501 ..... c 61 N92-30543 * #
US-PATENT-APPL-SN-792623 ..... c 14 N72-23457 *
US-PATENT-APPL-SN-793006 ..... c 52 N86-19885 * #
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US-PATENT-APPL-SN-793823 ..... c 09 N71-33109 *
US-PATENT-APPL-SN-793974 ..... c 37 N92-34212 * #
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US-PATENT-APPL-SN-794968 ..... c 15 N71-27146 *

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US-PATENT-APPL-SN-795217 ..... c 33 N71-25351 *
US-PATENT-APPL-SN-795805 ..... c 08 N88-23808 *
US-PATENT-APPL-SN-795945 ..... c 37 N87-25573 *
US-PATENT-APPL-SN-796053 ..... c 37 N87-22985 *
US-PATENT-APPL-SN-796256 ..... c 52 N80-18691 *
US-PATENT-APPL-SN-796258 ..... c 52 N82-22875 *
US-PATENT-APPL-SN-796263 ..... c 27 N79-28307 *
US-PATENT-APPL-SN-796358 ..... c 05 N72-11085 *
US-PATENT-APPL-SN-796360 ..... c 15 N71-24696 *
US-PATENT-APPL-SN-796370 ..... c 10 N71-27366 *
US-PATENT-APPL-SN-796405 ..... c 14 N71-27185 *
US-PATENT-APPL-SN-796496 ..... c 37 N92-23378 * #
US-PATENT-APPL-SN-796496 ..... c 37 N93-18286 *
US-PATENT-APPL-SN-796685 ..... c 26 N72-28762 *
US-PATENT-APPL-SN-796690 ..... c 07 N72-21119 *
US-PATENT-APPL-SN-796691 ..... c 10 N71-26334 *
US-PATENT-APPL-SN-797056 ..... c 15 N71-25975 *
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US-PATENT-APPL-SN-797219 ..... c 03 N71-33409 *
US-PATENT-APPL-SN-797569 ..... c 74 N92-33022 *
US-PATENT-APPL-SN-797794 ..... c 07 N71-12396 *
US-PATENT-APPL-SN-797795 ..... c 07 N71-27191 *
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US-PATENT-APPL-SN-799023 ..... c 37 N79-10421 *
US-PATENT-APPL-SN-799024 ..... c 24 N78-17149 *
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US-PATENT-APPL-SN-799026 ..... c 44 N79-11468 *
US-PATENT-APPL-SN-799353 ..... c 09 N71-27232 *
US-PATENT-APPL-SN-799460 ..... c 37 N92-23544 * #
US-PATENT-APPL-SN-799571 ..... c 82 N92-30386 * #
US-PATENT-APPL-SN-799832 ..... c 33 N79-15245 *
US-PATENT-APPL-SN-799857 ..... c 61 N93-14882 *
US-PATENT-APPL-SN-800193 ..... c 37 N87-17038 *
US-PATENT-APPL-SN-800194 ..... c 76 N88-14835 *
US-PATENT-APPL-SN-800204 ..... c 06 N72-17094 *
US-PATENT-APPL-SN-80029 ..... c 14 N73-32320 *
US-PATENT-APPL-SN-80029 ..... c 74 N74-20008 *
US-PATENT-APPL-SN-800973 ..... c 16 N71-24832 *
US-PATENT-APPL-SN-801141 ..... c 39 N92-23549 * #
US-PATENT-APPL-SN-801290 ..... c 37 N79-18318 *
US-PATENT-APPL-SN-801290 ..... c 37 N80-26658 *
US-PATENT-APPL-SN-801290 ..... c 37 N82-19540 *
US-PATENT-APPL-SN-801312 ..... c 16 N71-15565 *
US-PATENT-APPL-SN-801336 ..... c 02 N71-13422 *
US-PATENT-APPL-SN-801432 ..... c 33 N78-32341 *
US-PATENT-APPL-SN-801452 ..... c 44 N79-11471 *
US-PATENT-APPL-SN-801660 ..... c 14 N71-26672 *
US-PATENT-APPL-SN-801867 ..... c 27 N93-19388 *
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US-PATENT-APPL-SN-802078 ..... c 32 N92-30103 * #
US-PATENT-APPL-SN-802769 ..... c 76 N86-25269 * #
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US-PATENT-APPL-SN-802818 ..... c 07 N71-29065 *
US-PATENT-APPL-SN-802820 ..... c 10 N71-13545 *
US-PATENT-APPL-SN-802948 ..... c 31 N71-33160 *
US-PATENT-APPL-SN-802972 ..... c 09 N71-26678 *
US-PATENT-APPL-SN-803268 ..... c 74 N93-14711 *
US-PATENT-APPL-SN-80368 ..... c 09 N73-20231 *
US-PATENT-APPL-SN-80369 ..... c 09 N72-22198 *
US-PATENT-APPL-SN-803822 ..... c 26 N79-22271 *
US-PATENT-APPL-SN-803822 ..... c 26 N80-32484 *
US-PATENT-APPL-SN-803823 ..... c 44 N79-11467 *
US-PATENT-APPL-SN-803828 ..... c 51 N92-24052 * #
US-PATENT-APPL-SN-804035 ..... c 35 N79-14348 *
US-PATENT-APPL-SN-804039 ..... c 31 N87-25491 *
US-PATENT-APPL-SN-804040 ..... c 32 N87-21206 *
US-PATENT-APPL-SN-804172 ..... c 28 N71-26781 *
US-PATENT-APPL-SN-804196 ..... c 33 N87-28831 *
US-PATENT-APPL-SN-805010 ..... c 35 N87-23944 *
US-PATENT-APPL-SN-805011 ..... c 54 N88-24163 *
US-PATENT-APPL-SN-805012 ..... c 27 N87-21111 *
US-PATENT-APPL-SN-805298 ..... c 10 N71-25899 *
US-PATENT-APPL-SN-805341 ..... c 74 N92-29832 * #
US-PATENT-APPL-SN-805405 ..... c 14 N71-27323 *
US-PATENT-APPL-SN-805406 ..... c 07 N71-24613 *
US-PATENT-APPL-SN-805549 ..... c 35 N79-16246 *
US-PATENT-APPL-SN-806149 ..... c 27 N71-16223 *
US-PATENT-APPL-SN-806226 ..... c 14 N71-27407 *
US-PATENT-APPL-SN-806440 ..... c 51 N79-10694 *
US-PATENT-APPL-SN-806572 ..... c 27 N87-25469 *
US-PATENT-APPL-SN-807597 ..... c 52 N80-16725 *
US-PATENT-APPL-SN-807703 ..... c 37 N78-27424 *
US-PATENT-APPL-SN-807762 ..... c 27 N78-31233 *
US-PATENT-APPL-SN-808192 ..... c 15 N71-27432 *
US-PATENT-APPL-SN-808193 ..... c 31 N71-26537 *
US-PATENT-APPL-SN-808302 ..... c 74 N92-30312 * #
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US-PATENT-APPL-SN-808576 ..... c 15 N71-27754 *
US-PATENT-APPL-SN-808577 ..... c 32 N71-25360 *
US-PATENT-APPL-SN-808822 ..... c 14 N73-16483 *
US-PATENT-APPL-SN-808981 ..... c 27 N92-25397 *
US-PATENT-APPL-SN-809822 ..... c 28 N71-27585 *
US-PATENT-APPL-SN-809851 ..... c 33 N87-23904 *
US-PATENT-APPL-SN-809890 ..... c 44 N79-17314 *
US-PATENT-APPL-SN-809890 ..... c 44 N80-14474 *
US-PATENT-APPL-SN-809975 ..... c 44 N87-17399 *
US-PATENT-APPL-SN-810575 ..... c 15 N71-27169 *
US-PATENT-APPL-SN-810576 ..... c 15 N73-12492 * #
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US-PATENT-APPL-SN-810579 ..... c 09 N72-22203 *
US-PATENT-APPL-SN-810579 ..... c 33 N74-22864 *
US-PATENT-APPL-SN-810815 ..... c 06 N72-22107 *
US-PATENT-APPL-SN-81095 ..... c 13 N72-25323 *
US-PATENT-APPL-SN-81096 ..... c 14 N73-14427 *
US-PATENT-APPL-SN-811037 ..... c 14 N71-26137 *
US-PATENT-APPL-SN-811038 ..... c 14 N72-20380 *
US-PATENT-APPL-SN-811309 ..... c 76 N90-20896 *
US-PATENT-APPL-SN-811401 ..... c 31 N81-25258 *
US-PATENT-APPL-SN-811509 ..... c 02 N70-33332 *
US-PATENT-APPL-SN-811542 ..... c 21 N71-24948 *
US-PATENT-APPL-SN-811815 ..... c 44 N78-31525 *
US-PATENT-APPL-SN-811892 ..... c 14 N71-27090 *
US-PATENT-APPL-SN-812084 ..... c 24 N92-17870 * #
US-PATENT-APPL-SN-812447 ..... c 71 N79-20827 *
US-PATENT-APPL-SN-812901 ..... c 74 N92-17864 * #
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US-PATENT-APPL-SN-812932 ..... c 37 N92-33616 *
US-PATENT-APPL-SN-812998 ..... c 28 N72-22769 *
US-PATENT-APPL-SN-812999 ..... c 05 N71-12345 *
US-PATENT-APPL-SN-813338 ..... c 18 N72-22566 *
US-PATENT-APPL-SN-813488 ..... c 15 N71-28467 *
US-PATENT-APPL-SN-813494 ..... c 08 N72-11171 *
US-PATENT-APPL-SN-813556 ..... c 63 N92-30314 * #
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US-PATENT-APPL-SN-814005 ..... c 76 N79-14906 *
US-PATENT-APPL-SN-814006 ..... c 37 N79-22475 *
US-PATENT-APPL-SN-814212 ..... c 14 N72-17326 *
US-PATENT-APPL-SN-814378 ..... c 25 N79-10162 *
US-PATENT-APPL-SN-815099 ..... c 60 N86-24224 * #
US-PATENT-APPL-SN-815103 ..... c 60 N89-26400 *
US-PATENT-APPL-SN-815106 ..... c 60 N88-24169 *
US-PATENT-APPL-SN-815366 ..... c 14 N71-28994 *
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US-PATENT-APPL-SN-815760 ..... c 15 N71-27068 *
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US-PATENT-APPL-SN-817415 ..... c 74 N79-20857 *
US-PATENT-APPL-SN-817481 ..... c 09 N72-11225 *
US-PATENT-APPL-SN-817482 ..... c 10 N71-27338 *
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US-PATENT-APPL-SN-819599 ..... c 15 N71-19214 *
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US-PATENT-APPL-SN-8203 ..... c 15 N70-33180 *
US-PATENT-APPL-SN-820431 ..... c 34 N92-29954 * #
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US-PATENT-APPL-SN-820498 ..... c 89 N79-10969 *
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US-PATENT-APPL-SN-820964 ..... c 15 N71-28740 *
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US-PATENT-APPL-SN-821586 ..... c 26 N71-14354 *
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US-PATENT-APPL-SN-82279 ..... c 03 N76-32140 *
US-PATENT-APPL-SN-82280 ..... c 09 N72-25262 *
US-PATENT-APPL-SN-823061 ..... c 44 N79-23481 *
US-PATENT-APPL-SN-823566 ..... c 74 N79-14891 *
US-PATENT-APPL-SN-823712 ..... c 44 N88-14492 *
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US-PATENT-APPL-SN-824024 ..... c 44 N79-18443 *
US-PATENT-APPL-SN-824042 ..... c 23 N71-29123 *
US-PATENT-APPL-SN-824126 ..... c 37 N93-14712 *
US-PATENT-APPL-SN-824628 ..... c 34 N78-17337 *
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US-PATENT-APPL-SN-826326 ..... c 46 N79-22679 *
US-PATENT-APPL-SN-82647 ..... c 28 N72-22772 *
US-PATENT-APPL-SN-82648 ..... c 12 N72-25292 *
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US-PATENT-APPL-SN-839963 ..... c 27 N79-33316 *
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US-PATENT-APPL-SN-840308 ..... c 07 N71-33613 *
US-PATENT-APPL-SN-840359 ..... c 23 N71-29125 *
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US-PATENT-APPL-SN-840870 ..... c 15 N71-26189 *
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US-PATENT-APPL-SN-841845 ..... c 14 N73-32317 *
US-PATENT-APPL-SN-84212 ..... c 27 N74-17283 *
US-PATENT-APPL-SN-842170 ..... c 11 N70-33278 *
US-PATENT-APPL-SN-842171 ..... c 11 N70-33329 *
US-PATENT-APPL-SN-842297 ..... c 33 N92-23464 * #
US-PATENT-APPL-SN-842300 ..... c 74 N92-23551 * #
US-PATENT-APPL-SN-842313 ..... c 27 N92-23461 * #
US-PATENT-APPL-SN-84289 ..... c 15 N73-14469 *
US-PATENT-APPL-SN-84290 ..... c 05 N73-20137 *
US-PATENT-APPL-SN-842956 ..... c 82 N92-23550 * #
US-PATENT-APPL-SN-843022 ..... c 11 N70-33287 *
US-PATENT-APPL-SN-843032 ..... c 28 N70-41818 *
US-PATENT-APPL-SN-843090 ..... c 27 N79-22300 *
US-PATENT-APPL-SN-843251 ..... c 03 N72-11062 *
US-PATENT-APPL-SN-843308 ..... c 32 N79-14268 *
US-PATENT-APPL-SN-843653 ..... c 34 N92-30024 * #
US-PATENT-APPL-SN-843861 ..... c 37 N92-23547 * #
US-PATENT-APPL-SN-844225 ..... c 05 N72-25120 *
US-PATENT-APPL-SN-844243 ..... c 37 N75-29426 *
US-PATENT-APPL-SN-844315 ..... c 35 N77-21392 *
US-PATENT-APPL-SN-844344 ..... c 24 N79-14156 *
US-PATENT-APPL-SN-844346 ..... c 44 N79-11472 *
US-PATENT-APPL-SN-844355 ..... c 03 N72-26031 *
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US-PATENT-APPL-SN-845973 ..... c 11 N71-24985 *
US-PATENT-APPL-SN-845974 ..... c 33 N71-25353 *
US-PATENT-APPL-SN-845990 ..... c 14 N71-27005 *
US-PATENT-APPL-SN-845991 ..... c 14 N71-29134 *
US-PATENT-APPL-SN-846427 ..... c 36 N88-14350 *
US-PATENT-APPL-SN-846428 ..... c 34 N87-21255 *
US-PATENT-APPL-SN-846429 ..... c 35 N86-29149 *
US-PATENT-APPL-SN-846430 ..... c 82 N87-29372 *
US-PATENT-APPL-SN-846439 ..... c 08 N87-23631 *
US-PATENT-APPL-SN-846462 ..... c 07 N87-16828 *
US-PATENT-APPL-SN-847023 ..... c 31 N70-37938 *
US-PATENT-APPL-SN-847027 ..... c 03 N70-33343 *
US-PATENT-APPL-SN-847276 ..... c 37 N81-32510 *
US-PATENT-APPL-SN-847277 ..... c 31 N79-28370 *
US-PATENT-APPL-SN-847278 ..... c 34 N79-20335 *
US-PATENT-APPL-SN-847596 ..... c 15 N70-10867 * #
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US-PATENT-APPL-SN-848419 ..... c 43 N80-23711 *
US-PATENT-APPL-SN-848420 ..... c 43 N79-25443 *
US-PATENT-APPL-SN-848421 ..... c 43 N80-14423 *
US-PATENT-APPL-SN-848428 ..... c 25 N82-21268 *
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US-PATENT-APPL-SN-848810 ..... c 07 N72-11148 *
US-PATENT-APPL-SN-848811 ..... c 10 N71-26142 *
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US-PATENT-APPL-SN-849274 ..... c 28 N79-14228 *
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US-PATENT-APPL-SN-849629 ..... c 37 N92-23553 * #
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US-PATENT-APPL-SN-8497 ..... c 14 N72-11363 *
US-PATENT-APPL-SN-8498 ..... c 05 N71-24729 *
US-PATENT-APPL-SN-850504 ..... c 52 N81-14613 *
US-PATENT-APPL-SN-850504 ..... c 52 N81-29764 *
US-PATENT-APPL-SN-850507 ..... c 25 N79-14169 *
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US-PATENT-APPL-SN-850587 ..... c 08 N72-21199 *
US-PATENT-APPL-SN-851298 ..... c 15 N72-12409 *
US-PATENT-APPL-SN-851394 ..... c 09 N71-24892 *
US-PATENT-APPL-SN-852131 ..... c 15 N71-24836 *
US-PATENT-APPL-SN-852461 ..... c 27 N89-16042 *
US-PATENT-APPL-SN-852466 ..... c 37 N87-24689 *
US-PATENT-APPL-SN-852467 ..... c 27 N87-24564 *
US-PATENT-APPL-SN-852468 ..... c 72 N87-21661 *
US-PATENT-APPL-SN-852620 ..... c 76 N93-15151 * #
US-PATENT-APPL-SN-852843 ..... c 09 N72-22195 *
US-PATENT-APPL-SN-853349 ..... c 35 N81-33448 *
US-PATENT-APPL-SN-853361 ..... c 37 N87-22977 *
US-PATENT-APPL-SN-853641 ..... c 33 N72-25913 *
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US-PATENT-APPL-SN-853679 ..... c 35 N79-14346 *
US-PATENT-APPL-SN-853705 ..... c 45 N79-12584 *
US-PATENT-APPL-SN-853716 ..... c 09 N71-24904 *
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US-PATENT-APPL-SN-853855 ..... c 17 N72-22530 *
US-PATENT-APPL-SN-853855 ..... c 17 N72-28535 *
US-PATENT-APPL-SN-853856 ..... c 16 N71-29131 *
US-PATENT-APPL-SN-853983 ..... c 14 N70-33254 *
US-PATENT-APPL-SN-853984 ..... c 21 N70-33181 *
US-PATENT-APPL-SN-854124 ..... c 33 N92-24246 * #
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US-PATENT-APPL-SN-855004 ..... c 24 N72-11595 *
US-PATENT-APPL-SN-855363 ..... c 74 N92-30029 * #
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US-PATENT-APPL-SN-855879 ..... c 27 N88-18725 *
US-PATENT-APPL-SN-855982 ..... c 31 N88-14223 *
US-PATENT-APPL-SN-855983 ..... c 03 N88-14083 *
US-PATENT-APPL-SN-856253 ..... c 24 N74-19769 *
US-PATENT-APPL-SN-856258 ..... c 05 N71-17599 *
US-PATENT-APPL-SN-856279 ..... c 07 N72-21118 *
US-PATENT-APPL-SN-856282 ..... c 08 N72-22166 *
US-PATENT-APPL-SN-856327 ..... c 05 N72-16015 *
US-PATENT-APPL-SN-856328 ..... c 14 N72-22441 *
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US-PATENT-APPL-SN-856460 ..... c 25 N79-24073 *
US-PATENT-APPL-SN-856461 ..... c 34 N79-12359 *
US-PATENT-APPL-SN-856462 ..... c 34 N80-24573 *
US-PATENT-APPL-SN-856462 ..... c 44 N81-24519 *
US-PATENT-APPL-SN-856464 ..... c 36 N79-14362 *
US-PATENT-APPL-SN-856465 ..... c 44 N80-14473 *
US-PATENT-APPL-SN-856466 ..... c 72 N80-14877 *
US-PATENT-APPL-SN-857241 ..... c 46 N74-23069 *
US-PATENT-APPL-SN-857445 ..... c 05 N71-24728 *
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US-PATENT-APPL-SN-858176 ..... c 33 N92-30389 * #
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US-PATENT-APPL-SN-858765 ..... c 33 N79-11313 *
US-PATENT-APPL-SN-858766 ..... c 27 N79-14213 *
US-PATENT-APPL-SN-858767 ..... c 32 N83-19968 *
US-PATENT-APPL-SN-858936 ..... c 07 N80-18039 *
US-PATENT-APPL-SN-858950 ..... c 35 N78-17359 *
US-PATENT-APPL-SN-86018 ..... c 23 N71-30292 *
US-PATENT-APPL-SN-860404 ..... c 37 N81-15364 *
US-PATENT-APPL-SN-860405 ..... c 26 N79-22271 *
US-PATENT-APPL-SN-860406 ..... c 24 N79-17916 *
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US-PATENT-APPL-SN-860493 ..... c 14 N72-16283 *
US-PATENT-APPL-SN-860635 ..... c 28 N72-17843 *
US-PATENT-APPL-SN-860750 ..... c 08 N72-22165 *
US-PATENT-APPL-SN-860751 ..... c 08 N72-18184 *
US-PATENT-APPL-SN-860781 ..... c 18 N72-22567 *
US-PATENT-APPL-SN-861152 ..... c 14 N70-33322 *
US-PATENT-APPL-SN-861390 ..... c 28 N79-28342 *
US-PATENT-APPL-SN-861391 ..... c 44 N79-12541 *
US-PATENT-APPL-SN-861392 ..... c 71 N79-23753 *
US-PATENT-APPL-SN-861396 ..... c 35 N79-14349 *
US-PATENT-APPL-SN-861649 ..... c 14 N72-17327 *
US-PATENT-APPL-SN-862113 ..... c 44 N92-24057 * #
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US-PATENT-APPL-SN-862880 ..... c 24 N79-31347 *
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US-PATENT-APPL-SN-862925 ..... c 24 N88-18628 *
US-PATENT-APPL-SN-862942 ..... c 33 N90-20320 *
US-PATENT-APPL-SN-862959 ..... c 33 N87-21232 *
US-PATENT-APPL-SN-863024 ..... c 46 N80-14603 *
US-PATENT-APPL-SN-863276 ..... c 16 N72-12440 *
US-PATENT-APPL-SN-863280 ..... c 24 N72-33681 *
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US-PATENT-APPL-SN-863770 ..... c 44 N79-18444 *
US-PATENT-APPL-SN-863773 ..... c 44 N79-26475 *
US-PATENT-APPL-SN-863883 ..... c 74 N92-30027 * #
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US-PATENT-APPL-SN-863967 ..... c 11 N71-27036 *
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US-PATENT-APPL-SN-864039 ..... c 15 N72-22483 *
US-PATENT-APPL-SN-864097 ..... c 07 N71-33606 *
US-PATENT-APPL-SN-86417 ..... c 07 N72-25171 *
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US-PATENT-APPL-SN-874733 ..... c 15 N71-26635 *
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US-PATENT-APPL-SN-876440 ..... c 51 N80-16714 *
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US-PATENT-APPL-SN-888434 ..... c 51 N83-27569 *
US-PATENT-APPL-SN-889003 ..... c 34 N93-11172 * #
US-PATENT-APPL-SN-889374 ..... c 08 N72-25207 *
US-PATENT-APPL-SN-889375 ..... c 10 N72-20222 *
US-PATENT-APPL-SN-889376 ..... c 18 N71-26285 *
US-PATENT-APPL-SN-889387 ..... c 09 N71-29035 *
US-PATENT-APPL-SN-889420 ..... c 14 N72-25413 *
US-PATENT-APPL-SN-889422 ..... c 09 N72-25259 *
US-PATENT-APPL-SN-889423 ..... c 10 N72-22236 *
US-PATENT-APPL-SN-889437 ..... c 15 N72-11392 *
US-PATENT-APPL-SN-889438 ..... c 15 N72-18477 *
US-PATENT-APPL-SN-889478 ..... c 08 N71-29138 *
US-PATENT-APPL-SN-889479 ..... c 14 N72-17325 *
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US-PATENT-APPL-SN-889554 ..... c 15 N72-20444 *
US-PATENT-APPL-SN-889555 ..... c 09 N72-17154 *
US-PATENT-APPL-SN-889556 ..... c 14 N72-18411 *
US-PATENT-APPL-SN-889557 ..... c 11 N72-17183 *
US-PATENT-APPL-SN-889558 ..... c 15 N72-22491 *
US-PATENT-APPL-SN-889572 ..... c 37 N93-12203 * #
US-PATENT-APPL-SN-889583 ..... c 15 N72-21464 *
US-PATENT-APPL-SN-889584 ..... c 08 N72-31226 *
US-PATENT-APPL-SN-889670 ..... c 39 N79-22537 *
US-PATENT-APPL-SN-889671 ..... c 24 N81-14000 *
US-PATENT-APPL-SN-889671 ..... c 24 N81-33235 *
US-PATENT-APPL-SN-889682 ..... c 15 N72-25447 *
US-PATENT-APPL-SN-890445 ..... c 18 N87-27713 *
US-PATENT-APPL-SN-890575 ..... c 09 N87-25334 *
US-PATENT-APPL-SN-890577 ..... c 27 N88-29040 *
US-PATENT-APPL-SN-890586 ..... c 32 N87-15390 * #
US-PATENT-APPL-SN-890683 ..... c 37 N88-23981 *
US-PATENT-APPL-SN-890982 ..... c 35 N88-29150 *
US-PATENT-APPL-SN-891243 ..... c 44 N79-25482 *
US-PATENT-APPL-SN-891244 ..... c 05 N79-24976 *
US-PATENT-APPL-SN-891356 ..... c 35 N80-18359 *
US-PATENT-APPL-SN-891358 ..... c 44 N80-14474 *
US-PATENT-APPL-SN-891370 ..... c 20 N79-20179 *
US-PATENT-APPL-SN-891372 ..... c 37 N79-22474 *
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US-PATENT-APPL-SN-891604 ..... c 60 N92-30541 * #
US-PATENT-APPL-SN-891872 ..... c 25 N82-24312 *
US-PATENT-APPL-SN-892053 ..... c 37 N92-30026 * #
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US-PATENT-APPL-SN-892072 ..... c 37 N92-30540 * #
US-PATENT-APPL-SN-89209 ..... c 09 N72-25248 *
US-PATENT-APPL-SN-89210 ..... c 07 N73-26119 *
US-PATENT-APPL-SN-89211 ..... c 14 N73-12446 *
US-PATENT-APPL-SN-89212 ..... c 08 N72-25208 *
US-PATENT-APPL-SN-893382 ..... c 34 N79-24285 *
US-PATENT-APPL-SN-893383 ..... c 31 N81-27323 *
US-PATENT-APPL-SN-893657 ..... c 51 N80-27067 *
US-PATENT-APPL-SN-893857 ..... c 24 N81-17170 *
US-PATENT-APPL-SN-893857 ..... c 24 N81-26179 *
US-PATENT-APPL-SN-893865 ..... c 37 N81-24443 *
US-PATENT-APPL-SN-893903 ..... c 60 N81-15706 *
US-PATENT-APPL-SN-894213 ..... c 37 N80-23655 *
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US-PATENT-APPL-SN-897828 ..... c 52 N81-29763 *
US-PATENT-APPL-SN-897829 ..... c 44 N79-25481 *
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US-PATENT-APPL-SN-897831 ..... c 44 N80-20808 *
US-PATENT-APPL-SN-897832 ..... c 43 N81-26509 *
US-PATENT-APPL-SN-897840 ..... c 31 N81-14137 *
US-PATENT-APPL-SN-898449 ..... c 31 N88-29052 *
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US-PATENT-APPL-SN-899536 ..... c 37 N92-30316 * #
US-PATENT-APPL-SN-899683 ..... c 18 N91-27199 *
US-PATENT-APPL-SN-899828 ..... c 32 N80-18252 *
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US-PATENT-APPL-SN-900841 ..... c 32 N82-31583 *
US-PATENT-APPL-SN-900842 ..... c 32 N79-24203 *
US-PATENT-APPL-SN-900843 ..... c 44 N80-20810 *
US-PATENT-APPL-SN-901055 ..... c 76 N80-32245 *
US-PATENT-APPL-SN-901113 ..... c 35 N87-28884 *
US-PATENT-APPL-SN-901114 ..... c 76 N88-14836 *
US-PATENT-APPL-SN-901496 ..... c 23 N87-23698 *
US-PATENT-APPL-SN-901626 ..... c 35 N92-29952 * #
US-PATENT-APPL-SN-902265 ..... c 37 N92-34242 * #
US-PATENT-APPL-SN-902266 ..... c 37 N92-30101 * #
US-PATENT-APPL-SN-903019 ..... c 46 N80-10709 *
US-PATENT-APPL-SN-903708 ..... c 35 N93-17041 * #
US-PATENT-APPL-SN-904128 ..... c 25 N88-23845 *
US-PATENT-APPL-SN-904132 ..... c 02 N89-14224 *
US-PATENT-APPL-SN-904134 ..... c 18 N88-26398 *
US-PATENT-APPL-SN-904513 ..... c 33 N88-14270 *
US-PATENT-APPL-SN-904550 ..... c 74 N92-30104 * #
US-PATENT-APPL-SN-904812 ..... c 37 N88-14359 *
US-PATENT-APPL-SN-90595 ..... c 03 N72-20031 *
US-PATENT-APPL-SN-906297 ..... c 44 N79-14529 *
US-PATENT-APPL-SN-906298 ..... c 76 N80-18951 *
US-PATENT-APPL-SN-906299 ..... c 27 N80-16158 *
US-PATENT-APPL-SN-907421 ..... c 37 N81-14318 *
US-PATENT-APPL-SN-907431 ..... c 37 N81-25370 *
US-PATENT-APPL-SN-907435 ..... c 27 N80-10358 *
US-PATENT-APPL-SN-907436 ..... c 37 N80-14398 *
US-PATENT-APPL-SN-907479 ..... c 27 N80-24438 *
US-PATENT-APPL-SN-908677 ..... c 63 N92-30085 * #
US-PATENT-APPL-SN-909100 ..... c 37 N79-28550 *
US-PATENT-APPL-SN-909235 ..... c 07 N81-19115 *
US-PATENT-APPL-SN-909501 ..... c 32 N92-30391 * #
US-PATENT-APPL-SN-909608 ..... c 07 N81-19116 *
US-PATENT-APPL-SN-910707 ..... c 32 N80-20448 *
US-PATENT-APPL-SN-910708 ..... c 06 N80-18036 *
US-PATENT-APPL-SN-910793 ..... c 44 N80-16452 *
US-PATENT-APPL-SN-910794 ..... c 14 N81-26161 *
US-PATENT-APPL-SN-910992 ..... c 52 N81-24711 *
US-PATENT-APPL-SN-91180 ..... c 14 N70-40240 *
US-PATENT-APPL-SN-911851 ..... c 29 N87-18679 * #
US-PATENT-APPL-SN-912276 ..... c 24 N81-29163 *
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US-PATENT-APPL-SN-912955 ..... c 37 N92-29765 * #
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US-PATENT-APPL-SN-912981 ..... c 76 N92-30102 * #
US-PATENT-APPL-SN-913432 ..... c 18 N88-23828 *
US-PATENT-APPL-SN-913433 ..... c 33 N87-15413 * #
US-PATENT-APPL-SN-913433 ..... c 74 N93-13711 *
US-PATENT-APPL-SN-913446 ..... c 37 N87-15465 * #
US-PATENT-APPL-SN-914260 ..... c 44 N79-26474 *
US-PATENT-APPL-SN-914905 ..... c 09 N92-34213 * #
US-PATENT-APPL-SN-915050 ..... c 44 N81-12542 *
US-PATENT-APPL-SN-91642 ..... c 14 N72-31446 *
US-PATENT-APPL-SN-916654 ..... c 07 N81-29129 *
US-PATENT-APPL-SN-916655 ..... c 44 N80-14472 *
US-PATENT-APPL-SN-917125 ..... c 35 N89-12048 *
US-PATENT-APPL-SN-917554 ..... c 37 N92-34205 * #
US-PATENT-APPL-SN-918533 ..... c 32 N79-23310 *
US-PATENT-APPL-SN-918534 ..... c 33 N80-32650 *
US-PATENT-APPL-SN-918535 ..... c 35 N80-18357 *
US-PATENT-APPL-SN-918537 ..... c 26 N80-14229 *
US-PATENT-APPL-SN-918705 ..... c 52 N82-33996 *
US-PATENT-APPL-SN-920878 ..... c 24 N78-27184 * #
US-PATENT-APPL-SN-920879 ..... c 44 N79-31752 *
US-PATENT-APPL-SN-921192 ..... c 37 N93-11177 * #
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US-PATENT-APPL-SN-921626 ..... c 25 N80-23383 *
US-PATENT-APPL-SN-921627 ..... c 33 N80-14332 *
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US-PATENT-APPL-SN-924213 ..... c 35 N93-14841 * #
US-PATENT-APPL-SN-924297 ..... c 71 N90-12289 *
US-PATENT-APPL-SN-924398 ..... c 14 N87-25344 *
US-PATENT-APPL-SN-924399 ..... c 76 N88-24545 *
US-PATENT-APPL-SN-924467 ..... c 23 N88-24692 *
US-PATENT-APPL-SN-924470 ..... c 23 N90-19300 *
US-PATENT-APPL-SN-924472 ..... c 32 N87-18692 * #
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US-PATENT-APPL-SN-924474 ..... c 23 N91-17141 *
US-PATENT-APPL-SN-924689 ..... c 24 N92-34214 * #
US-PATENT-APPL-SN-925189 ..... c 76 N88-24544 *
US-PATENT-APPL-SN-9251 ..... c 03 N70-34646 * #
US-PATENT-APPL-SN-927972 ..... c 74 N89-14078 *
US-PATENT-APPL-SN-927987 ..... c 62 N90-19776 *
US-PATENT-APPL-SN-927992 ..... c 37 N87-18818 * #
US-PATENT-APPL-SN-928128 ..... c 44 N80-18551 *
US-PATENT-APPL-SN-928129 ..... c 35 N80-14371 *
US-PATENT-APPL-SN-928130 ..... c 35 N80-20559 *
US-PATENT-APPL-SN-928131 ..... c 09 N79-31228 *
US-PATENT-APPL-SN-928133 ..... c 44 N80-18550 *
US-PATENT-APPL-SN-928137 ..... c 52 N80-23969 *
US-PATENT-APPL-SN-928865 ..... c 35 N93-12205 * #
US-PATENT-APPL-SN-929083 ..... c 36 N80-16321 *
US-PATENT-APPL-SN-929084 ..... c 37 N81-19455 *
US-PATENT-APPL-SN-929086 ..... c 24 N81-13999 *
US-PATENT-APPL-SN-929087 ..... c 35 N80-28687 *
US-PATENT-APPL-SN-929088 ..... c 74 N80-24149 *
US-PATENT-APPL-SN-929552 ..... c 37 N93-14843 * #
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US-PATENT-APPL-SN-929556 ..... c 54 N92-34210 * #
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US-PATENT-APPL-SN-929865 ..... c 18 N89-12621 *
US-PATENT-APPL-SN-929869 ..... c 35 N87-23941 * #
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US-PATENT-APPL-SN-929875 ..... c 18 N88-28958 *
US-PATENT-APPL-SN-929875 ..... c 18 N89-28554 *
US-PATENT-APPL-SN-929876 ..... c 32 N91-14523 *
US-PATENT-APPL-SN-930217 ..... c 25 N88-24732 *
US-PATENT-APPL-SN-931090 ..... c 37 N80-26658 *
US-PATENT-APPL-SN-931090 ..... c 37 N82-19540 *
US-PATENT-APPL-SN-931217 ..... c 37 N80-32716 *
US-PATENT-APPL-SN-931218 ..... c 20 N80-18097 *
US-PATENT-APPL-SN-931468 ..... c 37 N93-14842 * #
US-PATENT-APPL-SN-931942 ..... c 51 N93-17049 * #
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US-PATENT-APPL-SN-93329 ..... c 09 N73-26195 *
US-PATENT-APPL-SN-933941 ..... c 33 N89-14385 *
US-PATENT-APPL-SN-933961 ..... c 76 N87-29360 *
US-PATENT-APPL-SN-933962 ..... c 25 N88-29002 *
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US-PATENT-APPL-SN-934576 ..... c 35 N80-18358 *
US-PATENT-APPL-SN-935827 ..... c 37 N80-18393 *
US-PATENT-APPL-SN-936376 ..... c 76 N93-17043 * #
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US-PATENT-APPL-SN-936474 ..... c 37 N93-17080 * #
US-PATENT-APPL-SN-93714 ..... c 44 N82-28780 *
US-PATENT-APPL-SN-937325 ..... c 54 N93-17087 * #
US-PATENT-APPL-SN-937335 ..... c 63 N93-11174 * #
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US-PATENT-APPL-SN-938298 ..... c 33 N81-17348 *
US-PATENT-APPL-SN-938299 ..... c 33 N81-19389 *
US-PATENT-APPL-SN-938300 ..... c 37 N80-23654 *
US-PATENT-APPL-SN-938577 ..... c 37 N93-18288 *
US-PATENT-APPL-SN-938579 ..... c 76 N80-32244 *
US-PATENT-APPL-SN-938581 ..... c 04 N80-32359 *
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US-PATENT-APPL-SN-940420 ..... c 35 N93-17077 * #
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US-PATENT-APPL-SN-940689 ..... c 35 N80-28686 *
US-PATENT-APPL-SN-940970 ..... c 72 N80-27163 *
US-PATENT-APPL-SN-941335 ..... c 63 N92-34240 * #
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US-PATENT-APPL-SN-945043 ..... c 33 N81-33403 *
US-PATENT-APPL-SN-945044 ..... c 54 N81-26718 *
US-PATENT-APPL-SN-945436 ..... c 46 N80-24906 *
US-PATENT-APPL-SN-946990 ..... c 28 N80-23471 *
US-PATENT-APPL-SN-946991 ..... c 31 N81-27324 *
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US-PATENT-APPL-SN-974474 ..... c 25 N81-19242 *
US-PATENT-APPL-SN-974475 ..... c 33 N81-17349 *
US-PATENT-APPL-SN-974476 ..... c 52 N81-14613 *
US-PATENT-APPL-SN-97472 ..... c 14 N73-28487 *
US-PATENT-APPL-SN-977468 ..... c 37 N93-17057 * #
US-PATENT-APPL-SN-977469 ..... c 37 N93-19049 * #
US-PATENT-APPL-SN-97829 ..... c 06 N73-13129 *
US-PATENT-APPL-SN-982350 ..... c 23 N93-17412 * #
US-PATENT-APPL-SN-982535 ..... c 27 N93-17062 * #
US-PATENT-APPL-SN-98517 ..... c 09 N72-25250 *
US-PATENT-APPL-SN-98640 ..... c 09 N72-25253 *
US-PATENT-APPL-SN-986631 ..... c 52 N93-17058 * #
US-PATENT-APPL-SN-98772 ..... c 08 N73-12176 *
US-PATENT-APPL-SN-98773 ..... c 15 N72-22486 *
US-PATENT-APPL-SN-98774 ..... c 14 N73-19419 *
US-PATENT-APPL-SN-98798 ..... c 09 N73-13209 *
US-PATENT-APPL-SN-988077 ..... c 35 N93-19328 * #
US-PATENT-APPL-SN-988082 ..... c 36 N93-19373 * #
US-PATENT-APPL-SN-988084 ..... c 39 N93-19329 * #
US-PATENT-APPL-SN-991003 ..... c 25 N93-19025 * #
US-PATENT-APPL-SN-991403 ..... c 35 N93-17060 * #

US-PATENT-APPL-SN-99174 ..... c 14 N72-33377 *
US-PATENT-APPL-SN-99175 ..... c 09 N72-25258 *
US-PATENT-APPL-SN-99198 ..... c 31 N73-32749 *
US-PATENT-APPL-SN-99201 ..... c 15 N73-25512 *
US-PATENT-APPL-SN-99201 ..... c 37 N74-20063 *
US-PATENT-APPL-SN-993743 ..... c 27 N93-19332 * #
US-PATENT-APPL-SN-994593 ..... c 74 N93-19374 * #
US-PATENT-APPL-SN-99524 ..... c 06 N72-27144 *
US-PATENT-APPL-SN-996263 ..... c 51 N93-19037 * #
US-PATENT-APPL-SN-998062 ..... c 37 N93-19331 * #
US-PATENT-APPL-SN-99901 ..... c 37 N74-10474 *
US-PATENT-APPL-SN-99903 ..... c 11 N73-12265 *
US-PATENT-APPL-SN-999695 ..... c 33 N93-19051 * #
US-PATENT-APPL-SN-999696 ..... c 35 N93-19492 * #

US-PATENT-APPL-156-241 ..... c 31 N92-33020 *
US-PATENT-APPL-156-285 ..... c 31 N92-33020 *
US-PATENT-APPL-156-293 ..... c 31 N92-33020 *
US-PATENT-APPL-264-272.15 ..... c 31 N92-33020 *
US-PATENT-APPL-29-856 ..... c 31 N92-33020 *

US-PATENT-CASE-165-104.25 .... c 34 N87-28867 *
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US-PATENT-CASE-165-13 ..... c 34 N87-28867 *
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US-PATENT-CASE-165-32 ..... c 34 N87-28867 *
US-PATENT-CASE-165-41 ..... c 34 N87-28867 *
US-PATENT-CASE-179-146-R ..... c 05 N83-27975 *
US-PATENT-CASE-179-179 ..... c 05 N83-27975 *
US-PATENT-CASE-244-121 ..... c 05 N83-19737 *
US-PATENT-CASE-244-129.4 ..... c 05 N83-19737 *
US-PATENT-CASE-292-254 ..... c 05 N83-19737 *
US-PATENT-CASE-356-129 ..... c 36 N83-29680 *
US-PATENT-CASE-367-906 ..... c 05 N83-27975 *
US-PATENT-CASE-368-10 ..... c 35 N83-29651 *
US-PATENT-CASE-368-118 ..... c 35 N83-29651 *
US-PATENT-CASE-368-119 ..... c 35 N83-29651 *
US-PATENT-CASE-368-120 ..... c 35 N83-29651 *
US-PATENT-CASE-368-6 ..... c 35 N83-29651 *
US-PATENT-CASE-368-9 ..... c 35 N83-29651 *

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US-PATENT-CLAS-361-90 ..... c 33 N83-34190 *

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US-PATENT-CLASS-D12-76 ..... c 05 N75-25914 *
US-PATENT-CLASS-D71-1 ..... c 05 N74-10907 *

US-PATENT-CLASS-073-801 ..... c 26 N90-21170 *
US-PATENT-CLASS-100-299 ..... c 15 N72-20446 *
US-PATENT-CLASS-100-8 ..... c 33 N74-17928 *
US-PATENT-CLASS-101-395 ..... c 35 N84-22930 *
US-PATENT-CLASS-101-407BP .. c 37 N84-12491 *
US-PATENT-CLASS-102-101 ..... c 28 N71-26779 *
US-PATENT-CLASS-102-103 ..... c 20 N78-32179 *
US-PATENT-CLASS-102-105 ..... c 33 N72-17947 *
US-PATENT-CLASS-102-105 ..... c 33 N72-25911 *
US-PATENT-CLASS-102-105 ..... c 33 N73-25952 *
US-PATENT-CLASS-102-105 ..... c 27 N74-27037 *
US-PATENT-CLASS-102-105 ..... c 24 N79-25142 *
US-PATENT-CLASS-102-200 ..... c 25 N91-32196 *
US-PATENT-CLASS-102-202.14 .. c 28 N93-18274 *
US-PATENT-CLASS-102-21.6 ..... c 46 N79-22679 *
US-PATENT-CLASS-102-262 ..... c 03 N91-15142 *
US-PATENT-CLASS-102-275.11 .. c 28 N93-18274 *
US-PATENT-CLASS-102-28EB .... c 28 N74-27425 *
US-PATENT-CLASS-102-28R ..... c 28 N79-11231 *
US-PATENT-CLASS-102-289 ..... c 27 N82-24339 *
US-PATENT-CLASS-102-34.4 ..... c 07 N72-25171 *
US-PATENT-CLASS-102-378 ..... c 01 N83-35992 *
US-PATENT-CLASS-102-378 ..... c 37 N90-21390 *
US-PATENT-CLASS-102-378 ..... c 37 N91-32498 *
US-PATENT-CLASS-102-39 ..... c 20 N78-24275 *
US-PATENT-CLASS-102-49.3 ..... c 20 N77-17143 *
US-PATENT-CLASS-102-49.5 ..... c 31 N71-15687 *
US-PATENT-CLASS-102-49.5 ..... c 15 N71-22874 *
US-PATENT-CLASS-102-49.5 ..... c 31 N71-23008 *
US-PATENT-CLASS-102-49.5 ..... c 31 N73-14853 *
US-PATENT-CLASS-102-49.7 ..... c 28 N73-24784 *
US-PATENT-CLASS-102-49.7 ..... c 20 N78-24275 *
US-PATENT-CLASS-102-49.8 ..... c 28 N73-24784 *
US-PATENT-CLASS-102-49 ..... c 33 N70-36846 *
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US-PATENT-CLASS-102-49 ..... c 03 N70-39930 *
US-PATENT-CLASS-102-49 ..... c 15 N70-41679 *
US-PATENT-CLASS-102-49 ..... c 28 N70-41967 *
US-PATENT-CLASS-102-49 ..... c 31 N71-10582 *
US-PATENT-CLASS-102-49 ..... c 15 N71-13789 *
US-PATENT-CLASS-102-49 ..... c 31 N71-15692 *
US-PATENT-CLASS-102-49 ..... c 31 N71-17730 *
US-PATENT-CLASS-102-504 ..... c 15 N82-24272 *
US-PATENT-CLASS-102-50 ..... c 31 N71-24750 *
US-PATENT-CLASS-102-56R ..... c 02 N81-14968 *
US-PATENT-CLASS-102-70.2A ... c 28 N74-27425 *
US-PATENT-CLASS-102-70.2R ... c 19 N74-15089 *

US-PATENT-CLASS-102-70.2 ..... c 09 N71-18599 *
US-PATENT-CLASS-102-70-2R ... c 28 N74-27425 *
US-PATENT-CLASS-102-70R ..... c 20 N78-24275 *
US-PATENT-CLASS-102-90 ..... c 15 N74-27360 *
US-PATENT-CLASS-102-92.1 ..... c 02 N81-14968 *
US-PATENT-CLASS-102-95 ..... c 11 N73-32152 *
US-PATENT-CLASS-102-99 ..... c 28 N77-10213 *
US-PATENT-CLASS-103.5R ..... c 04 N73-27052 *
US-PATENT-CLASS-103-1 ..... c 26 N71-21824 *
US-PATENT-CLASS-103-37 ..... c 28 N71-14058 *
US-PATENT-CLASS-103-48 ..... c 15 N71-24042 *
US-PATENT-CLASS-104-DIG.4 .... c 44 N84-23019 *
US-PATENT-CLASS-104-138R .... c 85 N74-34672 *
US-PATENT-CLASS-104-139 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-172.1 .... c 18 N88-26398 *
US-PATENT-CLASS-104-1 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-23FS .... c 85 N74-34672 *
US-PATENT-CLASS-104-281 ..... c 37 N85-20337 *
US-PATENT-CLASS-104-282 ..... c 37 N83-32067 *
US-PATENT-CLASS-104-284 ..... c 37 N85-20337 *
US-PATENT-CLASS-104-290 ..... c 37 N83-32067 *
US-PATENT-CLASS-104-35 ..... c 18 N88-26398 *
US-PATENT-CLASS-104-49 ..... c 18 N88-26398 *
US-PATENT-CLASS-104-83 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-1A ..... c 37 N82-21587 *
US-PATENT-CLASS-105-124 ..... c 37 N91-32514 *
US-PATENT-CLASS-105-141 ..... c 37 N91-32514 *
US-PATENT-CLASS-105-142 ..... c 37 N91-32514 *
US-PATENT-CLASS-105-161 ..... c 43 N79-26439 *
US-PATENT-CLASS-105-171 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-180 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-2R ..... c 85 N82-33288 *
US-PATENT-CLASS-105-218R .... c 37 N82-21587 *
US-PATENT-CLASS-105-87 ..... c 37 N91-32514 *
US-PATENT-CLASS-106-1.2 ..... c 44 N79-31752 *
US-PATENT-CLASS-106-13 ..... c 23 N75-14834 *
US-PATENT-CLASS-106-15FP .... c 27 N74-27037 *
US-PATENT-CLASS-106-15FP .... c 27 N76-24405 *
US-PATENT-CLASS-106-15FP .... c 24 N78-15180 *
US-PATENT-CLASS-106-15R ..... c 23 N75-14834 *
US-PATENT-CLASS-106-15 ..... c 18 N71-14014 *
US-PATENT-CLASS-106-15 ..... c 18 N71-15469 *
US-PATENT-CLASS-106-18.16 .... c 27 N82-16238 *
US-PATENT-CLASS-106-18.24 .... c 27 N82-16238 *
US-PATENT-CLASS-106-197 ..... c 25 N82-29370 *
US-PATENT-CLASS-106-1 ..... c 44 N79-31752 *
US-PATENT-CLASS-106-209 ..... c 05 N72-25120 *
US-PATENT-CLASS-106-286 ..... c 18 N72-22566 *
US-PATENT-CLASS-106-287SB .. c 23 N75-14834 *
US-PATENT-CLASS-106-288B .... c 18 N72-22566 *
US-PATENT-CLASS-106-292 ..... c 18 N72-17532 *
US-PATENT-CLASS-106-292 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-296 ..... c 18 N71-26772 *
US-PATENT-CLASS-106-296 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-296 ..... c 24 N79-14156 *
US-PATENT-CLASS-106-299 ..... c 18 N72-17532 *
US-PATENT-CLASS-106-299 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-306 ..... c 24 N76-24363 *
US-PATENT-CLASS-106-39.5 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-39R ..... c 18 N73-14584 *
US-PATENT-CLASS-106-39 ..... c 26 N72-28762 *
US-PATENT-CLASS-106-40 ..... c 18 N71-22998 *
US-PATENT-CLASS-106-43 ..... c 27 N78-17206 *
US-PATENT-CLASS-106-43 ..... c 37 N81-25371 *
US-PATENT-CLASS-106-46 ..... c 26 N72-28762 *
US-PATENT-CLASS-106-48 ..... c 27 N75-27160 *
US-PATENT-CLASS-106-48 ..... c 27 N78-32260 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29452 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29454 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29455 *
US-PATENT-CLASS-106-52 ..... c 37 N74-21063 *
US-PATENT-CLASS-106-52 ..... c 27 N82-29451 *
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US-PATENT-CLASS-106-52 ..... c 27 N82-29455 *
US-PATENT-CLASS-106-54 ..... c 27 N75-27160 *
US-PATENT-CLASS-106-54 ..... c 27 N76-22377 *
US-PATENT-CLASS-106-54 ..... c 27 N76-23426 *
US-PATENT-CLASS-106-54 ..... c 27 N78-32260 *
US-PATENT-CLASS-106-54 ..... c 27 N82-29452 *
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US-PATENT-CLASS-106-55 ..... c 18 N73-14584 *
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US-PATENT-CLASS-106-63 ..... c 18 N73-14584 *
US-PATENT-CLASS-106-65 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-73.5 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-74 ..... c 18 N69-39979 * #
US-PATENT-CLASS-106-74 ..... c 24 N79-31347 *
US-PATENT-CLASS-106-84 ..... c 18 N71-24183 *
US-PATENT-CLASS-106-84 ..... c 18 N71-24184 *
US-PATENT-CLASS-106-84 ..... c 18 N72-22566 *
US-PATENT-CLASS-106-84 ..... c 18 N72-23581 *
US-PATENT-CLASS-106-84 ..... c 24 N79-14156 *
US-PATENT-CLASS-106-84 ..... c 24 N79-31347 *
US-PATENT-CLASS-106-88 ..... c 18 N71-16124 *
US-PATENT-CLASS-108-136 ..... c 09 N75-12968 *

US-PATENT-CLASS-108-3 ..... c 54 N88-24163 *
US-PATENT-CLASS-108-7 ..... c 54 N88-24163 *
US-PATENT-CLASS-109-49.5 ..... c 31 N81-19343 *
US-PATENT-CLASS-109-58.5 ..... c 31 N81-19343 *
US-PATENT-CLASS-110-165R .... c 31 N91-15423 *
US-PATENT-CLASS-110-171 ..... c 31 N91-15423 *
US-PATENT-CLASS-110-186 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-218 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-229 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-232 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-234 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-245 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-255 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-259 ..... c 31 N91-15423 *
US-PATENT-CLASS-110-262 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-263 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-265 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-266 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-343 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-347 ..... c 31 N81-15154 *
US-PATENT-CLASS-112-402 ..... c 18 N71-26285 *
US-PATENT-CLASS-112-440 ..... c 24 N91-31236 *
US-PATENT-CLASS-113-116 ..... c 15 N71-15597 *
US-PATENT-CLASS-114-112 ..... c 18 N90-19278 *
US-PATENT-CLASS-114-122 ..... c 02 N73-26006 *
US-PATENT-CLASS-114-122 ..... c 34 N91-25380 *
US-PATENT-CLASS-114-125 ..... c 34 N91-25380 *
US-PATENT-CLASS-114-16.6 ..... c 37 N76-22540 *
US-PATENT-CLASS-114-201R .... c 18 N90-19278 *
US-PATENT-CLASS-114-66.5 ..... c 12 N70-33305 *
US-PATENT-CLASS-114-67A ..... c 34 N91-14562 *
US-PATENT-CLASS-114-67R ..... c 02 N88-14071 *
US-PATENT-CLASS-115-103.5 .... c 51 N75-13502 *
US-PATENT-CLASS-116-DIG.43 . c 02 N89-12551 *
US-PATENT-CLASS-116-114.5 .... c 35 N75-25122 *
US-PATENT-CLASS-116-114AH .. c 14 N72-25411 *
US-PATENT-CLASS-116-114AH .. c 35 N75-33367 *
US-PATENT-CLASS-116-117 ..... c 14 N70-42074 *
US-PATENT-CLASS-116-201 ..... c 02 N92-21588 *
US-PATENT-CLASS-116-207 ..... c 02 N92-21588 *
US-PATENT-CLASS-116-265 ..... c 02 N89-12551 *
US-PATENT-CLASS-117-104 ..... c 18 N71-26100 *
US-PATENT-CLASS-117-105.2 .... c 37 N74-11301 *
US-PATENT-CLASS-117-105.2 .... c 24 N75-33181 *
US-PATENT-CLASS-117-105.5 .... c 15 N73-32360 *
US-PATENT-CLASS-117-105 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-106A .... c 70 N74-13436 *
US-PATENT-CLASS-117-106A .... c 37 N75-15992 *
US-PATENT-CLASS-117-106A .... c 25 N75-26043 *
US-PATENT-CLASS-117-106 ..... c 33 N71-14032 *
US-PATENT-CLASS-117-107.2 .... c 25 N75-26043 *
US-PATENT-CLASS-117-107 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-107 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-119 ..... c 18 N71-16105 *
US-PATENT-CLASS-117-119 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-124C .... c 15 N72-25452 *
US-PATENT-CLASS-117-124F ..... c 23 N75-14834 *
US-PATENT-CLASS-117-126GM . c 37 N75-26371 *
US-PATENT-CLASS-117-126GR . c 27 N74-23125 *
US-PATENT-CLASS-117-126R .... c 37 N75-26371 *
US-PATENT-CLASS-117-129 ..... c 37 N74-21063 *
US-PATENT-CLASS-117-129 ..... c 27 N75-27160 *
US-PATENT-CLASS-117-130R .... c 15 N73-32360 *
US-PATENT-CLASS-117-132B .... c 27 N74-23125 *
US-PATENT-CLASS-117-132 ..... c 06 N72-25150 *
US-PATENT-CLASS-117-135.5 .... c 23 N75-14834 *
US-PATENT-CLASS-117-138.8R . c 15 N73-32360 *
US-PATENT-CLASS-117-151 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-152 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-16R ..... c 15 N72-25452 *
US-PATENT-CLASS-117-160R .... c 15 N73-32360 *
US-PATENT-CLASS-117-161P .... c 06 N73-27980 *
US-PATENT-CLASS-117-161UA .. c 25 N75-12087 *
US-PATENT-CLASS-117-161UN . c 06 N73-27980 *
US-PATENT-CLASS-117-161UN . c 27 N74-23125 *
US-PATENT-CLASS-117-161UN . c 25 N75-12087 *
US-PATENT-CLASS-117-161UZ .. c 25 N75-12087 *
US-PATENT-CLASS-117-161 ..... c 06 N72-25150 *
US-PATENT-CLASS-117-2R ..... c 32 N74-27612 *
US-PATENT-CLASS-117-200 ..... c 09 N72-25259 *
US-PATENT-CLASS-117-201 ..... c 15 N69-21460 * #
US-PATENT-CLASS-117-201 ..... c 18 N71-16046 *
US-PATENT-CLASS-117-201 ..... c 03 N72-24037 *
US-PATENT-CLASS-117-201 ..... c 25 N75-26043 *
US-PATENT-CLASS-117-211 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-212 ..... c 09 N71-20705 *
US-PATENT-CLASS-117-212 ..... c 15 N71-29032 *
US-PATENT-CLASS-117-212 ..... c 26 N72-28762 *
US-PATENT-CLASS-117-217 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-217 ..... c 26 N72-28762 *
US-PATENT-CLASS-117-21 ..... c 18 N69-39895 * #
US-PATENT-CLASS-117-224 ..... c 15 N71-28582 *
US-PATENT-CLASS-117-228 ..... c 06 N73-27980 *
US-PATENT-CLASS-117-234 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-235 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-237 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-239 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-240 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-33.3 ..... c 70 N74-13436 *
US-PATENT-CLASS-117-35R ..... c 06 N73-13128 *
US-PATENT-CLASS-117-35 ..... c 32 N79-19186 *
US-PATENT-CLASS-117-37 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-38 ..... c 24 N75-33181 *
US-PATENT-CLASS-117-43 ..... c 31 N79-21227 *
US-PATENT-CLASS-117-45 ..... c 74 N74-20008 *
US-PATENT-CLASS-117-46FS .... c 24 N75-33181 *
US-PATENT-CLASS-117-46 ..... c 15 N71-16077 *
US-PATENT-CLASS-117-47R ..... c 15 N72-25452 *
US-PATENT-CLASS-117-50 ..... c 15 N71-15610 *
US-PATENT-CLASS-117-62 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-62 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-65.2 ..... c 18 N71-10772 *
US-PATENT-CLASS-117-66 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-69 ..... c 18 N70-36400 *
US-PATENT-CLASS-117-69 ..... c 15 N71-16075 *
US-PATENT-CLASS-117-6 ..... c 14 N71-20461 *
US-PATENT-CLASS-117-6 ..... c 27 N81-15104 *
US-PATENT-CLASS-117-72 ..... c 35 N75-25122 *
US-PATENT-CLASS-117-8.5 ..... c 24 N75-33181 *
US-PATENT-CLASS-117-93.1GD c 25 N75-12087 *
US-PATENT-CLASS-117-93.16D . c 15 N72-25447 *
US-PATENT-CLASS-117-93.3 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-93.3 ..... c 37 N75-15992 *
US-PATENT-CLASS-117-95 ..... c 24 N74-19769 *
US-PATENT-CLASS-117-95 ..... c 36 N75-15029 *
US-PATENT-CLASS-117-97 ..... c 36 N75-15029 *
US-PATENT-CLASS-118-DIG.5 .... c 24 N92-10070 *
US-PATENT-CLASS-118-11 ..... c 15 N71-17647 *
US-PATENT-CLASS-118-300 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-308 ..... c 17 N71-24911 *
US-PATENT-CLASS-118-313 ..... c 51 N77-27677 *
US-PATENT-CLASS-118-320 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-405 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-407 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-416 ..... c 24 N92-16025 *
US-PATENT-CLASS-118-419 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-423 ..... c 37 N82-12441 *
US-PATENT-CLASS-118-428 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-43 ..... c 25 N75-29192 *
US-PATENT-CLASS-118-48 ..... c 25 N75-26043 *
US-PATENT-CLASS-118-49.1 ..... c 15 N72-32487 *
US-PATENT-CLASS-118-49.1 ..... c 31 N75-12161 *
US-PATENT-CLASS-118-49.1 ..... c 25 N75-26043 *
US-PATENT-CLASS-118-49.5 ..... c 09 N71-26701 *
US-PATENT-CLASS-118-49 ..... c 25 N79-28253 *
US-PATENT-CLASS-118-50.1 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-50.1 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-500 ..... c 37 N78-17383 *
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US-PATENT-CLASS-118-503 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-505 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-50 ..... c 37 N78-17383 *
US-PATENT-CLASS-118-50 ..... c 37 N81-33482 *
US-PATENT-CLASS-118-50 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-52 ..... c 37 N81-33482 *
US-PATENT-CLASS-118-57 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-624 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-62 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-641 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-6 ..... c 51 N77-27677 *
US-PATENT-CLASS-118-7 ..... c 51 N77-27677 *
US-PATENT-CLASS-118-9 ..... c 51 N77-27677 *
US-PATENT-CLASS-119-15 ..... c 11 N71-22875 *
US-PATENT-CLASS-119-17 ..... c 51 N81-32829 *
US-PATENT-CLASS-119-18 ..... c 51 N81-32829 *
US-PATENT-CLASS-119-29 ..... c 51 N78-27733 *
US-PATENT-CLASS-119-51.11 .... c 35 N78-19466 *
US-PATENT-CLASS-119-51.13 .... c 51 N74-15778 *
US-PATENT-CLASS-119-51.5 ..... c 51 N74-15778 *
US-PATENT-CLASS-119-51R ..... c 51 N74-15778 *
US-PATENT-CLASS-119-52AF .... c 51 N74-15778 *
US-PATENT-CLASS-119-54 ..... c 51 N74-15778 *
US-PATENT-CLASS-119-72.5 ..... c 35 N78-19466 *
US-PATENT-CLASS-119-96 ..... c 05 N71-28619 *
US-PATENT-CLASS-121-38 ..... c 15 N70-35409 *
US-PATENT-CLASS-121-38 ..... c 02 N71-29128 *
US-PATENT-CLASS-122-32 ..... c 33 N72-20915 *
US-PATENT-CLASS-122-366 ..... c 34 N85-29180 *
US-PATENT-CLASS-122-366 ..... c 34 N86-27593 *
US-PATENT-CLASS-122-366 ..... c 34 N88-29133 *
US-PATENT-CLASS-122-366 ..... c 34 N89-14392 *
US-PATENT-CLASS-122-366 ..... c 27 N90-23541 *
US-PATENT-CLASS-122-366 ..... c 31 N90-23587 *
US-PATENT-CLASS-122-4D ..... c 25 N82-11144 *
US-PATENT-CLASS-123-DIG.12 . c 37 N76-18457 *
US-PATENT-CLASS-123-DIG.12 . c 44 N78-33526 *
US-PATENT-CLASS-123-DIG.12 . c 28 N80-10374 *
US-PATENT-CLASS-123-DIG.8 .... c 37 N77-31497 *
US-PATENT-CLASS-123-1A ..... c 44 N76-29700 *
US-PATENT-CLASS-123-1A ..... c 44 N78-33526 *
US-PATENT-CLASS-123-102 ..... c 11 N72-20244 *
US-PATENT-CLASS-123-119A .... c 37 N77-31497 *
US-PATENT-CLASS-123-119E .... c 37 N76-18457 *
US-PATENT-CLASS-123-120 ..... c 37 N76-18457 *
US-PATENT-CLASS-123-121 ..... c 37 N76-18457 *
US-PATENT-CLASS-123-122AB .. c 28 N72-22772 *
US-PATENT-CLASS-123-122AB .. c 37 N77-31497 *
US-PATENT-CLASS-123-122E .... c 07 N77-23106 *
US-PATENT-CLASS-123-122E .... c 37 N78-10467 *
US-PATENT-CLASS-123-148CB .. c 33 N77-28385 *
US-PATENT-CLASS-123-148DC .. c 37 N79-11405 *
US-PATENT-CLASS-123-148E .... c 33 N77-28385 *
US-PATENT-CLASS-123-148E .... c 37 N79-11405 *
US-PATENT-CLASS-123-179R .... c 28 N80-10374 *
US-PATENT-CLASS-123-193-P ... c 37 N88-23981 *
US-PATENT-CLASS-123-193P .... c 37 N90-22042 *
US-PATENT-CLASS-123-197R .... c 37 N83-36483 *
US-PATENT-CLASS-123-37 ..... c 37 N77-31497 *
US-PATENT-CLASS-123-3 ..... c 44 N76-18642 *
US-PATENT-CLASS-123-3 ..... c 44 N76-29700 *
US-PATENT-CLASS-123-3 ..... c 44 N77-10636 *
US-PATENT-CLASS-123-3 ..... c 37 N77-31497 *
US-PATENT-CLASS-123-3 ..... c 44 N78-33526 *
US-PATENT-CLASS-123-3 ..... c 28 N80-10374 *
US-PATENT-CLASS-123-41.33 .... c 07 N77-23106 *
US-PATENT-CLASS-123-41.33 .... c 37 N78-10467 *
US-PATENT-CLASS-123-59E ..... c 37 N77-31497 *
US-PATENT-CLASS-123-78E ..... c 37 N83-36483 *
US-PATENT-CLASS-123-89A ..... c 37 N76-18457 *
US-PATENT-CLASS-124-11R ..... c 75 N76-17951 *
US-PATENT-CLASS-124-1 ..... c 75 N76-17951 *
US-PATENT-CLASS-124-3 ..... c 14 N92-15081 *
US-PATENT-CLASS-124-56 ..... c 18 N86-20469 *
US-PATENT-CLASS-124-6 ..... c 09 N77-19076 *
US-PATENT-CLASS-125-13R ..... c 37 N85-21650 *
US-PATENT-CLASS-125-15 ..... c 37 N85-21650 *
US-PATENT-CLASS-125-1 ..... c 46 N74-23069 *
US-PATENT-CLASS-125-20 ..... c 31 N83-27058 *
US-PATENT-CLASS-125-21 ..... c 37 N80-29703 *
US-PATENT-CLASS-125-23R ..... c 76 N80-18951 *
US-PATENT-CLASS-125-23R ..... c 37 N82-32730 *
US-PATENT-CLASS-125-3 ..... c 46 N74-23069 *
US-PATENT-CLASS-126-DIG.1 .... c 44 N85-30474 *
US-PATENT-CLASS-126-263 ..... c 44 N77-32581 *
US-PATENT-CLASS-126-263 ..... c 44 N78-17460 *
US-PATENT-CLASS-126-263 ..... c 44 N80-20808 *
US-PATENT-CLASS-126-263 ..... c 35 N85-29214 *
US-PATENT-CLASS-126-270 ..... c 09 N70-40234 *
US-PATENT-CLASS-126-270 ..... c 03 N70-41580 *
US-PATENT-CLASS-126-270 ..... c 34 N74-23039 *
US-PATENT-CLASS-126-270 ..... c 44 N76-14595 *
US-PATENT-CLASS-126-270 ..... c 44 N76-23675 *
US-PATENT-CLASS-126-270 ..... c 44 N76-24696 *
US-PATENT-CLASS-126-270 ..... c 35 N77-20401 *
US-PATENT-CLASS-126-270 ..... c 44 N77-32582 *
US-PATENT-CLASS-126-270 ..... c 44 N78-15560 *
US-PATENT-CLASS-126-270 ..... c 44 N78-19599 *
US-PATENT-CLASS-126-270 ..... c 44 N78-31526 *
US-PATENT-CLASS-126-270 ..... c 44 N79-11471 *
US-PATENT-CLASS-126-270 ..... c 44 N79-14526 *
US-PATENT-CLASS-126-270 ..... c 44 N79-23481 *
US-PATENT-CLASS-126-270 ..... c 44 N79-24432 *
US-PATENT-CLASS-126-271 ..... c 44 N75-32581 *
US-PATENT-CLASS-126-271 ..... c 44 N76-14602 *
US-PATENT-CLASS-126-271 ..... c 44 N76-22657 *
US-PATENT-CLASS-126-271 ..... c 44 N76-24696 *
US-PATENT-CLASS-126-271 ..... c 35 N77-20401 *
US-PATENT-CLASS-126-271 ..... c 44 N77-32582 *
US-PATENT-CLASS-126-271 ..... c 44 N78-10554 *
US-PATENT-CLASS-126-271 ..... c 44 N78-17460 *
US-PATENT-CLASS-126-271 ..... c 44 N78-31525 *
US-PATENT-CLASS-126-271 ..... c 44 N78-31526 *
US-PATENT-CLASS-126-271 ..... c 44 N79-11471 *
US-PATENT-CLASS-126-271 ..... c 44 N79-14526 *
US-PATENT-CLASS-126-271 ..... c 44 N79-14529 *
US-PATENT-CLASS-126-271 ..... c 44 N79-18443 *
US-PATENT-CLASS-126-271 ..... c 44 N79-23481 *
US-PATENT-CLASS-126-271 ..... c 44 N79-24433 *
US-PATENT-CLASS-126-400 ..... c 44 N78-15560 *
US-PATENT-CLASS-126-400 ..... c 44 N79-24433 *
US-PATENT-CLASS-126-400 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-415 ..... c 44 N84-34792 *
US-PATENT-CLASS-126-415 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-417 ..... c 44 N80-16452 *
US-PATENT-CLASS-126-417 ..... c 34 N84-22903 *
US-PATENT-CLASS-126-418 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-418 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-419 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-419 ..... c 44 N81-17518 *
US-PATENT-CLASS-126-419 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-419 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-419 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-422 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-423 ..... c 34 N88-23958 *
US-PATENT-CLASS-126-425 ..... c 44 N88-14492 *
US-PATENT-CLASS-126-429 ..... c 44 N82-18686 *

US-PATENT-CLASS-126-430 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-433 ..... c 44 N92-29143 *
US-PATENT-CLASS-126-434 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-436 ..... c 44 N92-29143 *
US-PATENT-CLASS-126-437 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-438 ..... c 44 N80-14473 *
US-PATENT-CLASS-126-438 ..... c 44 N82-16475 *
US-PATENT-CLASS-126-438 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-438 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-438 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-440 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-442 ..... c 44 N80-14473 *
US-PATENT-CLASS-126-443 ..... c 35 N89-12048 *
US-PATENT-CLASS-126-451 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-900 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-901 ..... c 44 N80-16452 *
US-PATENT-CLASS-126-901 ..... c 44 N83-34449 *
US-PATENT-CLASS-126-901 ..... c 35 N89-12048 *
US-PATENT-CLASS-126-91A ..... c 25 N79-11151 *
US-PATENT-CLASS-128.2.06E .... c 05 N75-24716 *
US-PATENT-CLASS-128.2.07 ..... c 52 N79-21750 *
US-PATENT-CLASS-128-DIG.12 . c 37 N77-28487 *
US-PATENT-CLASS-128-DIG.12 . c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.13 . c 52 N83-27577 *
US-PATENT-CLASS-128-DIG.16 . c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.20 . c 52 N76-19785 *
US-PATENT-CLASS-128-DIG.20 . c 37 N81-17433 *
US-PATENT-CLASS-128-DIG.25 . c 52 N81-25660 *
US-PATENT-CLASS-128-DIG.25 . c 52 N84-11744 *
US-PATENT-CLASS-128-DIG.26 . c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.4 .... c 05 N72-27103 *
US-PATENT-CLASS-128-DIG.4 .... c 05 N75-24716 *
US-PATENT-CLASS-128-DIG.4 .... c 35 N76-24525 *
US-PATENT-CLASS-128-DIG.4 .... c 52 N77-28717 *
US-PATENT-CLASS-128-DIG.6 .... c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.9 .... c 52 N80-16725 *
US-PATENT-CLASS-128-DIG.9 .... c 51 N81-14605 *
US-PATENT-CLASS-128-1.2 ..... c 52 N82-22875 *
US-PATENT-CLASS-128-1A ..... c 05 N73-32012 *
US-PATENT-CLASS-128-1A ..... c 54 N84-16803 *
US-PATENT-CLASS-128-1R ..... c 52 N77-25772 *
US-PATENT-CLASS-128-1R ..... c 52 N77-28716 *
US-PATENT-CLASS-128-1R ..... c 52 N81-25660 *
US-PATENT-CLASS-128-1R ..... c 52 N84-11744 *
US-PATENT-CLASS-128-142.2 .... c 54 N76-24900 *
US-PATENT-CLASS-128-142.5 .... c 05 N71-11190 *
US-PATENT-CLASS-128-142.5 .... c 05 N71-11203 *
US-PATENT-CLASS-128-142.5 .... c 05 N71-17599 *
US-PATENT-CLASS-128-142.5 .... c 05 N72-20096 *
US-PATENT-CLASS-128-142.5 .... c 05 N73-25125 *
US-PATENT-CLASS-128-142.7 .... c 54 N78-32721 *
US-PATENT-CLASS-128-142R .... c 54 N80-10799 *
US-PATENT-CLASS-128-145.8 .... c 54 N75-27761 *
US-PATENT-CLASS-128-15R ..... c 54 N84-16803 *
US-PATENT-CLASS-128-191R .... c 25 N74-12813 *
US-PATENT-CLASS-128-191R .... c 54 N80-10799 *
US-PATENT-CLASS-128-1 ..... c 05 N70-41819 *
US-PATENT-CLASS-128-1 ..... c 05 N71-20268 *
US-PATENT-CLASS-128-2.05A ... c 52 N74-26626 *
US-PATENT-CLASS-128-2.05A ... c 54 N75-13531 *
US-PATENT-CLASS-128-2.05E .... c 52 N74-27566 *
US-PATENT-CLASS-128-2.05E .... c 52 N76-29896 *
US-PATENT-CLASS-128-2.05F .... c 14 N73-32326 *
US-PATENT-CLASS-128-2.05P .... c 54 N75-13531 *
US-PATENT-CLASS-128-2.05R ... c 05 N73-27941 *
US-PATENT-CLASS-128-2.05R ... c 52 N76-29895 *
US-PATENT-CLASS-128-2.05R ... c 52 N79-10724 *
US-PATENT-CLASS-128-2.05S .... c 52 N74-26626 *
US-PATENT-CLASS-128-2.05T .... c 52 N74-12778 *
US-PATENT-CLASS-128-2.05V .... c 35 N76-24525 *
US-PATENT-CLASS-128-2.05Z .... c 54 N75-27760 *
US-PATENT-CLASS-128-2.05Z .... c 52 N79-18580 *
US-PATENT-CLASS-128-2.05 ..... c 05 N70-41329 *
US-PATENT-CLASS-128-2.05 ..... c 04 N71-23185 *
US-PATENT-CLASS-128-2.05 ..... c 05 N71-27234 *
US-PATENT-CLASS-128-2.06B ... c 05 N75-24716 *
US-PATENT-CLASS-128-2.06E .... c 52 N76-29896 *
US-PATENT-CLASS-128-2.06F .... c 52 N74-12778 *
US-PATENT-CLASS-128-2.06R ... c 05 N73-27941 *
US-PATENT-CLASS-128-2.06R ... c 52 N76-14757 *
US-PATENT-CLASS-128-2.06 ..... c 05 N69-21925 * #
US-PATENT-CLASS-128-2.06 ..... c 05 N71-22896 *
US-PATENT-CLASS-128-2.06 ..... c 09 N71-24618 *
US-PATENT-CLASS-128-2.06 ..... c 05 N71-26293 *
US-PATENT-CLASS-128-2.07 ..... c 05 N73-32015 *
US-PATENT-CLASS-128-2.07 ..... c 52 N74-20728 *
US-PATENT-CLASS-128-2.08 ..... c 05 N69-21473 * #
US-PATENT-CLASS-128-2.08 ..... c 05 N73-32015 *
US-PATENT-CLASS-128-2.08 ..... c 52 N74-20728 *
US-PATENT-CLASS-128-2.1A ..... c 09 N72-17153 *
US-PATENT-CLASS-128-2.1A ..... c 09 N72-22202 *
US-PATENT-CLASS-128-2.1A ..... c 52 N74-26625 *
US-PATENT-CLASS-128-2.1A ..... c 52 N76-14757 *
US-PATENT-CLASS-128-2.1A ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2.1A ..... c 52 N79-18580 *
US-PATENT-CLASS-128-2.1E ..... c 05 N72-27103 *
US-PATENT-CLASS-128-2.1E ..... c 35 N76-24525 *
US-PATENT-CLASS-128-2.1E ..... c 52 N77-28717 *
US-PATENT-CLASS-128-2.1R ..... c 05 N73-26072 *
US-PATENT-CLASS-128-2.1Z ..... c 35 N76-24525 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-11193 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-12346 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-24729 *
US-PATENT-CLASS-128-2.1 ..... c 09 N71-26002 *
US-PATENT-CLASS-128-2.1 ..... c 05 N72-25120 *
US-PATENT-CLASS-128-2F ..... c 54 N76-14804 *
US-PATENT-CLASS-128-2H ..... c 52 N76-14757 *
US-PATENT-CLASS-128-2H ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2H ..... c 52 N77-10780 *
US-PATENT-CLASS-128-2H ..... c 52 N77-14736 *
US-PATENT-CLASS-128-2N ..... c 05 N72-25122 *
US-PATENT-CLASS-128-2N ..... c 05 N73-13114 *
US-PATENT-CLASS-128-2P ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2R ..... c 09 N72-22202 *
US-PATENT-CLASS-128-2R ..... c 52 N79-12694 *
US-PATENT-CLASS-128-2S ..... c 52 N74-10975 *
US-PATENT-CLASS-128-2S ..... c 52 N74-27864 *
US-PATENT-CLASS-128-2S ..... c 33 N75-31329 *
US-PATENT-CLASS-128-2S ..... c 33 N76-19338 *
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US-PATENT-CLASS-128-2S ..... c 52 N76-29896 *
US-PATENT-CLASS-128-2V ..... c 52 N74-20726 *
US-PATENT-CLASS-128-2V ..... c 35 N75-12271 *
US-PATENT-CLASS-128-2V ..... c 54 N75-27760 *
US-PATENT-CLASS-128-2V ..... c 52 N79-14751 *
US-PATENT-CLASS-128-2V ..... c 52 N79-18580 *
US-PATENT-CLASS-128-202.11 .. c 54 N86-28618 *
US-PATENT-CLASS-128-203 ..... c 54 N76-24900 *
US-PATENT-CLASS-128-204.18 .. c 51 N81-14605 *
US-PATENT-CLASS-128-206F ..... c 14 N73-24473 *
US-PATENT-CLASS-128-207.14 .. c 51 N81-14605 *
US-PATENT-CLASS-128-207.28 .. c 51 N81-14605 *
US-PATENT-CLASS-128-212 ..... c 54 N80-10799 *
US-PATENT-CLASS-128-214D .... c 52 N79-14749 *
US-PATENT-CLASS-128-214E .... c 52 N74-22771 *
US-PATENT-CLASS-128-214F .... c 37 N77-28487 *
US-PATENT-CLASS-128-230 ..... c 52 N75-33640 *
US-PATENT-CLASS-128-236 ..... c 51 N81-14605 *
US-PATENT-CLASS-128-24-A ..... c 52 N84-34913 *
US-PATENT-CLASS-128-24A ..... c 05 N73-27062 *
US-PATENT-CLASS-128-24A ..... c 54 N75-27760 *
US-PATENT-CLASS-128-24 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-25R ..... c 37 N74-18127 *
US-PATENT-CLASS-128-25 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-26 ..... c 52 N76-19785 *
US-PATENT-CLASS-128-272 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-272 ..... c 52 N79-14749 *
US-PATENT-CLASS-128-275 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-275 ..... c 52 N81-29763 *
US-PATENT-CLASS-128-276 ..... c 52 N80-14684 *
US-PATENT-CLASS-128-276 ..... c 52 N80-18690 *
US-PATENT-CLASS-128-280 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-283 ..... c 05 N69-23192 * #
US-PATENT-CLASS-128-283 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-284 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-285 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-288 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-291 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-295 ..... c 05 N72-22093 *
US-PATENT-CLASS-128-295 ..... c 52 N81-24711 *
US-PATENT-CLASS-128-295 ..... c 52 N81-28740 *
US-PATENT-CLASS-128-296 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-29 ..... c 05 N70-39922 *
US-PATENT-CLASS-128-2 ..... c 05 N73-27062 *
US-PATENT-CLASS-128-303B .... c 52 N83-25346 *
US-PATENT-CLASS-128-303R .... c 52 N77-28716 *
US-PATENT-CLASS-128-305 ..... c 05 N73-27062 *
US-PATENT-CLASS-128-305 ..... c 52 N75-33640 *
US-PATENT-CLASS-128-305 ..... c 52 N78-14773 *
US-PATENT-CLASS-128-325 ..... c 52 N84-28388 *
US-PATENT-CLASS-128-327 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-328 ..... c 52 N84-34913 *
US-PATENT-CLASS-128-329R .... c 52 N79-27836 *
US-PATENT-CLASS-128-346 ..... c 52 N81-25660 *
US-PATENT-CLASS-128-346 ..... c 52 N84-11744 *
US-PATENT-CLASS-128-346 ..... c 52 N84-28388 *
US-PATENT-CLASS-128-348 ..... c 52 N80-16725 *
US-PATENT-CLASS-128-379 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-38 ..... c 54 N84-16803 *
US-PATENT-CLASS-128-400 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-402 ..... c 05 N72-20096 *
US-PATENT-CLASS-128-402 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-410 ..... c 52 N77-28717 *
US-PATENT-CLASS-128-417 ..... c 05 N72-25120 *
US-PATENT-CLASS-128-417 ..... c 05 N72-27103 *
US-PATENT-CLASS-128-418 ..... c 52 N76-29896 *
US-PATENT-CLASS-128-418 ..... c 52 N77-14738 *
US-PATENT-CLASS-128-419P .... c 52 N76-29896 *
US-PATENT-CLASS-128-421 ..... c 52 N82-29863 *
US-PATENT-CLASS-128-422 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-62A ..... c 52 N82-29862 *
US-PATENT-CLASS-128-639 ..... c 52 N79-27836 *
US-PATENT-CLASS-128-642 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-642 ..... c 52 N81-14612 *
US-PATENT-CLASS-128-642 ..... c 52 N81-20703 *
US-PATENT-CLASS-128-660.06 .. c 71 N91-27914 *
US-PATENT-CLASS-128-660 ..... c 52 N79-26771 *
US-PATENT-CLASS-128-660 ..... c 52 N83-27578 *
US-PATENT-CLASS-128-660 ..... c 52 N85-30618 *
US-PATENT-CLASS-128-661.03 .. c 52 N90-21519 *
US-PATENT-CLASS-128-661.03 .. c 52 N92-11621 *
US-PATENT-CLASS-128-663 ..... c 52 N83-27578 *
US-PATENT-CLASS-128-665 ..... c 52 N81-27783 *
US-PATENT-CLASS-128-666 ..... c 52 N80-23969 *
US-PATENT-CLASS-128-671 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-675 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-686 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-689 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-690 ..... c 52 N80-23969 *
US-PATENT-CLASS-128-691 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-6 ..... c 52 N80-16725 *
US-PATENT-CLASS-128-706 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-715 ..... c 35 N92-33016 *
US-PATENT-CLASS-128-716 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-736 ..... c 52 N85-30618 *
US-PATENT-CLASS-128-748 ..... c 52 N80-18691 *
US-PATENT-CLASS-128-748 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-760 ..... c 52 N80-18690 *
US-PATENT-CLASS-128-760 ..... c 52 N81-29763 *
US-PATENT-CLASS-128-761 ..... c 52 N81-24711 *
US-PATENT-CLASS-128-774 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-774 ..... c 52 N81-20703 *
US-PATENT-CLASS-128-774 ..... c 52 N83-25346 *
US-PATENT-CLASS-128-775 ..... c 35 N92-33016 *
US-PATENT-CLASS-128-778 ..... c 52 N82-22875 *
US-PATENT-CLASS-128-778 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-782 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-782 ..... c 39 N83-20280 *
US-PATENT-CLASS-128-782 ..... c 52 N83-25346 *
US-PATENT-CLASS-128-784 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-80-E ..... c 54 N86-22112 *
US-PATENT-CLASS-128-80F ..... c 52 N81-25661 *
US-PATENT-CLASS-128-804 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-89R ..... c 52 N81-25662 *
US-PATENT-CLASS-128-903 ..... c 52 N80-18691 *
US-PATENT-CLASS-128-92C ..... c 27 N78-17215 *
US-PATENT-CLASS-128-92G ..... c 27 N78-17215 *
US-PATENT-CLASS-129-16.7 ..... c 08 N71-15908 *
US-PATENT-CLASS-13-20 ..... c 11 N72-23215 *
US-PATENT-CLASS-13-20 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-22 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-24 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-26 ..... c 33 N71-15625 *
US-PATENT-CLASS-13-26 ..... c 14 N71-23267 *
US-PATENT-CLASS-13-31 ..... c 11 N72-23215 *
US-PATENT-CLASS-13-31 ..... c 31 N74-27900 *
US-PATENT-CLASS-13-35 ..... c 33 N71-24145 *
US-PATENT-CLASS-134-137 ..... c 37 N82-12441 *
US-PATENT-CLASS-134-166C .... c 37 N87-17035 *
US-PATENT-CLASS-134-17 ..... c 43 N81-26509 *
US-PATENT-CLASS-134-21 ..... c 37 N76-18456 *
US-PATENT-CLASS-134-37 ..... c 37 N76-18456 *
US-PATENT-CLASS-134-37 ..... c 37 N85-21652 *
US-PATENT-CLASS-134-93 ..... c 37 N87-17035 *
US-PATENT-CLASS-135-1 ..... c 32 N70-36536 *
US-PATENT-CLASS-135-903 ..... c 37 N87-17036 *
US-PATENT-CLASS-136-100R .... c 03 N72-20034 *
US-PATENT-CLASS-136-114 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-132 ..... c 03 N71-11053 *
US-PATENT-CLASS-136-132 ..... c 03 N71-22974 *
US-PATENT-CLASS-136-133 ..... c 15 N69-24320 * #
US-PATENT-CLASS-136-133 ..... c 03 N71-23006 *
US-PATENT-CLASS-136-133 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-135 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-143 ..... c 44 N76-29699 *
US-PATENT-CLASS-136-146 ..... c 03 N69-21337 * #
US-PATENT-CLASS-136-146 ..... c 24 N76-14204 *
US-PATENT-CLASS-136-148 ..... c 24 N76-14204 *
US-PATENT-CLASS-136-148 ..... c 44 N82-24645 *
US-PATENT-CLASS-136-162 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-166 ..... c 03 N71-23336 *
US-PATENT-CLASS-136-166 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-170 ..... c 03 N71-11051 *
US-PATENT-CLASS-136-175 ..... c 03 N72-20034 *
US-PATENT-CLASS-136-179 ..... c 03 N70-41864 *
US-PATENT-CLASS-136-182 ..... c 03 N71-10728 *
US-PATENT-CLASS-136-182 ..... c 03 N71-20407 *
US-PATENT-CLASS-136-182 ..... c 03 N71-20491 *
US-PATENT-CLASS-136-182 ..... c 44 N74-27519 *
US-PATENT-CLASS-136-182 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-200 ..... c 35 N91-31608 *
US-PATENT-CLASS-136-202 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-202 ..... c 03 N72-26031 *
US-PATENT-CLASS-136-202 ..... c 44 N76-16612 *
US-PATENT-CLASS-136-202 ..... c 35 N77-32454 *
US-PATENT-CLASS-136-202 ..... c 35 N79-14346 *
US-PATENT-CLASS-136-202 ..... c 44 N92-16457 *
US-PATENT-CLASS-136-204 ..... c 31 N91-27385 *

US-PATENT-CLASS-136-205 ..... c 44 N92-16457 *
US-PATENT-CLASS-136-206 ..... c 03 N72-11062 *
US-PATENT-CLASS-136-206 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-206 ..... c 44 N76-14595 *
US-PATENT-CLASS-136-206 ..... c 44 N76-31666 *
US-PATENT-CLASS-136-20 ..... c 44 N74-19693 *
US-PATENT-CLASS-136-210 ..... c 44 N76-16612 *
US-PATENT-CLASS-136-211 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-212 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-213 ..... c 14 N69-27459 * #
US-PATENT-CLASS-136-213 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-224 ..... c 14 N73-12447 *
US-PATENT-CLASS-136-225 ..... c 14 N73-24472 *
US-PATENT-CLASS-136-225 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-225 ..... c 44 N85-21768 *
US-PATENT-CLASS-136-227 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-228 ..... c 33 N71-15568 *
US-PATENT-CLASS-136-230 ..... c 14 N71-23039 *
US-PATENT-CLASS-136-230 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-232 ..... c 35 N77-14409 *
US-PATENT-CLASS-136-233 ..... c 14 N72-27410 *
US-PATENT-CLASS-136-233 ..... c 14 N73-13417 *
US-PATENT-CLASS-136-233 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-233 ..... c 35 N77-14409 *
US-PATENT-CLASS-136-236R .... c 35 N77-32454 *
US-PATENT-CLASS-136-236 ..... c 35 N79-14346 *
US-PATENT-CLASS-136-240 ..... c 35 N77-32454 *
US-PATENT-CLASS-136-244 ..... c 44 N91-27614 *
US-PATENT-CLASS-136-245 ..... c 54 N92-21589 *
US-PATENT-CLASS-136-246 ..... c 44 N85-21768 *
US-PATENT-CLASS-136-246 ..... c 54 N92-21589 *
US-PATENT-CLASS-136-249 ..... c 44 N81-12542 *
US-PATENT-CLASS-136-249 ..... c 44 N82-29709 *
US-PATENT-CLASS-136-249 ..... c 44 N82-31764 *
US-PATENT-CLASS-136-249 ..... c 44 N83-32177 *
US-PATENT-CLASS-136-249 ..... c 44 N87-17399 *
US-PATENT-CLASS-136-249 ..... c 33 N87-23879 *
US-PATENT-CLASS-136-249 ..... c 44 N91-27614 *
US-PATENT-CLASS-136-24 ..... c 09 N73-32108 *
US-PATENT-CLASS-136-253 ..... c 44 N85-34441 *
US-PATENT-CLASS-136-253 ..... c 44 N92-22037 *
US-PATENT-CLASS-136-255 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-255 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-255 ..... c 33 N85-21492 *
US-PATENT-CLASS-136-255 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-255 ..... c 76 N86-20150 *
US-PATENT-CLASS-136-255 ..... c 33 N87-23879 *
US-PATENT-CLASS-136-256 ..... c 44 N83-13579 *
US-PATENT-CLASS-136-256 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-256 ..... c 44 N85-20530 *
US-PATENT-CLASS-136-256 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-256 ..... c 44 N91-27614 *
US-PATENT-CLASS-136-258 ..... c 44 N81-19558 *
US-PATENT-CLASS-136-258 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-259 ..... c 44 N83-13579 *
US-PATENT-CLASS-136-259 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-261 ..... c 44 N82-26777 *
US-PATENT-CLASS-136-261 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-261 ..... c 44 N86-32875 *
US-PATENT-CLASS-136-262 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-262 ..... c 76 N86-20150 *
US-PATENT-CLASS-136-28 ..... c 03 N71-10608 *
US-PATENT-CLASS-136-290 ..... c 44 N82-26777 *
US-PATENT-CLASS-136-291 ..... c 44 N81-12542 *
US-PATENT-CLASS-136-30 ..... c 44 N74-19693 *
US-PATENT-CLASS-136-30 ..... c 44 N76-18643 *
US-PATENT-CLASS-136-30 ..... c 44 N76-29699 *
US-PATENT-CLASS-136-36 ..... c 44 N74-19692 *
US-PATENT-CLASS-136-6LF ..... c 44 N76-18643 *
US-PATENT-CLASS-136-6 ..... c 03 N71-26084 *
US-PATENT-CLASS-136-6 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24641 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24642 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24643 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24644 *
US-PATENT-CLASS-136-79 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-81 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-83R ..... c 03 N72-20034 *
US-PATENT-CLASS-136-83R ..... c 44 N76-18641 *
US-PATENT-CLASS-136-83 ..... c 03 N71-28579 *
US-PATENT-CLASS-136-86A ..... c 44 N76-27664 *
US-PATENT-CLASS-136-86S ..... c 44 N76-18641 *
US-PATENT-CLASS-136-86 ..... c 03 N71-11052 *
US-PATENT-CLASS-136-86 ..... c 03 N71-20904 *
US-PATENT-CLASS-136-86 ..... c 15 N71-23022 *
US-PATENT-CLASS-136-86 ..... c 03 N71-29044 *
US-PATENT-CLASS-136-89AC .... c 44 N77-31601 *
US-PATENT-CLASS-136-89CA .... c 44 N79-25482 *
US-PATENT-CLASS-136-89CC .... c 44 N78-25527 *
US-PATENT-CLASS-136-89CC .... c 44 N78-25529 *
US-PATENT-CLASS-136-89CC .... c 44 N79-11467 *
US-PATENT-CLASS-136-89CC .... c 44 N79-17314 *
US-PATENT-CLASS-136-89CC .... c 44 N79-25482 *
US-PATENT-CLASS-136-89CC .... c 44 N79-31752 *
US-PATENT-CLASS-136-89H ..... c 44 N78-25528 *
US-PATENT-CLASS-136-89H ..... c 44 N78-25529 *

US-PATENT-CLASS-136-89PC .... c 44 N79-25482 *
US-PATENT-CLASS-136-89PC .... c 44 N79-31753 *
US-PATENT-CLASS-136-89P ..... c 44 N77-31601 *
US-PATENT-CLASS-136-89P ..... c 44 N78-25528 *
US-PATENT-CLASS-136-89P ..... c 44 N78-25529 *
US-PATENT-CLASS-136-89P ..... c 44 N78-27515 *
US-PATENT-CLASS-136-89P ..... c 44 N79-17314 *
US-PATENT-CLASS-136-89P ..... c 44 N80-14474 *
US-PATENT-CLASS-136-89SG .... c 44 N78-24609 *
US-PATENT-CLASS-136-89SG .... c 44 N80-24741 *
US-PATENT-CLASS-136-89SJ .... c 44 N78-13526 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-11467 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-14528 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-25482 *
US-PATENT-CLASS-136-89 ..... c 03 N69-24267 * #
US-PATENT-CLASS-136-89 ..... c 03 N71-11049 *
US-PATENT-CLASS-136-89 ..... c 03 N71-11050 *
US-PATENT-CLASS-136-89 ..... c 03 N71-11056 *
US-PATENT-CLASS-136-89 ..... c 03 N71-18698 *
US-PATENT-CLASS-136-89 ..... c 03 N71-19545 *
US-PATENT-CLASS-136-89 ..... c 03 N71-20492 *
US-PATENT-CLASS-136-89 ..... c 03 N71-20895 *
US-PATENT-CLASS-136-89 ..... c 26 N71-23043 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23187 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23449 *
US-PATENT-CLASS-136-89 ..... c 03 N71-33409 *
US-PATENT-CLASS-136-89 ..... c 03 N72-20031 *
US-PATENT-CLASS-136-89 ..... c 03 N72-22042 *
US-PATENT-CLASS-136-89 ..... c 31 N72-22874 *
US-PATENT-CLASS-136-89 ..... c 03 N72-24037 *
US-PATENT-CLASS-136-89 ..... c 09 N72-25259 *
US-PATENT-CLASS-136-89 ..... c 03 N72-27053 *
US-PATENT-CLASS-136-89 ..... c 09 N73-32109 *
US-PATENT-CLASS-136-89 ..... c 44 N74-14784 *
US-PATENT-CLASS-136-89 ..... c 44 N76-14600 *
US-PATENT-CLASS-136-89 ..... c 44 N76-28635 *
US-PATENT-CLASS-136-89 ..... c 44 N76-31666 *
US-PATENT-CLASS-136-89 ..... c 44 N77-10635 *
US-PATENT-CLASS-136-89 ..... c 44 N77-14580 *
US-PATENT-CLASS-136-89 ..... c 44 N77-19571 *
US-PATENT-CLASS-136-89 ..... c 44 N79-11468 *
US-PATENT-CLASS-136-90 ..... c 44 N76-14601 *
US-PATENT-CLASS-137-DIG.9 .... c 54 N76-24900 *
US-PATENT-CLASS-137-101 ..... c 07 N77-23106 *
US-PATENT-CLASS-137-104 ..... c 37 N78-10467 *
US-PATENT-CLASS-137-110 ..... c 54 N76-24900 *
US-PATENT-CLASS-137-116.3 .... c 37 N85-34403 *
US-PATENT-CLASS-137-13 ..... c 15 N71-15967 *
US-PATENT-CLASS-137-13 ..... c 15 N72-33477 *
US-PATENT-CLASS-137-14 ..... c 37 N79-33468 *
US-PATENT-CLASS-137-15.1 ..... c 02 N74-20646 *
US-PATENT-CLASS-137-15.1 ..... c 07 N74-31270 *
US-PATENT-CLASS-137-15.1 ..... c 07 N75-24736 *
US-PATENT-CLASS-137-15.1 ..... c 07 N77-18154 *
US-PATENT-CLASS-137-15.1 ..... c 07 N79-14096 *
US-PATENT-CLASS-137-15.1 ..... c 05 N79-24976 *
US-PATENT-CLASS-137-15.1 ..... c 07 N81-14999 *
US-PATENT-CLASS-137-15.2 ..... c 02 N74-20646 *
US-PATENT-CLASS-137-15.2 ..... c 35 N76-14431 *
US-PATENT-CLASS-137-154 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-154 ..... c 31 N90-20254 *
US-PATENT-CLASS-137-177 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-197 ..... c 15 N70-41646 *
US-PATENT-CLASS-137-197 ..... c 35 N78-12390 *
US-PATENT-CLASS-137-1 ..... c 12 N70-38997 *
US-PATENT-CLASS-137-1 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-207 ..... c 34 N77-30399 *
US-PATENT-CLASS-137-209 ..... c 34 N77-30399 *
US-PATENT-CLASS-137-209 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-340 ..... c 15 N70-34817 *
US-PATENT-CLASS-137-340 ..... c 15 N70-35087 *
US-PATENT-CLASS-137-341 ..... c 12 N71-17661 *
US-PATENT-CLASS-137-375 ..... c 37 N80-23654 *
US-PATENT-CLASS-137-397 ..... c 15 N73-26472 *
US-PATENT-CLASS-137-469 ..... c 05 N72-20097 *
US-PATENT-CLASS-137-484.2 .... c 34 N78-25351 *
US-PATENT-CLASS-137-487.5 .... c 14 N73-13418 *
US-PATENT-CLASS-137-491 ..... c 15 N69-21924 * #
US-PATENT-CLASS-137-493 ..... c 52 N81-25660 *
US-PATENT-CLASS-137-495 ..... c 15 N70-38603 *
US-PATENT-CLASS-137-496 ..... c 15 N71-22706 *
US-PATENT-CLASS-137-501 ..... c 34 N78-25351 *
US-PATENT-CLASS-137-505.12 .. c 14 N71-18625 *
US-PATENT-CLASS-137-505.16 .. c 34 N78-25351 *
US-PATENT-CLASS-137-505.25 .. c 37 N78-25426 *
US-PATENT-CLASS-137-505.38 .. c 37 N75-15050 *
US-PATENT-CLASS-137-505.42 .. c 37 N75-15050 *
US-PATENT-CLASS-137-515.3 .... c 37 N76-14463 *
US-PATENT-CLASS-137-516.27 .. c 15 N73-30459 *
US-PATENT-CLASS-137-535 ..... c 15 N73-30459 *
US-PATENT-CLASS-137-535 ..... c 05 N73-32014 *
US-PATENT-CLASS-137-538 ..... c 05 N73-25125 *
US-PATENT-CLASS-137-539 ..... c 15 N70-41811 *
US-PATENT-CLASS-137-549 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-550 ..... c 37 N76-14463 *
US-PATENT-CLASS-137-554 ..... c 09 N71-23191 *

US-PATENT-CLASS-137-556 ..... c 34 N91-14563 *
US-PATENT-CLASS-137-559 ..... c 11 N73-12265 *
US-PATENT-CLASS-137-574 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-576 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-582 ..... c 32 N71-16103 *
US-PATENT-CLASS-137-582 ..... c 32 N71-16106 *
US-PATENT-CLASS-137-582 ..... c 15 N71-19569 *
US-PATENT-CLASS-137-582 ..... c 15 N73-26472 *
US-PATENT-CLASS-137-590 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-594 ..... c 12 N71-18615 *
US-PATENT-CLASS-137-604 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-606 ..... c 37 N87-21332 *
US-PATENT-CLASS-137-608 ..... c 15 N73-13462 *
US-PATENT-CLASS-137-614.06 .. c 37 N79-11402 *
US-PATENT-CLASS-137-614.11 .. c 37 N87-25573 *
US-PATENT-CLASS-137-614.18 .. c 37 N87-25573 *
US-PATENT-CLASS-137-614 ..... c 15 N70-36492 *
US-PATENT-CLASS-137-615 ..... c 12 N71-16031 *
US-PATENT-CLASS-137-624.11 .. c 35 N78-19466 *
US-PATENT-CLASS-137-624.14 .. c 03 N69-21469 * #
US-PATENT-CLASS-137-625.38 .. c 37 N78-25426 *
US-PATENT-CLASS-137-625.3 .... c 37 N78-25426 *
US-PATENT-CLASS-137-625.4 .... c 37 N80-23654 *
US-PATENT-CLASS-137-625.5 .... c 15 N71-23051 *
US-PATENT-CLASS-137-625.69 .. c 15 N70-36908 *
US-PATENT-CLASS-137-628 ..... c 37 N74-21065 *
US-PATENT-CLASS-137-637.05 .. c 37 N79-11402 *
US-PATENT-CLASS-137-81.5 ..... c 12 N69-21466 * #
US-PATENT-CLASS-137-81.5 ..... c 15 N71-15609 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-17578 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-17579 *
US-PATENT-CLASS-137-81.5 ..... c 10 N71-25899 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-27332 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-28741 *
US-PATENT-CLASS-137-81.5 ..... c 28 N72-22772 *
US-PATENT-CLASS-137-81.5 ..... c 15 N72-33477 *
US-PATENT-CLASS-137-81.5 ..... c 15 N73-13462 *
US-PATENT-CLASS-137-81.5 ..... c 28 N73-13773 *
US-PATENT-CLASS-137-819 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-81 ..... c 05 N72-20097 *
US-PATENT-CLASS-137-81 ..... c 14 N73-13418 *
US-PATENT-CLASS-137-833 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-838 ..... c 71 N84-28568 *
US-PATENT-CLASS-137-840 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-886 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-887 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-99 ..... c 37 N85-34403 *
US-PATENT-CLASS-138.8R ..... c 27 N81-15104 *
US-PATENT-CLASS-138-103 ..... c 52 N80-16725 *
US-PATENT-CLASS-138-113 ..... c 34 N75-12222 *
US-PATENT-CLASS-138-114 ..... c 34 N75-12222 *
US-PATENT-CLASS-138-119 ..... c 32 N70-41579 *
US-PATENT-CLASS-138-120 ..... c 54 N86-28619 *
US-PATENT-CLASS-138-120 ..... c 54 N86-28620 *
US-PATENT-CLASS-138-120 ..... c 54 N86-29507 * #
US-PATENT-CLASS-138-133 ..... c 52 N80-16725 *
US-PATENT-CLASS-138-141 ..... c 24 N90-25196 *
US-PATENT-CLASS-138-148 ..... c 34 N75-12222 *
US-PATENT-CLASS-138-149 ..... c 24 N90-25196 *
US-PATENT-CLASS-138-153 ..... c 24 N90-25196 *
US-PATENT-CLASS-138-178 ..... c 15 N72-20445 *
US-PATENT-CLASS-138-26 ..... c 31 N91-25305 *
US-PATENT-CLASS-138-30 ..... c 31 N91-25305 *
US-PATENT-CLASS-138-33 ..... c 52 N80-16725 *
US-PATENT-CLASS-138-38 ..... c 02 N88-14071 *
US-PATENT-CLASS-138-38 ..... c 34 N88-29133 *
US-PATENT-CLASS-138-42 ..... c 15 N71-15608 *
US-PATENT-CLASS-138-42 ..... c 44 N84-14583 *
US-PATENT-CLASS-138-43 ..... c 15 N71-19213 *
US-PATENT-CLASS-138-45 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-45 ..... c 15 N73-13462 *
US-PATENT-CLASS-138-46 ..... c 12 N71-18615 *
US-PATENT-CLASS-138-4 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-96R ..... c 37 N79-22474 *
US-PATENT-CLASS-138-97 ..... c 37 N86-32736 * #
US-PATENT-CLASS-139-DIG.1 .... c 31 N93-18857 *
US-PATENT-CLASS-139-11 ..... c 31 N93-18857 *
US-PATENT-CLASS-139-425R .... c 28 N72-11708 *
US-PATENT-CLASS-139-429 ..... c 31 N93-18857 *
US-PATENT-CLASS-139-436 ..... c 31 N93-18857 *
US-PATENT-CLASS-14-71.5 ..... c 18 N91-14374 *
US-PATENT-CLASS-140-105 ..... c 15 N72-12408 *
US-PATENT-CLASS-140-123 ..... c 15 N71-15918 *
US-PATENT-CLASS-140-124 ..... c 15 N71-10809 *
US-PATENT-CLASS-141-197 ..... c 35 N78-10428 *
US-PATENT-CLASS-141-198 ..... c 25 N86-27431 *
US-PATENT-CLASS-141-23 ..... c 15 N72-21465 *
US-PATENT-CLASS-141-258 ..... c 14 N71-27005 *
US-PATENT-CLASS-141-45 ..... c 29 N90-20236 *
US-PATENT-CLASS-141-4 ..... c 35 N78-10428 *
US-PATENT-CLASS-141-5 ..... c 33 N71-20834 *
US-PATENT-CLASS-141-91 ..... c 12 N71-21089 *
US-PATENT-CLASS-141-93 ..... c 31 N90-20254 *
US-PATENT-CLASS-148-DIG.22 . c 76 N92-22035 *
US-PATENT-CLASS-148-DIG.26 . c 76 N85-30922 *
US-PATENT-CLASS-148-1.5 ..... c 26 N71-10607 *

US-PATENT-CLASS-148-1.5 ..... c 26 N71-23654 *
US-PATENT-CLASS-148-1.5 ..... c 76 N74-20329 *
US-PATENT-CLASS-148-1.5 ..... c 44 N80-29835 *
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US-PATENT-CLASS-148-1.5 ..... c 44 N82-29709 *
US-PATENT-CLASS-148-1.5 ..... c 44 N86-32875 *
US-PATENT-CLASS-148-11.5R ... c 15 N73-13465 *
US-PATENT-CLASS-148-12.4 ..... c 26 N79-22271 *
US-PATENT-CLASS-148-12.7A ... c 26 N78-24333 *
US-PATENT-CLASS-148-12.7N ... c 26 N77-20201 *
US-PATENT-CLASS-148-12F ..... c 26 N79-22271 *
US-PATENT-CLASS-148-121 ..... c 76 N79-16678 *
US-PATENT-CLASS-148-125 ..... c 26 N78-24333 *
US-PATENT-CLASS-148-126 ..... c 17 N71-24142 *
US-PATENT-CLASS-148-126 ..... c 18 N71-26153 *
US-PATENT-CLASS-148-126 ..... c 18 N71-28729 *
US-PATENT-CLASS-148-126 ..... c 26 N74-10521 *
US-PATENT-CLASS-148-127 ..... c 26 N75-29236 *
US-PATENT-CLASS-148-13.1 ..... c 76 N90-19884 *
US-PATENT-CLASS-148-131 ..... c 26 N80-28492 *
US-PATENT-CLASS-148-13 ..... c 14 N71-25892 *
US-PATENT-CLASS-148-13 ..... c 76 N90-19884 *
US-PATENT-CLASS-148-149 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-159 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-16.6 ..... c 26 N88-14179 *
US-PATENT-CLASS-148-162 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-162 ..... c 26 N87-28647 *
US-PATENT-CLASS-148-173 ..... c 76 N83-20789 *
US-PATENT-CLASS-148-174 ..... c 26 N71-29156 *
US-PATENT-CLASS-148-174 ..... c 44 N76-28635 *
US-PATENT-CLASS-148-174 ..... c 44 N78-24609 *
US-PATENT-CLASS-148-174 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-174 ..... c 76 N87-15882 *
US-PATENT-CLASS-148-175 ..... c 25 N75-26043 *
US-PATENT-CLASS-148-175 ..... c 76 N76-25049 *
US-PATENT-CLASS-148-175 ..... c 44 N76-28635 *
US-PATENT-CLASS-148-175 ..... c 44 N82-28780 *
US-PATENT-CLASS-148-175 ..... c 76 N83-20789 *
US-PATENT-CLASS-148-175 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-175 ..... c 76 N87-15882 *
US-PATENT-CLASS-148-187 ..... c 26 N72-17820 *
US-PATENT-CLASS-148-187 ..... c 14 N72-28438 *
US-PATENT-CLASS-148-187 ..... c 33 N81-26360 *
US-PATENT-CLASS-148-187 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-188 ..... c 24 N71-10560 *
US-PATENT-CLASS-148-188 ..... c 09 N71-12513 *
US-PATENT-CLASS-148-188 ..... c 44 N79-11468 *
US-PATENT-CLASS-148-188 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-189 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-190 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-20.3 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-2 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-2 ..... c 26 N79-22271 *
US-PATENT-CLASS-148-32 ..... c 26 N78-18183 *
US-PATENT-CLASS-148-32.5 ..... c 17 N72-22535 *
US-PATENT-CLASS-148-32.5 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-32.5 ..... c 26 N77-32280 *
US-PATENT-CLASS-148-32.5 ..... c 26 N78-18183 *
US-PATENT-CLASS-148-32 ..... c 26 N77-32279 *
US-PATENT-CLASS-148-32 ..... c 26 N80-23419 *
US-PATENT-CLASS-148-33.2 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-402 ..... c 52 N92-33032 *
US-PATENT-CLASS-148-410 ..... c 26 N87-28647 *
US-PATENT-CLASS-148-416 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-417 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-428 ..... c 26 N82-31505 *
US-PATENT-CLASS-148-429 ..... c 26 N87-14482 *
US-PATENT-CLASS-148-4 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-6.11 ..... c 15 N71-24875 *
US-PATENT-CLASS-148-6.16 ..... c 18 N71-23047 *
US-PATENT-CLASS-148-6.20 ..... c 17 N71-23828 *
US-PATENT-CLASS-148-6.3 ..... c 17 N71-33408 *
US-PATENT-CLASS-148-6.3 ..... c 44 N79-18444 *
US-PATENT-CLASS-148-6.3 ..... c 26 N87-25455 *
US-PATENT-CLASS-148-6 ..... c 18 N71-29040 *
US-PATENT-CLASS-148-6 ..... c 76 N79-16678 *
US-PATENT-CLASS-148-902 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-903 ..... c 09 N90-23415 *
US-PATENT-CLASS-149-105 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-108.4 .... c 28 N80-23471 *
US-PATENT-CLASS-149-108.4 .... c 28 N81-15119 *
US-PATENT-CLASS-149-109 ..... c 27 N70-41897 *
US-PATENT-CLASS-149-111 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-15 ..... c 44 N80-20808 *
US-PATENT-CLASS-149-17 ..... c 28 N74-33209 *
US-PATENT-CLASS-149-19.2 ..... c 28 N80-28536 *
US-PATENT-CLASS-149-19.4 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-19.4 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-19.4 ..... c 28 N79-28342 *
US-PATENT-CLASS-149-19.8 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-19.92 .... c 28 N79-14228 *
US-PATENT-CLASS-149-19.9 ..... c 28 N79-14228 *
US-PATENT-CLASS-149-19.9 ..... c 28 N79-28342 *
US-PATENT-CLASS-149-19.9 ..... c 28 N80-28536 *
US-PATENT-CLASS-149-19 ..... c 27 N71-14090 *
US-PATENT-CLASS-149-19 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-19 ..... c 27 N73-16764 *
US-PATENT-CLASS-149-1 ..... c 23 N71-16212 *
US-PATENT-CLASS-149-1 ..... c 06 N73-30097 *
US-PATENT-CLASS-149-1 ..... c 28 N80-20402 *
US-PATENT-CLASS-149-1 ..... c 28 N81-14103 *
US-PATENT-CLASS-149-20 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-20 ..... c 28 N79-14228 *
US-PATENT-CLASS-149-20 ..... c 28 N79-28342 *
US-PATENT-CLASS-149-20 ..... c 28 N80-28536 *
US-PATENT-CLASS-149-2 ..... c 12 N70-40124 *
US-PATENT-CLASS-149-36 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-36 ..... c 27 N73-16764 *
US-PATENT-CLASS-149-36 ..... c 06 N73-30097 *
US-PATENT-CLASS-149-36 ..... c 24 N76-14203 *
US-PATENT-CLASS-149-37 ..... c 44 N80-20808 *
US-PATENT-CLASS-149-42 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-43 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-44 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-60 ..... c 28 N74-33209 *
US-PATENT-CLASS-149-76 ..... c 28 N74-33209 *
US-PATENT-CLASS-149-76 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-83 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-85 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-88 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-92 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-92 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-93 ..... c 28 N78-31255 *
US-PATENT-CLASS-15-143 ..... c 15 N72-11390 *
US-PATENT-CLASS-15-210 ..... c 15 N72-11390 *
US-PATENT-CLASS-15-230.11 .... c 37 N92-28754 *
US-PATENT-CLASS-15-230.16 .... c 37 N79-10422 *
US-PATENT-CLASS-15-230.17 .... c 37 N79-10422 *
US-PATENT-CLASS-15-406 ..... c 37 N85-21652 *
US-PATENT-CLASS-15-415 ..... c 14 N73-30395 *
US-PATENT-CLASS-150-11 ..... c 37 N81-14317 *
US-PATENT-CLASS-150-1 ..... c 52 N79-14749 *
US-PATENT-CLASS-151-41.76 .... c 37 N80-23653 *
US-PATENT-CLASS-152-11 ..... c 31 N71-18611 *
US-PATENT-CLASS-152-225 ..... c 15 N71-27091 *
US-PATENT-CLASS-152-250 ..... c 15 N71-27091 *
US-PATENT-CLASS-152-330RF .. c 37 N81-24443 *
US-PATENT-CLASS-152-353G .... c 37 N81-24443 *
US-PATENT-CLASS-152-353R .... c 37 N81-24443 *
US-PATENT-CLASS-152-379.4 .... c 37 N81-24443 *
US-PATENT-CLASS-156.307.7 .... c 27 N82-11206 *
US-PATENT-CLASS-156-DIG.113 . c 76 N90-24169 *
US-PATENT-CLASS-156-DIG.113 . c 76 N92-25398 *
US-PATENT-CLASS-156-DIG.6-8 . c 76 N79-23798 *
US-PATENT-CLASS-156-DIG.62 . c 76 N77-32919 *
US-PATENT-CLASS-156-DIG.62 . c 35 N83-24828 *
US-PATENT-CLASS-156-DIG.62 . c 33 N85-29142 *
US-PATENT-CLASS-156-DIG.62 . c 76 N90-23242 *
US-PATENT-CLASS-156-DIG.62 . c 76 N90-24169 *
US-PATENT-CLASS-156-DIG.62 . c 76 N92-25398 *
US-PATENT-CLASS-156-DIG.62 . c 76 N93-14707 *
US-PATENT-CLASS-156-DIG.64 . c 76 N79-11920 *
US-PATENT-CLASS-156-DIG.64 . c 44 N80-24741 *
US-PATENT-CLASS-156-DIG.64 . c 76 N80-32245 *
US-PATENT-CLASS-156-DIG.64 . c 76 N84-35113 *
US-PATENT-CLASS-156-DIG.64 . c 76 N92-21499 *
US-PATENT-CLASS-156-DIG.65 . c 76 N79-11920 *
US-PATENT-CLASS-156-DIG.65 . c 76 N85-30922 *
US-PATENT-CLASS-156-DIG.6 .... c 76 N83-35888 *
US-PATENT-CLASS-156-DIG.70 . c 76 N88-24544 *
US-PATENT-CLASS-156-DIG.70 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.72 . c 76 N88-24544 *
US-PATENT-CLASS-156-DIG.72 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.72 . c 76 N90-23242 *
US-PATENT-CLASS-156-DIG.73 . c 76 N83-35888 *
US-PATENT-CLASS-156-DIG.73 . c 27 N83-36220 *
US-PATENT-CLASS-156-DIG.82 . c 76 N88-24544 *
US-PATENT-CLASS-156-DIG.82 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.84 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.88 . c 76 N79-11920 *
US-PATENT-CLASS-156-DIG.88 . c 76 N80-32245 *
US-PATENT-CLASS-156-DIG.88 . c 76 N84-35113 *
US-PATENT-CLASS-156-DIG.88 . c 76 N85-30922 *
US-PATENT-CLASS-156-DIG.88 . c 76 N86-28760 *
US-PATENT-CLASS-156-DIG.89 . c 27 N83-36220 *
US-PATENT-CLASS-156-DIG.89 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.92 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.96 . c 76 N80-32244 *
US-PATENT-CLASS-156-DIG.96 . c 33 N81-19389 *
US-PATENT-CLASS-156-DIG.98 . c 76 N84-35113 *
US-PATENT-CLASS-156-104 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-153 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-154 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-154 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-157 ..... c 33 N82-26571 *
US-PATENT-CLASS-156-160 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-161 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-163 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-163 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-165 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-166 ..... c 74 N85-29749 *
US-PATENT-CLASS-156-166 ..... c 24 N92-10070 *
US-PATENT-CLASS-156-16 ..... c 74 N75-12732 *
US-PATENT-CLASS-156-172 ..... c 15 N71-17651 *
US-PATENT-CLASS-156-172 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-17 ..... c 76 N79-21910 *
US-PATENT-CLASS-156-187 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-18 ..... c 26 N73-26752 *
US-PATENT-CLASS-156-18 ..... c 74 N75-12732 *
US-PATENT-CLASS-156-191 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-212 ..... c 03 N71-26726 *
US-PATENT-CLASS-156-212 ..... c 24 N80-26388 *
US-PATENT-CLASS-156-212 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-213 ..... c 24 N80-26388 *
US-PATENT-CLASS-156-215 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-218 ..... c 54 N74-32546 *
US-PATENT-CLASS-156-229 ..... c 24 N77-28225 *
US-PATENT-CLASS-156-229 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-230 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-233 ..... c 35 N88-30108 *
US-PATENT-CLASS-156-235 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-242 ..... c 15 N69-24322 * #
US-PATENT-CLASS-156-242 ..... c 37 N76-24575 *
US-PATENT-CLASS-156-242 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-245 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-245 ..... c 24 N78-17149 *
US-PATENT-CLASS-156-245 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-247 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-247 ..... c 35 N88-30108 *
US-PATENT-CLASS-156-249 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-250 ..... c 03 N72-25019 *
US-PATENT-CLASS-156-252 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-264 ..... c 05 N72-25121 *
US-PATENT-CLASS-156-264 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-264 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-264 ..... c 31 N83-34073 *
US-PATENT-CLASS-156-267 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-272.4 .... c 31 N85-29083 *
US-PATENT-CLASS-156-272.4 .... c 35 N88-30108 *
US-PATENT-CLASS-156-272 ..... c 27 N80-32516 *
US-PATENT-CLASS-156-272 ..... c 33 N82-26571 *
US-PATENT-CLASS-156-273.7 .... c 27 N85-20125 *
US-PATENT-CLASS-156-273.9 .... c 31 N85-29083 *
US-PATENT-CLASS-156-274.8 .... c 35 N88-30108 *
US-PATENT-CLASS-156-275.5 .... c 35 N88-30108 *
US-PATENT-CLASS-156-278 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-279 ..... c 33 N93-18285 *
US-PATENT-CLASS-156-283 ..... c 24 N92-10070 *
US-PATENT-CLASS-156-285 ..... c 15 N71-23052 *
US-PATENT-CLASS-156-285 ..... c 18 N73-30532 *
US-PATENT-CLASS-156-285 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-285 ..... c 24 N74-27035 *
US-PATENT-CLASS-156-285 ..... c 24 N78-17149 *
US-PATENT-CLASS-156-285 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-285 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-285 ..... c 24 N80-26388 *
US-PATENT-CLASS-156-285 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-285 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-285 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-286 ..... c 37 N76-21554 *
US-PATENT-CLASS-156-286 ..... c 37 N76-24575 *
US-PATENT-CLASS-156-286 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-286 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-286 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-289 ..... c 24 N78-17149 *
US-PATENT-CLASS-156-289 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-289 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-289 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-289 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-290 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-292 ..... c 27 N80-32516 *
US-PATENT-CLASS-156-292 ..... c 24 N81-17170 *
US-PATENT-CLASS-156-294 ..... c 37 N81-14317 *
US-PATENT-CLASS-156-294 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-294 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-295 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-297 ..... c 27 N89-12741 *
US-PATENT-CLASS-156-298 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-299 ..... c 27 N89-12741 *
US-PATENT-CLASS-156-300 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-303 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-304.3 .... c 27 N84-22748 *
US-PATENT-CLASS-156-304.6 .... c 27 N84-22748 *
US-PATENT-CLASS-156-306 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-307.1 .... c 37 N87-23981 *
US-PATENT-CLASS-156-307.3 .... c 27 N82-11206 *
US-PATENT-CLASS-156-307.3 .... c 37 N87-23981 *
US-PATENT-CLASS-156-307.5 .... c 27 N82-11206 *
US-PATENT-CLASS-156-307.7 .... c 37 N87-23981 *
US-PATENT-CLASS-156-307.7 .... c 35 N88-30108 *
US-PATENT-CLASS-156-307 ..... c 27 N86-20561 *
US-PATENT-CLASS-156-308 ..... c 05 N72-25121 *
US-PATENT-CLASS-156-309.9 .... c 27 N86-20561 *
US-PATENT-CLASS-156-309 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-309 ..... c 27 N78-17205 *
US-PATENT-CLASS-156-311 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-312 ..... c 44 N80-18550 *

US-PATENT-CLASS-156-315 ..... c 27 N82-24340 *
US-PATENT-CLASS-156-320 ..... c 15 N72-11392 *
US-PATENT-CLASS-156-323 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-329 ..... c 27 N82-29456 *
US-PATENT-CLASS-156-330 ..... c 24 N81-14000 *
US-PATENT-CLASS-156-331.5 .... c 27 N82-11206 *
US-PATENT-CLASS-156-331.5 .... c 27 N86-20561 *
US-PATENT-CLASS-156-331 ..... c 37 N74-18126 *
US-PATENT-CLASS-156-331 ..... c 27 N78-17205 *
US-PATENT-CLASS-156-331 ..... c 24 N79-16915 *
US-PATENT-CLASS-156-331 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-338 ..... c 27 N82-24340 *
US-PATENT-CLASS-156-344 ..... c 28 N81-14103 *
US-PATENT-CLASS-156-344 ..... c 31 N83-34073 *
US-PATENT-CLASS-156-344 ..... c 31 N90-19427 *
US-PATENT-CLASS-156-344 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-345 ..... c 15 N70-42033 *
US-PATENT-CLASS-156-345 ..... c 31 N87-21160 *
US-PATENT-CLASS-156-345 ..... c 25 N91-31258 *
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US-PATENT-CLASS-156-380.2 .... c 31 N85-29083 *
US-PATENT-CLASS-156-382 ..... c 37 N76-21554 *
US-PATENT-CLASS-156-382 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-382 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-391 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-3 ..... c 17 N71-16044 *
US-PATENT-CLASS-156-3 ..... c 15 N71-21404 *
US-PATENT-CLASS-156-3 ..... c 15 N71-24047 *
US-PATENT-CLASS-156-3 ..... c 06 N72-21094 *
US-PATENT-CLASS-156-423 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-494 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-499 ..... c 27 N84-22748 *
US-PATENT-CLASS-156-510 ..... c 15 N71-17687 *
US-PATENT-CLASS-156-510 ..... c 03 N72-25019 *
US-PATENT-CLASS-156-52 ..... c 31 N79-21226 *
US-PATENT-CLASS-156-540 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-545 ..... c 15 N71-24164 *
US-PATENT-CLASS-156-556 ..... c 37 N76-21554 *
US-PATENT-CLASS-156-59 ..... c 31 N83-34073 *
US-PATENT-CLASS-156-600 ..... c 27 N83-36220 *
US-PATENT-CLASS-156-600 ..... c 76 N90-23242 *
US-PATENT-CLASS-156-600 ..... c 76 N90-24169 *
US-PATENT-CLASS-156-600 ..... c 76 N92-34171 *
US-PATENT-CLASS-156-601 ..... c 76 N77-32919 *
US-PATENT-CLASS-156-601 ..... c 76 N80-32245 *
US-PATENT-CLASS-156-601 ..... c 76 N90-24169 *
US-PATENT-CLASS-156-602 ..... c 76 N82-30105 *
US-PATENT-CLASS-156-605 ..... c 44 N80-24741 *
US-PATENT-CLASS-156-607 ..... c 76 N87-23286 *
US-PATENT-CLASS-156-607 ..... c 76 N88-24544 *
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US-PATENT-CLASS-156-608 ..... c 76 N79-11920 *
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US-PATENT-CLASS-156-608 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-608 ..... c 76 N83-35888 *
US-PATENT-CLASS-156-608 ..... c 76 N84-35113 *
US-PATENT-CLASS-156-608 ..... c 76 N90-23242 *
US-PATENT-CLASS-156-608 ..... c 76 N91-15898 *
US-PATENT-CLASS-156-608 ..... c 76 N92-21499 *
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US-PATENT-CLASS-156-610 ..... c 76 N76-25049 *
US-PATENT-CLASS-156-610 ..... c 27 N83-36220 *
US-PATENT-CLASS-156-610 ..... c 76 N86-28760 *
US-PATENT-CLASS-156-612 ..... c 76 N76-25049 *
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US-PATENT-CLASS-156-612 ..... c 76 N85-30922 *
US-PATENT-CLASS-156-613 ..... c 76 N76-25049 *
US-PATENT-CLASS-156-613 ..... c 44 N76-28635 *
US-PATENT-CLASS-156-614 ..... c 44 N76-28635 *
US-PATENT-CLASS-156-616.41 .. c 76 N90-20896 *
US-PATENT-CLASS-156-616.4 .... c 76 N90-20896 *
US-PATENT-CLASS-156-617.1 .... c 76 N91-15898 *
US-PATENT-CLASS-156-617.1 .... c 76 N92-21499 *
US-PATENT-CLASS-156-617-H ... c 76 N87-23286 *
US-PATENT-CLASS-156-617-SP . c 76 N84-35113 *
US-PATENT-CLASS-156-617-SP . c 76 N87-23286 *
US-PATENT-CLASS-156-617-V ... c 76 N84-35113 *
US-PATENT-CLASS-156-617SP .. c 76 N79-11920 *
US-PATENT-CLASS-156-617SP .. c 76 N79-23798 *
US-PATENT-CLASS-156-617SP .. c 44 N80-24741 *
US-PATENT-CLASS-156-617SP .. c 76 N80-32245 *
US-PATENT-CLASS-156-619 ..... c 76 N77-32919 *
US-PATENT-CLASS-156-620.1 .... c 76 N91-15898 *
US-PATENT-CLASS-156-620.1 .... c 76 N92-21499 *
US-PATENT-CLASS-156-620.3 .... c 76 N92-21499 *
US-PATENT-CLASS-156-620.4 .... c 76 N92-21499 *
US-PATENT-CLASS-156-620.76 .. c 76 N88-24545 *
US-PATENT-CLASS-156-620 ..... c 76 N77-32919 *
US-PATENT-CLASS-156-621 ..... c 76 N88-14835 *
US-PATENT-CLASS-156-621 ..... c 76 N88-24544 *
US-PATENT-CLASS-156-621 ..... c 76 N92-34171 *
US-PATENT-CLASS-156-622 ..... c 76 N88-14835 *
US-PATENT-CLASS-156-623Q .... c 76 N85-29800 *
US-PATENT-CLASS-156-624 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-624 ..... c 76 N86-28760 *
US-PATENT-CLASS-156-624 ..... c 76 N88-14835 *
US-PATENT-CLASS-156-624 ..... c 76 N88-24544 *
US-PATENT-CLASS-156-625 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-630 ..... c 35 N84-22930 *
US-PATENT-CLASS-156-633 ..... c 44 N78-25529 *
US-PATENT-CLASS-156-634 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-635 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-637 ..... c 76 N92-10681 *
US-PATENT-CLASS-156-643 ..... c 52 N84-23095 *
US-PATENT-CLASS-156-643 ..... c 31 N87-21160 *
US-PATENT-CLASS-156-643 ..... c 25 N91-31258 *
US-PATENT-CLASS-156-643 ..... c 76 N92-22040 *
US-PATENT-CLASS-156-644 ..... c 52 N84-23095 *
US-PATENT-CLASS-156-645 ..... c 27 N77-32308 *
US-PATENT-CLASS-156-646 ..... c 31 N87-21160 *
US-PATENT-CLASS-156-647 ..... c 33 N81-26360 *
US-PATENT-CLASS-156-648 ..... c 33 N81-26360 *
US-PATENT-CLASS-156-649 ..... c 33 N81-26360 *
US-PATENT-CLASS-156-64 ..... c 33 N93-18285 *
US-PATENT-CLASS-156-654 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-654 ..... c 35 N84-22930 *
US-PATENT-CLASS-156-656 ..... c 25 N92-25399 * #
US-PATENT-CLASS-156-659.1 .... c 31 N87-21160 *
US-PATENT-CLASS-156-661.1 .... c 31 N87-21160 *
US-PATENT-CLASS-156-662 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-663 ..... c 27 N77-32308 *
US-PATENT-CLASS-156-664 ..... c 25 N92-25399 * #
US-PATENT-CLASS-156-668 ..... c 52 N84-23095 *
US-PATENT-CLASS-156-668 ..... c 25 N91-31258 *
US-PATENT-CLASS-156-66 ..... c 15 N72-11392 *
US-PATENT-CLASS-156-71 ..... c 33 N82-26571 *
US-PATENT-CLASS-156-71 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-74 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-7 ..... c 74 N75-12732 *
US-PATENT-CLASS-156-81 ..... c 27 N84-22748 *
US-PATENT-CLASS-156-84 ..... c 15 N72-16330 *
US-PATENT-CLASS-156-84 ..... c 37 N82-24491 *
US-PATENT-CLASS-156-85 ..... c 37 N82-24491 *
US-PATENT-CLASS-156-86 ..... c 15 N72-16330 *
US-PATENT-CLASS-156-86 ..... c 37 N82-24491 *
US-PATENT-CLASS-156-87 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-89 ..... c 37 N75-15992 *
US-PATENT-CLASS-156-89 ..... c 24 N79-25143 *
US-PATENT-CLASS-156-89 ..... c 27 N84-22748 *
US-PATENT-CLASS-156-904 ..... c 31 N87-21160 *
US-PATENT-CLASS-156-905 ..... c 35 N84-22930 *
US-PATENT-CLASS-156-94 ..... c 32 N74-27612 *
US-PATENT-CLASS-156-94 ..... c 24 N74-30001 *
US-PATENT-CLASS-156-99 ..... c 37 N75-15992 *
US-PATENT-CLASS-159-3 ..... c 25 N88-23846 *
US-PATENT-CLASS-159-48.2 ..... c 25 N88-23846 *
US-PATENT-CLASS-159-900 ..... c 25 N88-23846 *
US-PATENT-CLASS-16-111R ..... c 37 N92-29092 *
US-PATENT-CLASS-16-114R ..... c 37 N92-29092 *
US-PATENT-CLASS-16-242 ..... c 31 N86-19479 *
US-PATENT-CLASS-16-292 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-294 ..... c 37 N86-19605 *
US-PATENT-CLASS-16-294 ..... c 18 N87-14373 *
US-PATENT-CLASS-16-297 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-326 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-332 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-345 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-347 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-349 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-370 ..... c 18 N87-14373 *
US-PATENT-CLASS-16-390 ..... c 31 N86-19479 *
US-PATENT-CLASS-160-23R ..... c 37 N87-17036 *
US-PATENT-CLASS-160-265 ..... c 37 N87-17036 *
US-PATENT-CLASS-161-115 ..... c 18 N70-41583 *
US-PATENT-CLASS-161-116 ..... c 37 N74-23064 *
US-PATENT-CLASS-161-127 ..... c 18 N72-25540 *
US-PATENT-CLASS-161-127 ..... c 18 N72-25541 *
US-PATENT-CLASS-161-161 ..... c 33 N71-25351 *
US-PATENT-CLASS-161-182 ..... c 15 N69-39735 * #
US-PATENT-CLASS-161-182 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-189 ..... c 23 N71-15978 *
US-PATENT-CLASS-161-192 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-196 ..... c 37 N74-21063 *
US-PATENT-CLASS-161-214 ..... c 06 N73-27980 *
US-PATENT-CLASS-161-227 ..... c 06 N73-27980 *
US-PATENT-CLASS-161-42 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-43 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-67 ..... c 33 N72-17947 *
US-PATENT-CLASS-161-68 ..... c 18 N71-21651 *
US-PATENT-CLASS-161-68 ..... c 18 N72-25540 *
US-PATENT-CLASS-161-68 ..... c 18 N72-25541 *
US-PATENT-CLASS-161-69 ..... c 33 N71-24858 *
US-PATENT-CLASS-161-7 ..... c 18 N72-25540 *
US-PATENT-CLASS-161-7 ..... c 18 N72-25541 *
US-PATENT-CLASS-161-89 ..... c 17 N71-28747 *
US-PATENT-CLASS-161-92 ..... c 37 N75-26371 *
US-PATENT-CLASS-161-93 ..... c 18 N73-12604 *
US-PATENT-CLASS-161-93 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-93 ..... c 37 N75-26371 *
US-PATENT-CLASS-162-102 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-14 ..... c 85 N79-17747 *
US-PATENT-CLASS-162-153 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-222 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-228 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-29 ..... c 85 N79-17747 *
US-PATENT-CLASS-164-105 ..... c 20 N79-21123 *
US-PATENT-CLASS-164-113 ..... c 31 N90-21216 *
US-PATENT-CLASS-164-119 ..... c 24 N84-16262 *
US-PATENT-CLASS-164-122.1 .... c 26 N91-14462 *
US-PATENT-CLASS-164-132 ..... c 37 N76-23570 *
US-PATENT-CLASS-164-284 ..... c 31 N90-21216 *
US-PATENT-CLASS-164-331.12 .. c 27 N83-34041 *
US-PATENT-CLASS-164-338.1 .... c 26 N91-14462 *
US-PATENT-CLASS-164-60 ..... c 24 N77-27187 *
US-PATENT-CLASS-165-DIG.6 .... c 34 N84-22903 *
US-PATENT-CLASS-165-104.14 .. c 05 N81-26114 *
US-PATENT-CLASS-165-104.14 .. c 34 N85-29179 *
US-PATENT-CLASS-165-104.14 .. c 34 N86-27593 *
US-PATENT-CLASS-165-104.14 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.14 .. c 34 N88-23958 *
US-PATENT-CLASS-165-104.14 .. c 34 N89-14392 *
US-PATENT-CLASS-165-104.14 .. c 34 N91-21473 *
US-PATENT-CLASS-165-104.14 .. c 34 N92-29125 *
US-PATENT-CLASS-165-104.22 .. c 34 N92-29125 *
US-PATENT-CLASS-165-104.25 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.26 .. c 74 N83-19596 *
US-PATENT-CLASS-165-104.26 .. c 34 N83-35307 *
US-PATENT-CLASS-165-104.26 .. c 34 N85-21568 *
US-PATENT-CLASS-165-104.26 .. c 34 N85-29180 *
US-PATENT-CLASS-165-104.26 .. c 34 N86-27593 *
US-PATENT-CLASS-165-104.26 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.26 .. c 34 N88-29133 *
US-PATENT-CLASS-165-104.26 .. c 34 N89-14392 *
US-PATENT-CLASS-165-104.26 .. c 27 N90-23541 *
US-PATENT-CLASS-165-104.26 .. c 31 N90-23587 *
US-PATENT-CLASS-165-104.31 .. c 31 N91-15424 *
US-PATENT-CLASS-165-104.31 .. c 34 N92-28752 *
US-PATENT-CLASS-165-104.34 .. c 34 N92-28752 *
US-PATENT-CLASS-165-104 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-104 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-105 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-105 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-105 ..... c 33 N72-17948 *
US-PATENT-CLASS-165-105 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-105 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-105 ..... c 34 N74-18552 *
US-PATENT-CLASS-165-105 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-105 ..... c 44 N75-32581 *
US-PATENT-CLASS-165-105 ..... c 44 N76-16612 *
US-PATENT-CLASS-165-105 ..... c 34 N76-17317 *
US-PATENT-CLASS-165-105 ..... c 34 N76-27515 *
US-PATENT-CLASS-165-105 ..... c 34 N77-32413 *
US-PATENT-CLASS-165-105 ..... c 25 N78-10224 *
US-PATENT-CLASS-165-105 ..... c 34 N78-17336 *
US-PATENT-CLASS-165-105 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-105 ..... c 44 N79-18443 *
US-PATENT-CLASS-165-105 ..... c 37 N79-28549 *
US-PATENT-CLASS-165-105 ..... c 34 N79-31523 *
US-PATENT-CLASS-165-105 ..... c 35 N81-14287 *
US-PATENT-CLASS-165-106 ..... c 33 N73-32818 *
US-PATENT-CLASS-165-106 ..... c 34 N76-17317 *
US-PATENT-CLASS-165-107 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-107 ..... c 44 N77-32581 *
US-PATENT-CLASS-165-109.1 .... c 34 N92-28752 *
US-PATENT-CLASS-165-109 ..... c 35 N74-15093 *
US-PATENT-CLASS-165-10 ..... c 44 N76-31667 *
US-PATENT-CLASS-165-110 ..... c 77 N75-20139 *
US-PATENT-CLASS-165-110 ..... c 34 N92-28752 *
US-PATENT-CLASS-165-111 ..... c 77 N75-20139 *
US-PATENT-CLASS-165-12 ..... c 33 N71-24276 *
US-PATENT-CLASS-165-12 ..... c 34 N83-34221 *
US-PATENT-CLASS-165-133 ..... c 33 N71-16277 *
US-PATENT-CLASS-165-133 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-133 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-133 ..... c 44 N76-23675 *
US-PATENT-CLASS-165-133 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-134R .... c 74 N83-19596 *
US-PATENT-CLASS-165-134 ..... c 34 N78-17336 *
US-PATENT-CLASS-165-135 ..... c 34 N84-22903 *
US-PATENT-CLASS-165-138 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-13 ..... c 34 N88-23958 *
US-PATENT-CLASS-165-141 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-146 ..... c 34 N79-13289 *
US-PATENT-CLASS-165-155 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-156 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-158 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-161 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-164 ..... c 34 N77-10463 *
US-PATENT-CLASS-165-166 ..... c 54 N77-32722 *
US-PATENT-CLASS-165-169 ..... c 34 N79-13288 *
US-PATENT-CLASS-165-169 ..... c 34 N79-13289 *
US-PATENT-CLASS-165-16 ..... c 31 N80-32583 *
US-PATENT-CLASS-165-170 ..... c 34 N77-10463 *
US-PATENT-CLASS-165-170 ..... c 34 N88-29132 *
US-PATENT-CLASS-165-174 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-180 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-185 ..... c 28 N73-32606 *

US-PATENT-CLASS-165-185 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-185 ..... c 31 N91-27385 *
US-PATENT-CLASS-165-1 ..... c 09 N70-41717 *
US-PATENT-CLASS-165-1 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-1 ..... c 34 N85-29180 *
US-PATENT-CLASS-165-1 ..... c 34 N87-22950 *
US-PATENT-CLASS-165-1 ..... c 34 N88-23958 *
US-PATENT-CLASS-165-1 ..... c 31 N91-27385 *
US-PATENT-CLASS-165-1 ..... c 54 N92-21589 *
US-PATENT-CLASS-165-20 ..... c 03 N72-28025 *
US-PATENT-CLASS-165-20 ..... c 35 N91-21496 *
US-PATENT-CLASS-165-2 ..... c 33 N71-24876 *
US-PATENT-CLASS-165-2 ..... c 35 N74-15093 *
US-PATENT-CLASS-165-2 ..... c 44 N77-32581 *
US-PATENT-CLASS-165-2 ..... c 44 N78-17460 *
US-PATENT-CLASS-165-2 ..... c 51 N79-10694 *
US-PATENT-CLASS-165-2 ..... c 27 N83-36220 *
US-PATENT-CLASS-165-30 ..... c 51 N79-10694 *
US-PATENT-CLASS-165-30 ..... c 31 N79-17029 *
US-PATENT-CLASS-165-30 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-32 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-32 ..... c 33 N73-32818 *
US-PATENT-CLASS-165-32 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-32 ..... c 34 N79-31523 *
US-PATENT-CLASS-165-32 ..... c 44 N80-20810 *
US-PATENT-CLASS-165-32 ..... c 33 N82-24419 *
US-PATENT-CLASS-165-32 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-32 ..... c 34 N83-35307 *
US-PATENT-CLASS-165-32 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-32 ..... c 34 N85-29179 *
US-PATENT-CLASS-165-32 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-34 ..... c 34 N87-22950 *
US-PATENT-CLASS-165-3 ..... c 03 N72-28025 *
US-PATENT-CLASS-165-41 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-41 ..... c 34 N86-27593 *
US-PATENT-CLASS-165-41 ..... c 34 N88-23958 *
US-PATENT-CLASS-165-41 ..... c 35 N89-12048 *
US-PATENT-CLASS-165-41 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-41 ..... c 27 N90-23541 *
US-PATENT-CLASS-165-41 ..... c 31 N90-23587 *
US-PATENT-CLASS-165-41 ..... c 31 N91-15424 *
US-PATENT-CLASS-165-41 ..... c 54 N92-21589 *
US-PATENT-CLASS-165-41 ..... c 34 N92-28752 *
US-PATENT-CLASS-165-41 ..... c 34 N92-29125 *
US-PATENT-CLASS-165-44 ..... c 15 N71-26611 *
US-PATENT-CLASS-165-46 ..... c 05 N71-19439 *
US-PATENT-CLASS-165-46 ..... c 05 N71-24147 *
US-PATENT-CLASS-165-46 ..... c 05 N73-20137 *
US-PATENT-CLASS-165-46 ..... c 05 N73-26071 *
US-PATENT-CLASS-165-46 ..... c 54 N82-29002 *
US-PATENT-CLASS-165-46 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-47 ..... c 33 N71-29052 *
US-PATENT-CLASS-165-47 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-47 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-48.2 ..... c 54 N92-21589 *
US-PATENT-CLASS-165-48R ..... c 35 N85-29214 *
US-PATENT-CLASS-165-4 ..... c 34 N92-28752 *
US-PATENT-CLASS-165-58 ..... c 27 N83-36220 *
US-PATENT-CLASS-165-61 ..... c 34 N83-34221 *
US-PATENT-CLASS-165-61 ..... c 35 N85-29214 *
US-PATENT-CLASS-165-61 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-61 ..... c 31 N89-12785 *
US-PATENT-CLASS-165-64 ..... c 35 N85-29214 *
US-PATENT-CLASS-165-65 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-76 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-76 ..... c 37 N86-32736 * #
US-PATENT-CLASS-165-78 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-80E ..... c 34 N83-34221 *
US-PATENT-CLASS-165-81 ..... c 34 N88-29132 *
US-PATENT-CLASS-165-81 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-83 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-86 ..... c 15 N71-26611 *
US-PATENT-CLASS-165-86 ..... c 33 N71-29046 *
US-PATENT-CLASS-165-86 ..... c 34 N91-21473 *
US-PATENT-CLASS-165-86 ..... c 54 N92-21589 *
US-PATENT-CLASS-165-904 ..... c 35 N89-12048 *
US-PATENT-CLASS-165-904 ..... c 31 N91-15424 *
US-PATENT-CLASS-165-904 ..... c 54 N92-21589 *
US-PATENT-CLASS-165-905 ..... c 34 N88-29133 *
US-PATENT-CLASS-165-905 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-905 ..... c 27 N90-23541 *
US-PATENT-CLASS-165-96 ..... c 33 N70-36847 *
US-PATENT-CLASS-165-96 ..... c 33 N71-22890 *
US-PATENT-CLASS-165-96 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-96 ..... c 33 N73-32818 *
US-PATENT-CLASS-165-96 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-96 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-96 ..... c 31 N89-12785 *
US-PATENT-CLASS-165-96 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-96 ..... c 34 N91-21473 *
US-PATENT-CLASS-166-222 ..... c 43 N81-26509 *
US-PATENT-CLASS-166-248 ..... c 43 N78-14452 *
US-PATENT-CLASS-166-259 ..... c 43 N78-14452 *
US-PATENT-CLASS-166-267 ..... c 25 N82-23282 *
US-PATENT-CLASS-166-303 ..... c 25 N82-23282 *
US-PATENT-CLASS-166-343 ..... c 18 N90-20126 *
US-PATENT-CLASS-166-63 ..... c 46 N79-22679 *
US-PATENT-CLASS-166-77 ..... c 43 N81-26509 *
US-PATENT-CLASS-169-28 ..... c 12 N72-21310 *
US-PATENT-CLASS-169-36 ..... c 12 N72-21310 *
US-PATENT-CLASS-169-47 ..... c 25 N83-36118 *
US-PATENT-CLASS-169-62 ..... c 31 N81-14137 *
US-PATENT-CLASS-169-70 ..... c 31 N81-14137 *
US-PATENT-CLASS-173-131 ..... c 15 N73-13463 *
US-PATENT-CLASS-173-132 ..... c 37 N76-18454 *
US-PATENT-CLASS-174-DIG.6 .... c 26 N73-26752 *
US-PATENT-CLASS-174-DIG.6 .... c 26 N73-32571 *
US-PATENT-CLASS-174-DIG.8 .... c 33 N74-22865 *
US-PATENT-CLASS-174-106R .... c 09 N72-22198 *
US-PATENT-CLASS-174-110.3 .... c 14 N71-27186 *
US-PATENT-CLASS-174-111 ..... c 33 N74-27683 *
US-PATENT-CLASS-174-115 ..... c 09 N70-38201 *
US-PATENT-CLASS-174-117FF .. c 09 N72-22198 *
US-PATENT-CLASS-174-126CP .. c 26 N73-32571 *
US-PATENT-CLASS-174-142 ..... c 33 N80-18286 *
US-PATENT-CLASS-174-145 ..... c 33 N76-16332 *
US-PATENT-CLASS-174-148 ..... c 33 N76-16332 *
US-PATENT-CLASS-174-15CA .... c 31 N79-17029 *
US-PATENT-CLASS-174-15C ..... c 33 N74-27683 *
US-PATENT-CLASS-174-18 ..... c 09 N69-21542 * #
US-PATENT-CLASS-174-28 ..... c 07 N71-27191 *
US-PATENT-CLASS-174-28 ..... c 33 N74-27683 *
US-PATENT-CLASS-174-35 ..... c 07 N71-19436 *
US-PATENT-CLASS-174-36 ..... c 09 N72-22198 *
US-PATENT-CLASS-174-52-PE ... c 33 N88-23941 *
US-PATENT-CLASS-174-52-R ..... c 33 N88-23941 *
US-PATENT-CLASS-174-52-S ..... c 33 N88-23941 *
US-PATENT-CLASS-174-52S ..... c 15 N73-14469 *
US-PATENT-CLASS-174-68.5 ..... c 15 N70-41960 *
US-PATENT-CLASS-174-69 ..... c 33 N74-22865 *
US-PATENT-CLASS-174-70R ..... c 33 N74-22865 *
US-PATENT-CLASS-174-72 ..... c 03 N69-21539 * #
US-PATENT-CLASS-174-73R ..... c 33 N80-18286 *
US-PATENT-CLASS-174-84 ..... c 15 N72-17455 *
US-PATENT-CLASS-175-1 ..... c 46 N79-22679 *
US-PATENT-CLASS-175-26 ..... c 15 N73-32362 *
US-PATENT-CLASS-175-310 ..... c 15 N70-42034 *
US-PATENT-CLASS-175-323 ..... c 14 N69-21923 * #
US-PATENT-CLASS-175-45 ..... c 35 N84-33768 *
US-PATENT-CLASS-175-78 ..... c 46 N80-10709 *
US-PATENT-CLASS-176-11 ..... c 24 N72-33681 *
US-PATENT-CLASS-176-11 ..... c 25 N76-27383 *
US-PATENT-CLASS-176-11 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-11 ..... c 25 N78-27226 *
US-PATENT-CLASS-176-14 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-169 ..... c 22 N73-32528 *
US-PATENT-CLASS-176-16 ..... c 25 N76-27383 *
US-PATENT-CLASS-176-16 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-16 ..... c 25 N78-27226 *
US-PATENT-CLASS-176-22 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-33 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-39 ..... c 73 N78-19920 *
US-PATENT-CLASS-176-39 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-3 ..... c 75 N75-13625 *
US-PATENT-CLASS-176-45 ..... c 22 N71-28759 *
US-PATENT-CLASS-176-86G ..... c 22 N72-20597 *
US-PATENT-CLASS-177-147 ..... c 35 N85-20294 *
US-PATENT-CLASS-177-1 ..... c 35 N77-19385 *
US-PATENT-CLASS-177-200 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-208 ..... c 35 N77-19385 *
US-PATENT-CLASS-177-210 ..... c 14 N71-10773 *
US-PATENT-CLASS-177-211 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-246 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-260 ..... c 35 N85-20294 *
US-PATENT-CLASS-178-DIG.12 . c 07 N72-12081 *
US-PATENT-CLASS-178-DIG.12 . c 32 N75-21485 *
US-PATENT-CLASS-178-DIG.1 .... c 36 N74-20009 *
US-PATENT-CLASS-178-DIG.1 .... c 33 N75-30431 *
US-PATENT-CLASS-178-DIG.1 .... c 45 N76-17656 *
US-PATENT-CLASS-178-DIG.20 c 18 N76-14186 *
US-PATENT-CLASS-178-DIG.20 . c 23 N72-27728 *
US-PATENT-CLASS-178-DIG.20 . c 35 N75-19613 *
US-PATENT-CLASS-178-DIG.21 . c 16 N72-13437 *
US-PATENT-CLASS-178-DIG.23 . c 07 N73-30115 *
US-PATENT-CLASS-178-DIG.25 . c 74 N75-25706 *
US-PATENT-CLASS-178-DIG.28 . c 08 N72-22164 *
US-PATENT-CLASS-178-DIG.29 . c 35 N75-25123 *
US-PATENT-CLASS-178-DIG.32 . c 71 N74-21014 *
US-PATENT-CLASS-178-DIG.35 . c 09 N76-24280 *
US-PATENT-CLASS-178-DIG.36 . c 08 N72-22164 *
US-PATENT-CLASS-178-DIG.6 .... c 10 N73-13235 *
US-PATENT-CLASS-178-DIG.8 .... c 14 N72-25412 *
US-PATENT-CLASS-178-DIG.8 .... c 45 N76-17656 *
US-PATENT-CLASS-178-15 ..... c 33 N75-19517 *
US-PATENT-CLASS-178-18 ..... c 10 N73-32143 *
US-PATENT-CLASS-178-22.16 .... c 32 N82-31583 *
US-PATENT-CLASS-178-22.17 .... c 32 N82-31583 *
US-PATENT-CLASS-178-5.2R ..... c 09 N71-28618 *
US-PATENT-CLASS-178-5.2R ..... c 07 N72-17109 *
US-PATENT-CLASS-178-5.4 ..... c 07 N72-17109 *
US-PATENT-CLASS-178-5.8R ..... c 71 N74-21014 *
US-PATENT-CLASS-178-50 ..... c 08 N72-18184 *
US-PATENT-CLASS-178-50 ..... c 08 N72-25208 *
US-PATENT-CLASS-178-52 ..... c 08 N72-22162 *
US-PATENT-CLASS-178-54CF .... c 09 N71-28618 *
US-PATENT-CLASS-178-54PE .... c 09 N71-28618 *
US-PATENT-CLASS-178-58A ..... c 32 N75-21486 *
US-PATENT-CLASS-178-58R ..... c 32 N80-18252 *
US-PATENT-CLASS-178-6.5 ..... c 23 N72-27728 *
US-PATENT-CLASS-178-6.6DD ... c 07 N73-30115 *
US-PATENT-CLASS-178-6.6DD ... c 35 N74-11283 *
US-PATENT-CLASS-178-6.6 ..... c 07 N71-11300 *
US-PATENT-CLASS-178-6.6 ..... c 07 N71-26102 *
US-PATENT-CLASS-178-6.7R ..... c 35 N74-15831 *
US-PATENT-CLASS-178-6.7 ..... c 07 N72-17109 *
US-PATENT-CLASS-178-6.8 ..... c 08 N72-22164 *
US-PATENT-CLASS-178-6.8 ..... c 14 N72-25412 *
US-PATENT-CLASS-178-6.8 ..... c 07 N73-30115 *
US-PATENT-CLASS-178-6.8 ..... c 33 N75-30431 *
US-PATENT-CLASS-178-6.8 ..... c 45 N76-17656 *
US-PATENT-CLASS-178-66R ..... c 32 N75-24981 *
US-PATENT-CLASS-178-66 ..... c 09 N71-25866 *
US-PATENT-CLASS-178-66 ..... c 08 N72-18184 *
US-PATENT-CLASS-178-67 ..... c 08 N70-41961 *
US-PATENT-CLASS-178-67 ..... c 32 N74-26654 *
US-PATENT-CLASS-178-69.1 ..... c 32 N78-15323 *
US-PATENT-CLASS-178-69.4R ... c 32 N74-10132 *
US-PATENT-CLASS-178-69.5R ... c 07 N72-20140 *
US-PATENT-CLASS-178-69.5R ... c 32 N75-26195 *
US-PATENT-CLASS-178-69.5R ... c 33 N76-14371 *
US-PATENT-CLASS-178-69.5R ... c 60 N77-19760 *
US-PATENT-CLASS-178-69.5 ..... c 07 N71-11281 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-19468 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-25865 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-33407 *
US-PATENT-CLASS-178-69.5 ..... c 07 N72-25173 *
US-PATENT-CLASS-178-69.5 ..... c 07 N73-13149 *
US-PATENT-CLASS-178-69.5 ..... c 09 N73-28084 *
US-PATENT-CLASS-178-69.5 ..... c 17 N76-22245 *
US-PATENT-CLASS-178-69A ..... c 35 N75-21582 *
US-PATENT-CLASS-178-69C ..... c 32 N76-16249 *
US-PATENT-CLASS-178-6 ..... c 07 N71-19433 *
US-PATENT-CLASS-178-6 ..... c 09 N71-19449 *
US-PATENT-CLASS-178-6 ..... c 07 N71-23026 *
US-PATENT-CLASS-178-6 ..... c 07 N71-26579 *
US-PATENT-CLASS-178-6 ..... c 07 N72-12081 *
US-PATENT-CLASS-178-6 ..... c 16 N72-13437 *
US-PATENT-CLASS-178-6 ..... c 10 N73-13235 *
US-PATENT-CLASS-178-6 ..... c 36 N74-20009 *
US-PATENT-CLASS-178-7.1 ..... c 07 N71-24612 *
US-PATENT-CLASS-178-7.1 ..... c 07 N71-27341 *
US-PATENT-CLASS-178-7.1 ..... c 09 N72-17156 *
US-PATENT-CLASS-178-7.1 ..... c 32 N74-19790 *
US-PATENT-CLASS-178-7.1 ..... c 36 N75-19652 *
US-PATENT-CLASS-178-7.2R .... c 08 N72-22164 *
US-PATENT-CLASS-178-7.2 ..... c 14 N70-41807 *
US-PATENT-CLASS-178-7.2 ..... c 71 N74-21014 *
US-PATENT-CLASS-178-7.2 ..... c 35 N75-25123 *
US-PATENT-CLASS-178-7.3 ..... c 07 N71-27341 *
US-PATENT-CLASS-178-7.3 ..... c 07 N72-12081 *
US-PATENT-CLASS-178-7.5E ..... c 10 N72-31273 *
US-PATENT-CLASS-178-7.6 ..... c 36 N74-20009 *
US-PATENT-CLASS-178-7.7 ..... c 09 N71-12539 *
US-PATENT-CLASS-178-7.7 ..... c 32 N74-20813 *
US-PATENT-CLASS-178-7.89 ..... c 09 N76-24280 *
US-PATENT-CLASS-178-7.92 ..... c 14 N72-25414 *
US-PATENT-CLASS-178-79 ..... c 32 N75-21486 *
US-PATENT-CLASS-178-88 ..... c 07 N71-12392 *
US-PATENT-CLASS-178-88 ..... c 33 N74-12887 *
US-PATENT-CLASS-178-88 ..... c 32 N74-20809 *
US-PATENT-CLASS-178-88 ..... c 33 N74-27705 *
US-PATENT-CLASS-178-88 ..... c 33 N76-14371 *
US-PATENT-CLASS-178-88 ..... c 32 N76-16249 *
US-PATENT-CLASS-178-88 ..... c 32 N77-10392 *
US-PATENT-CLASS-178-88 ..... c 32 N77-24331 *
US-PATENT-CLASS-179-1DM ..... c 71 N79-23753 *
US-PATENT-CLASS-179-1MF ..... c 71 N79-23753 *
US-PATENT-CLASS-179-1MN ..... c 32 N79-23310 *
US-PATENT-CLASS-179-1P ..... c 10 N73-12244 *
US-PATENT-CLASS-179-1R ..... c 07 N71-33108 *
US-PATENT-CLASS-179-1SA ..... c 10 N73-25240 *
US-PATENT-CLASS-179-1SA ..... c 32 N76-31372 *
US-PATENT-CLASS-179-1SA ..... c 32 N77-30309 *
US-PATENT-CLASS-179-1SP ..... c 32 N77-30309 *
US-PATENT-CLASS-179-1VC ..... c 07 N71-33108 *
US-PATENT-CLASS-179-100.2A . c 21 N73-13644 *
US-PATENT-CLASS-179-100.2A . c 32 N74-27612 *
US-PATENT-CLASS-179-100.2B . c 32 N74-27612 *
US-PATENT-CLASS-179-100.2CH c 36 N74-13205 *
US-PATENT-CLASS-179-100.2CH c 35 N78-29421 *
US-PATENT-CLASS-179-100.2CH c 35 N79-16246 *
US-PATENT-CLASS-179-100.2C . c 35 N77-21392 *
US-PATENT-CLASS-179-100.2K . c 07 N72-21119 *
US-PATENT-CLASS-179-100.2MD c 35 N74-11283 *
US-PATENT-CLASS-179-100.2T .. c 35 N74-11283 *
US-PATENT-CLASS-179-100.2 .... c 09 N69-24329 * #
US-PATENT-CLASS-179-100.2 .... c 09 N71-25866 *
US-PATENT-CLASS-179-100.2 .... c 08 N71-27210 *

US-PATENT-CLASS-179-100.2 .... c 08 N71-27255 *
US-PATENT-CLASS-179-100-2CA c 09 N72-11224 *
US-PATENT-CLASS-179-100-2MD c 09 N72-11224 *
US-PATENT-CLASS-179-107R .... c 33 N78-10375 *
US-PATENT-CLASS-179-15.55R . c 08 N72-11171 *
US-PATENT-CLASS-179-15.55R . c 08 N72-33172 *
US-PATENT-CLASS-179-15AN .... c 07 N73-16121 *
US-PATENT-CLASS-179-15AT .... c 32 N74-30524 *
US-PATENT-CLASS-179-15A ..... c 08 N72-22162 *
US-PATENT-CLASS-179-15A ..... c 07 N73-26118 *
US-PATENT-CLASS-179-15BA .... c 60 N77-12721 *
US-PATENT-CLASS-179-15BA .... c 32 N80-18252 *
US-PATENT-CLASS-179-15BC .... c 08 N72-25208 *
US-PATENT-CLASS-179-15BC .... c 07 N73-16121 *
US-PATENT-CLASS-179-15BC .... c 32 N74-30523 *
US-PATENT-CLASS-179-15BC .... c 33 N75-26243 *
US-PATENT-CLASS-179-15BL .... c 08 N72-22162 *
US-PATENT-CLASS-179-15BM ... c 07 N73-26118 *
US-PATENT-CLASS-179-15BS .... c 10 N71-33407 *
US-PATENT-CLASS-179-15BS .... c 07 N72-20140 *
US-PATENT-CLASS-179-15BS .... c 07 N73-30115 *
US-PATENT-CLASS-179-15BS .... c 32 N75-26195 *
US-PATENT-CLASS-179-15BS .... c 60 N77-19760 *
US-PATENT-CLASS-179-15BV .... c 07 N72-25172 *
US-PATENT-CLASS-179-15BY .... c 32 N74-30524 *
US-PATENT-CLASS-179-15FD .... c 08 N72-25208 *
US-PATENT-CLASS-179-15FS .... c 07 N73-28012 *
US-PATENT-CLASS-179-15 ..... c 07 N69-39978 * #
US-PATENT-CLASS-179-15 ..... c 07 N71-20814 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24621 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24622 *
US-PATENT-CLASS-179-15 ..... c 08 N72-18184 *
US-PATENT-CLASS-179-175.1A . c 14 N73-27379 *
US-PATENT-CLASS-179-175.1A . c 33 N78-10375 *
US-PATENT-CLASS-179-18BC .... c 32 N86-27513 *
US-PATENT-CLASS-179-18GF .... c 33 N82-29538 *
US-PATENT-CLASS-179-1 ..... c 07 N71-26181 *
US-PATENT-CLASS-179-1 ..... c 31 N71-33160 *
US-PATENT-CLASS-179-27CA .... c 32 N79-23310 *
US-PATENT-CLASS-179-78 ..... c 33 N81-27397 *
US-PATENT-CLASS-179-84VF .... c 32 N79-23310 *
US-PATENT-CLASS-179-91R ..... c 74 N78-14889 *
US-PATENT-CLASS-18-26 ..... c 06 N71-22975 *
US-PATENT-CLASS-18-39 ..... c 27 N70-34783 *
US-PATENT-CLASS-18-6 ..... c 15 N71-26721 *
US-PATENT-CLASS-180-105E .... c 11 N72-20244 *
US-PATENT-CLASS-180-118 ..... c 31 N71-15689 *
US-PATENT-CLASS-180-121 ..... c 31 N71-15689 *
US-PATENT-CLASS-180-125 ..... c 15 N72-17451 *
US-PATENT-CLASS-180-127 ..... c 15 N72-17451 *
US-PATENT-CLASS-180-168 ..... c 35 N84-33769 *
US-PATENT-CLASS-180-19.2 ..... c 85 N87-21755 *
US-PATENT-CLASS-180-305 ..... c 85 N87-21755 *
US-PATENT-CLASS-180-41 ..... c 11 N73-26238 *
US-PATENT-CLASS-180-6.5 ..... c 11 N73-26238 *
US-PATENT-CLASS-180-7R ..... c 11 N73-26238 *
US-PATENT-CLASS-180-79.3 ..... c 37 N74-18125 *
US-PATENT-CLASS-180-8.6 ..... c 18 N88-23828 *
US-PATENT-CLASS-180-8A ..... c 11 N73-26238 *
US-PATENT-CLASS-180-9.2R ..... c 11 N73-26238 *
US-PATENT-CLASS-180-9.5 ..... c 11 N73-26238 *
US-PATENT-CLASS-181.5R ..... c 71 N74-31148 *
US-PATENT-CLASS-181-.5 ..... c 11 N71-28779 *
US-PATENT-CLASS-181-0.5 ..... c 71 N85-30765 *
US-PATENT-CLASS-181-0.5 ..... c 71 N88-24241 *
US-PATENT-CLASS-181-0.5 ..... c 31 N90-21215 *
US-PATENT-CLASS-181-0.5 ..... c 71 N91-14808 *
US-PATENT-CLASS-181-102 ..... c 39 N80-10507 *
US-PATENT-CLASS-181-102 ..... c 31 N80-32584 *
US-PATENT-CLASS-181-105 ..... c 39 N80-10507 *
US-PATENT-CLASS-181-106 ..... c 46 N79-22679 *
US-PATENT-CLASS-181-115 ..... c 46 N79-23555 *
US-PATENT-CLASS-181-117 ..... c 46 N79-22679 *
US-PATENT-CLASS-181-120 ..... c 46 N79-23555 *
US-PATENT-CLASS-181-121 ..... c 35 N84-22933 *
US-PATENT-CLASS-181-148 ..... c 71 N79-23753 *
US-PATENT-CLASS-181-190 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-206 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-213 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-213 ..... c 07 N83-33884 *
US-PATENT-CLASS-181-214 ..... c 07 N81-14999 *
US-PATENT-CLASS-181-214 ..... c 71 N82-16800 *
US-PATENT-CLASS-181-222 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-286 ..... c 24 N90-21822 *
US-PATENT-CLASS-181-286 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-290 ..... c 24 N90-21822 *
US-PATENT-CLASS-181-290 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-293 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-295 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-33C ..... c 07 N74-32418 *
US-PATENT-CLASS-181-33F ..... c 07 N74-32418 *
US-PATENT-CLASS-181-33HB .... c 07 N74-27490 *
US-PATENT-CLASS-181-33HC .... c 07 N74-33218 *
US-PATENT-CLASS-181-33HC .... c 07 N76-18117 *
US-PATENT-CLASS-181-33H ..... c 07 N74-32418 *
US-PATENT-CLASS-181-33L ..... c 07 N74-32418 *
US-PATENT-CLASS-181-42 ..... c 07 N74-32418 *
US-PATENT-CLASS-181-43 ..... c 07 N74-15453 *
US-PATENT-CLASS-181-52 ..... c 28 N70-41582 *
US-PATENT-CLASS-182-103 ..... c 18 N89-12621 *
US-PATENT-CLASS-182-10 ..... c 15 N71-27067 *
US-PATENT-CLASS-182-129 ..... c 54 N92-16559 *
US-PATENT-CLASS-182-134 ..... c 54 N92-16559 *
US-PATENT-CLASS-182-141 ..... c 54 N92-16559 *
US-PATENT-CLASS-182-152 ..... c 31 N87-25492 *
US-PATENT-CLASS-182-178 ..... c 39 N76-31562 *
US-PATENT-CLASS-182-191 ..... c 05 N71-11199 *
US-PATENT-CLASS-182-223 ..... c 54 N87-29118 *
US-PATENT-CLASS-182-2 ..... c 54 N92-16559 *
US-PATENT-CLASS-182-5 ..... c 15 N73-25512 *
US-PATENT-CLASS-182-62.5 ..... c 31 N81-27324 *
US-PATENT-CLASS-182-63 ..... c 54 N87-29118 *
US-PATENT-CLASS-182-63 ..... c 54 N92-16559 *
US-PATENT-CLASS-182-82 ..... c 54 N87-29118 *
US-PATENT-CLASS-184-1 ..... c 15 N71-23048 *
US-PATENT-CLASS-185-38 ..... c 37 N78-16369 *
US-PATENT-CLASS-187-1 ..... c 15 N72-25453 *
US-PATENT-CLASS-187-20 ..... c 15 N72-25453 *
US-PATENT-CLASS-187-7.1 ..... c 07 N71-24742 *
US-PATENT-CLASS-187-95 ..... c 15 N72-25453 *
US-PATENT-CLASS-188-1B ..... c 15 N72-20443 *
US-PATENT-CLASS-188-1B ..... c 19 N76-22284 *
US-PATENT-CLASS-188-1C ..... c 15 N72-17450 *
US-PATENT-CLASS-188-1C ..... c 15 N72-20443 *
US-PATENT-CLASS-188-1C ..... c 15 N73-30460 *
US-PATENT-CLASS-188-1C ..... c 11 N73-32152 *
US-PATENT-CLASS-188-1C ..... c 37 N79-10420 *
US-PATENT-CLASS-188-103 ..... c 15 N71-27146 *
US-PATENT-CLASS-188-129 ..... c 15 N72-17450 *
US-PATENT-CLASS-188-134 ..... c 37 N81-15364 *
US-PATENT-CLASS-188-151A .... c 44 N79-14527 *
US-PATENT-CLASS-188-163 ..... c 37 N74-26976 *
US-PATENT-CLASS-188-171 ..... c 37 N74-26976 *
US-PATENT-CLASS-188-171 ..... c 37 N92-21728 *
US-PATENT-CLASS-188-180 ..... c 37 N81-15364 *
US-PATENT-CLASS-188-184 ..... c 37 N81-15364 *
US-PATENT-CLASS-188-1 ..... c 15 N70-34861 *
US-PATENT-CLASS-188-1 ..... c 15 N70-38601 *
US-PATENT-CLASS-188-1 ..... c 15 N70-40354 *
US-PATENT-CLASS-188-1 ..... c 14 N71-17626 *
US-PATENT-CLASS-188-1 ..... c 15 N71-22877 *
US-PATENT-CLASS-188-1 ..... c 14 N71-23092 *
US-PATENT-CLASS-188-1 ..... c 15 N71-26243 *
US-PATENT-CLASS-188-1 ..... c 15 N71-27146 *
US-PATENT-CLASS-188-1 ..... c 15 N71-27169 *
US-PATENT-CLASS-188-218-XL . c 37 N88-29181 *
US-PATENT-CLASS-188-24.11 .... c 37 N91-32514 *
US-PATENT-CLASS-188-251-A ... c 37 N88-29181 *
US-PATENT-CLASS-188-266 ..... c 15 N73-25513 *
US-PATENT-CLASS-188-268 ..... c 15 N72-20443 *
US-PATENT-CLASS-188-269 ..... c 44 N79-14527 *
US-PATENT-CLASS-188-291 ..... c 54 N77-21844 *
US-PATENT-CLASS-188-371 ..... c 37 N82-18601 *
US-PATENT-CLASS-188-373 ..... c 37 N88-23982 *
US-PATENT-CLASS-188-378 ..... c 37 N92-34173 *
US-PATENT-CLASS-188-65.1 ..... c 15 N73-25512 *
US-PATENT-CLASS-188-65.5 ..... c 15 N71-27067 *
US-PATENT-CLASS-188-82.84 .... c 37 N92-21728 *
US-PATENT-CLASS-188-82.9 ..... c 37 N92-21728 *
US-PATENT-CLASS-188-87 ..... c 12 N71-16894 *
US-PATENT-CLASS-188-88 ..... c 15 N71-26611 *
US-PATENT-CLASS-189-36 ..... c 15 N70-36947 *
US-PATENT-CLASS-19-205 ..... c 37 N76-18456 *
US-PATENT-CLASS-191-12.2-R .. c 33 N86-20669 *
US-PATENT-CLASS-192-43.1 ..... c 15 N71-17805 *
US-PATENT-CLASS-192-46 ..... c 37 N87-17037 *
US-PATENT-CLASS-192-67R ..... c 37 N87-17037 *
US-PATENT-CLASS-194-82.26 .... c 37 N90-21390 *
US-PATENT-CLASS-194-82.29 .... c 37 N90-21390 *
US-PATENT-CLASS-194-902 ..... c 37 N89-13785 *
US-PATENT-CLASS-195-1.8 ..... c 51 N77-25769 *
US-PATENT-CLASS-195-1.8 ..... c 51 N79-10694 *
US-PATENT-CLASS-195-1.8 ..... c 52 N79-14749 *
US-PATENT-CLASS-195-103.5K . c 51 N77-22794 *
US-PATENT-CLASS-195-103.5K . c 52 N79-14750 *
US-PATENT-CLASS-195-103.5L .. c 52 N79-14750 *
US-PATENT-CLASS-195-103.5R . c 06 N72-25149 *
US-PATENT-CLASS-195-103.5R . c 25 N75-12086 *
US-PATENT-CLASS-195-103.5R . c 35 N75-27330 *
US-PATENT-CLASS-195-103.5R . c 35 N75-33368 *
US-PATENT-CLASS-195-103.5R . c 51 N76-29891 *
US-PATENT-CLASS-195-103.5R . c 51 N77-22794 *
US-PATENT-CLASS-195-103.5R . c 25 N79-22235 *
US-PATENT-CLASS-195-120 ..... c 51 N75-13502 *
US-PATENT-CLASS-195-120 ..... c 35 N75-27330 *
US-PATENT-CLASS-195-127 ..... c 15 N72-21465 *
US-PATENT-CLASS-195-127 ..... c 11 N72-25284 *
US-PATENT-CLASS-195-127 ..... c 14 N72-25413 *
US-PATENT-CLASS-195-127 ..... c 15 N73-20514 *
US-PATENT-CLASS-195-127 ..... c 05 N73-32011 *
US-PATENT-CLASS-195-127 ..... c 35 N75-12272 *
US-PATENT-CLASS-195-127 ..... c 51 N75-13502 *
US-PATENT-CLASS-195-127 ..... c 35 N75-27330 *
US-PATENT-CLASS-195-127 ..... c 25 N79-22235 *
US-PATENT-CLASS-195-127 ..... c 25 N79-24073 *
US-PATENT-CLASS-195-141 ..... c 35 N75-27330 *
US-PATENT-CLASS-195-28N ..... c 06 N72-25149 *
US-PATENT-CLASS-195-66R ..... c 06 N73-27086 *
US-PATENT-CLASS-195-68 ..... c 04 N69-27487 * #
US-PATENT-CLASS-195-99 ..... c 06 N71-17705 *
US-PATENT-CLASS-197-188 ..... c 37 N77-19457 *
US-PATENT-CLASS-197-190 ..... c 37 N77-19457 *
US-PATENT-CLASS-198-847 ..... c 37 N80-32717 *
US-PATENT-CLASS-198-848 ..... c 37 N80-32717 *
US-PATENT-CLASS-1 ..... c 14 N71-27005 *
US-PATENT-CLASS-2-115 ..... c 05 N72-25119 *
US-PATENT-CLASS-2-14 ..... c 05 N71-23096 *
US-PATENT-CLASS-2-161R ..... c 54 N84-23113 *
US-PATENT-CLASS-2-161R ..... c 54 N84-28484 *
US-PATENT-CLASS-2-161 ..... c 54 N78-17677 *
US-PATENT-CLASS-2-164 ..... c 54 N84-28484 *
US-PATENT-CLASS-2-167 ..... c 54 N84-23113 *
US-PATENT-CLASS-2-167 ..... c 54 N84-28484 *
US-PATENT-CLASS-2-2.1A ..... c 05 N72-22092 *
US-PATENT-CLASS-2-2.1A ..... c 05 N73-25125 *
US-PATENT-CLASS-2-2.1A ..... c 05 N73-32012 *
US-PATENT-CLASS-2-2.1A ..... c 54 N74-32546 *
US-PATENT-CLASS-2-2.1A ..... c 54 N77-32721 *
US-PATENT-CLASS-2-2.1A ..... c 54 N78-17675 *
US-PATENT-CLASS-2-2.1A ..... c 54 N78-31735 *
US-PATENT-CLASS-2-2.1A ..... c 54 N78-31736 *
US-PATENT-CLASS-2-2.1A ..... c 54 N79-24651 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-28618 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-28619 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-28620 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-29507 * #
US-PATENT-CLASS-2-2.1A ..... c 18 N90-16860 *
US-PATENT-CLASS-2-2.1A ..... c 27 N92-10091 *
US-PATENT-CLASS-2-2.1R ..... c 54 N86-28618 *
US-PATENT-CLASS-2-2.1R ..... c 54 N86-28619 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-11194 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-11195 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-12335 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-12344 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-23161 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-24623 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-24730 *
US-PATENT-CLASS-2-2.1 ..... c 05 N72-20096 *
US-PATENT-CLASS-2-2.1 ..... c 05 N72-20098 *
US-PATENT-CLASS-2-2.1 ..... c 05 N72-25119 *
US-PATENT-CLASS-2-2.1 ..... c 05 N73-26071 *
US-PATENT-CLASS-2-2.1 ..... c 34 N78-17337 *
US-PATENT-CLASS-2-2.1 ..... c 54 N78-17678 *
US-PATENT-CLASS-2-2.1 ..... c 54 N78-18761 *
US-PATENT-CLASS-2-201 ..... c 54 N89-29953 *
US-PATENT-CLASS-2-275 ..... c 18 N71-26285 *
US-PATENT-CLASS-2-411 ..... c 27 N92-10091 *
US-PATENT-CLASS-2-424 ..... c 27 N92-10091 *
US-PATENT-CLASS-2-6 ..... c 05 N71-26333 *
US-PATENT-CLASS-2-6 ..... c 54 N78-17680 *
US-PATENT-CLASS-2-81 ..... c 18 N71-26285 *
US-PATENT-CLASS-2-81 ..... c 05 N73-32012 *
US-PATENT-CLASS-2-82 ..... c 54 N74-32546 *
US-PATENT-CLASS-200-114 ..... c 33 N79-33393 *
US-PATENT-CLASS-200-129 ..... c 33 N75-27249 *
US-PATENT-CLASS-200-152 ..... c 09 N71-19610 *
US-PATENT-CLASS-200-153S .... c 33 N80-18285 *
US-PATENT-CLASS-200-157 ..... c 08 N86-27288 *
US-PATENT-CLASS-200-19 ..... c 09 N70-39915 *
US-PATENT-CLASS-200-304 ..... c 33 N80-18285 *
US-PATENT-CLASS-200-39 ..... c 03 N70-38713 *
US-PATENT-CLASS-200-46 ..... c 74 N79-12890 *
US-PATENT-CLASS-200-61.05 .... c 25 N86-27431 *
US-PATENT-CLASS-200-61.42 .... c 09 N71-12518 *
US-PATENT-CLASS-200-61.45 .... c 14 N70-41812 *
US-PATENT-CLASS-200-61 ..... c 74 N79-12890 *
US-PATENT-CLASS-200-64 ..... c 15 N72-17455 *
US-PATENT-CLASS-200-6 ..... c 10 N71-15909 *
US-PATENT-CLASS-200-6 ..... c 09 N71-16089 *
US-PATENT-CLASS-200-81.9M ... c 09 N72-20199 *
US-PATENT-CLASS-200-81R ..... c 09 N72-22204 *
US-PATENT-CLASS-200-82C ..... c 09 N72-22204 *
US-PATENT-CLASS-200-82 ..... c 10 N71-23663 *
US-PATENT-CLASS-200-83N ..... c 35 N75-15931 *
US-PATENT-CLASS-200-83 ..... c 33 N79-33392 *
US-PATENT-CLASS-201-10 ..... c 27 N81-17261 *
US-PATENT-CLASS-201-17 ..... c 44 N78-31527 *
US-PATENT-CLASS-201-17 ..... c 25 N81-33246 *
US-PATENT-CLASS-201-17 ..... c 25 N82-29371 *
US-PATENT-CLASS-201-17 ..... c 25 N83-31743 *
US-PATENT-CLASS-201-17 ..... c 25 N85-35253 *
US-PATENT-CLASS-201-25 ..... c 27 N81-17261 *
US-PATENT-CLASS-201-8 ..... c 27 N81-17261 *
US-PATENT-CLASS-202-118 ..... c 31 N81-15154 *
US-PATENT-CLASS-202-182 ..... c 05 N71-11207 *
US-PATENT-CLASS-202-234 ..... c 15 N71-23086 *
US-PATENT-CLASS-203-12 ..... c 25 N82-28368 *
US-PATENT-CLASS-203-90 ..... c 25 N88-23846 *

US-PATENT-CLASS-203-91 ..... c 25 N88-23846 *
US-PATENT-CLASS-203-98 ..... c 25 N88-23846 *
US-PATENT-CLASS-204-DIG.11 . c 25 N77-32255 *
US-PATENT-CLASS-204-DIG.3 .... c 25 N84-12262 *
US-PATENT-CLASS-204-DIG.3 .... c 44 N84-23019 *
US-PATENT-CLASS-204-1T ..... c 25 N79-22235 *
US-PATENT-CLASS-204-1T ..... c 51 N81-28698 *
US-PATENT-CLASS-204-1T ..... c 25 N82-12166 *
US-PATENT-CLASS-204-1T ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-1T ..... c 35 N85-29212 *
US-PATENT-CLASS-204-1T ..... c 76 N85-30923 *
US-PATENT-CLASS-204-129.55 .. c 31 N83-19947 *
US-PATENT-CLASS-204-129.75 .. c 31 N83-19947 *
US-PATENT-CLASS-204-129 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-129 ..... c 25 N84-12262 *
US-PATENT-CLASS-204-129 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-129 ..... c 25 N92-28756 *
US-PATENT-CLASS-204-130 ..... c 15 N72-21466 *
US-PATENT-CLASS-204-157.1H . c 25 N74-30502 *
US-PATENT-CLASS-204-157.1H . c 37 N76-18458 *
US-PATENT-CLASS-204-157.1R . c 25 N77-32255 *
US-PATENT-CLASS-204-157.1R . c 44 N77-32580 *
US-PATENT-CLASS-204-157.1R . c 44 N79-11470 *
US-PATENT-CLASS-204-157.18AG c 15 N72-25452 *
US-PATENT-CLASS-204-157.22 .. c 25 N88-24732 *
US-PATENT-CLASS-204-157.51 .. c 25 N90-20154 *
US-PATENT-CLASS-204-158R .... c 25 N77-32255 *
US-PATENT-CLASS-204-159.11 .. c 27 N80-32516 *
US-PATENT-CLASS-204-159.14 .. c 27 N80-32516 *
US-PATENT-CLASS-204-159.15 .. c 27 N80-26446 *
US-PATENT-CLASS-204-159.19 .. c 27 N80-26446 *
US-PATENT-CLASS-204-162R .... c 25 N77-32255 *
US-PATENT-CLASS-204-164 ..... c 26 N78-32229 *
US-PATENT-CLASS-204-168 ..... c 24 N71-25555 *
US-PATENT-CLASS-204-16 ..... c 24 N77-19171 *
US-PATENT-CLASS-204-171 ..... c 27 N80-23452 *
US-PATENT-CLASS-204-175 ..... c 26 N78-32229 *
US-PATENT-CLASS-204-177 ..... c 25 N75-12087 *
US-PATENT-CLASS-204-180.1 .... c 25 N88-23845 *
US-PATENT-CLASS-204-180.1 .... c 25 N92-28728 *
US-PATENT-CLASS-204-180G .... c 25 N78-14104 *
US-PATENT-CLASS-204-180G .... c 25 N79-14169 *
US-PATENT-CLASS-204-180G .... c 37 N80-14397 *
US-PATENT-CLASS-204-180P ..... c 54 N78-14784 *
US-PATENT-CLASS-204-180R .... c 25 N74-26948 *
US-PATENT-CLASS-204-180R .... c 34 N74-27744 *
US-PATENT-CLASS-204-180R .... c 51 N80-16715 *
US-PATENT-CLASS-204-180S ..... c 25 N79-10163 *
US-PATENT-CLASS-204-180S ..... c 25 N79-14169 *
US-PATENT-CLASS-204-183.3 .... c 25 N92-28728 *
US-PATENT-CLASS-204-192.15 .. c 26 N87-25455 *
US-PATENT-CLASS-204-192.15 .. c 76 N88-24543 *
US-PATENT-CLASS-204-192.23 .. c 26 N87-25455 *
US-PATENT-CLASS-204-192.24 .. c 76 N88-24543 *
US-PATENT-CLASS-204-192.31 .. c 26 N88-14179 *
US-PATENT-CLASS-204-192.32 .. c 25 N91-31258 *
US-PATENT-CLASS-204-192-C ... c 27 N86-19458 *
US-PATENT-CLASS-204-192-D ... c 27 N86-19458 *
US-PATENT-CLASS-204-192-R ... c 27 N86-19458 *
US-PATENT-CLASS-204-192C .... c 76 N79-14906 *
US-PATENT-CLASS-204-192C .... c 26 N82-29415 *
US-PATENT-CLASS-204-192C .... c 26 N82-30371 *
US-PATENT-CLASS-204-192C .... c 24 N84-22695 *
US-PATENT-CLASS-204-192C .... c 31 N85-20153 *
US-PATENT-CLASS-204-192C .... c 24 N85-21267 *
US-PATENT-CLASS-204-192C .... c 76 N85-33826 *
US-PATENT-CLASS-204-192C .... c 27 N86-32569 *
US-PATENT-CLASS-204-192C .... c 31 N86-32587 *
US-PATENT-CLASS-204-192D .... c 27 N86-32569 *
US-PATENT-CLASS-204-192D .... c 31 N86-32587 *
US-PATENT-CLASS-204-192EC .. c 27 N82-28440 *
US-PATENT-CLASS-204-192EC .. c 27 N82-33521 *
US-PATENT-CLASS-204-192EC .. c 33 N84-22884 *
US-PATENT-CLASS-204-192E .... c 37 N81-19455 *
US-PATENT-CLASS-204-192E .... c 27 N82-28440 *
US-PATENT-CLASS-204-192E .... c 27 N82-33521 *
US-PATENT-CLASS-204-192E .... c 24 N83-10117 *
US-PATENT-CLASS-204-192E .... c 52 N84-23095 *
US-PATENT-CLASS-204-192N .... c 24 N85-21267 *
US-PATENT-CLASS-204-192N .... c 26 N85-29005 *
US-PATENT-CLASS-204-192P .... c 76 N85-33826 *
US-PATENT-CLASS-204-192R .... c 24 N84-22695 *
US-PATENT-CLASS-204-192R .... c 31 N85-20153 *
US-PATENT-CLASS-204-192R .... c 24 N85-21267 *
US-PATENT-CLASS-204-192SP .. c 24 N84-22695 *
US-PATENT-CLASS-204-192SP .. c 31 N85-20153 *
US-PATENT-CLASS-204-192 ..... c 15 N73-12487 *
US-PATENT-CLASS-204-192 ..... c 17 N73-24569 *
US-PATENT-CLASS-204-192 ..... c 27 N74-13270 *
US-PATENT-CLASS-204-192 ..... c 20 N74-31269 *
US-PATENT-CLASS-204-192 ..... c 37 N75-19684 *
US-PATENT-CLASS-204-192 ..... c 44 N77-14580 *
US-PATENT-CLASS-204-195B .... c 25 N79-24073 *
US-PATENT-CLASS-204-195B .... c 51 N80-27067 *
US-PATENT-CLASS-204-195B .... c 51 N81-28698 *
US-PATENT-CLASS-204-195B .... c 35 N82-28604 *
US-PATENT-CLASS-204-195R .... c 33 N76-19339 *
US-PATENT-CLASS-204-195S ..... c 25 N82-12166 *
US-PATENT-CLASS-204-195W ... c 35 N78-25391 *
US-PATENT-CLASS-204-195 ..... c 14 N71-17575 *
US-PATENT-CLASS-204-2.1 ..... c 44 N81-29524 *
US-PATENT-CLASS-204-20 ..... c 18 N71-16210 *
US-PATENT-CLASS-204-222 ..... c 31 N74-23065 *
US-PATENT-CLASS-204-224 ..... c 37 N80-14395 *
US-PATENT-CLASS-204-242 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-242 ..... c 25 N84-12262 *
US-PATENT-CLASS-204-252 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-263 ..... c 14 N71-28933 *
US-PATENT-CLASS-204-263 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-264 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-266 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-266 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-267 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-275 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-276 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-278 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-278 ..... c 25 N84-12262 *
US-PATENT-CLASS-204-278 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-279 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-280R .... c 25 N83-13187 *
US-PATENT-CLASS-204-280 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-286 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-290F .... c 28 N81-24280 *
US-PATENT-CLASS-204-290F .... c 44 N82-29710 *
US-PATENT-CLASS-204-290R .... c 33 N75-27252 *
US-PATENT-CLASS-204-290R .... c 28 N81-24280 *
US-PATENT-CLASS-204-290R .... c 44 N82-29710 *
US-PATENT-CLASS-204-290R .... c 25 N84-12262 *
US-PATENT-CLASS-204-290 ..... c 44 N84-28205 *
US-PATENT-CLASS-204-291 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-292 ..... c 25 N78-10225 *
US-PATENT-CLASS-204-298 ..... c 15 N70-34967 *
US-PATENT-CLASS-204-298 ..... c 09 N71-26701 *
US-PATENT-CLASS-204-298 ..... c 15 N72-32487 *
US-PATENT-CLASS-204-298 ..... c 37 N75-19684 *
US-PATENT-CLASS-204-298 ..... c 27 N86-32569 *
US-PATENT-CLASS-204-298 ..... c 31 N86-32587 *
US-PATENT-CLASS-204-298 ..... c 31 N87-21160 *
US-PATENT-CLASS-204-299-R ... c 25 N88-23845 *
US-PATENT-CLASS-204-299R .... c 25 N78-14104 *
US-PATENT-CLASS-204-299R .... c 25 N79-14169 *
US-PATENT-CLASS-204-299R .... c 37 N80-14397 *
US-PATENT-CLASS-204-299R .... c 51 N80-16715 *
US-PATENT-CLASS-204-299R .... c 25 N83-10126 *
US-PATENT-CLASS-204-299R .... c 25 N83-13187 *
US-PATENT-CLASS-204-299R .... c 27 N92-25397 *
US-PATENT-CLASS-204-299R .... c 25 N92-28728 *
US-PATENT-CLASS-204-299 ..... c 34 N74-27744 *
US-PATENT-CLASS-204-299 ..... c 25 N79-10163 *
US-PATENT-CLASS-204-300EC .. c 27 N92-25397 *
US-PATENT-CLASS-204-301 ..... c 54 N78-14784 *
US-PATENT-CLASS-204-305 ..... c 03 N71-24718 *
US-PATENT-CLASS-204-30 ..... c 09 N71-28691 *
US-PATENT-CLASS-204-32A ..... c 33 N77-26385 *
US-PATENT-CLASS-204-32R ..... c 44 N76-14595 *
US-PATENT-CLASS-204-324 ..... c 33 N73-16918 *
US-PATENT-CLASS-204-325 ..... c 33 N73-16918 *
US-PATENT-CLASS-204-328 ..... c 33 N73-16918 *
US-PATENT-CLASS-204-32 ..... c 44 N79-11469 *
US-PATENT-CLASS-204-33 ..... c 17 N71-25903 *
US-PATENT-CLASS-204-33 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-33 ..... c 44 N79-11469 *
US-PATENT-CLASS-204-33 ..... c 44 N83-34449 *
US-PATENT-CLASS-204-35N ..... c 27 N83-29388 *
US-PATENT-CLASS-204-35N ..... c 44 N83-34449 *
US-PATENT-CLASS-204-37.6 ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-37R ..... c 44 N79-11469 *
US-PATENT-CLASS-204-37R ..... c 27 N83-29388 *
US-PATENT-CLASS-204-37 ..... c 33 N71-29151 *
US-PATENT-CLASS-204-38A ..... c 44 N76-14595 *
US-PATENT-CLASS-204-38B ..... c 44 N79-11469 *
US-PATENT-CLASS-204-38B ..... c 27 N82-33521 *
US-PATENT-CLASS-204-38 ..... c 17 N71-24830 *
US-PATENT-CLASS-204-40 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-40 ..... c 24 N77-19171 *
US-PATENT-CLASS-204-42 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-430 ..... c 35 N85-29212 *
US-PATENT-CLASS-204-49 ..... c 15 N72-25452 *
US-PATENT-CLASS-204-49 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-56R ..... c 44 N83-10494 *
US-PATENT-CLASS-204-56R ..... c 27 N83-29388 *
US-PATENT-CLASS-204-56R ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-59 ..... c 15 N72-21466 *
US-PATENT-CLASS-204-9 ..... c 20 N74-32919 *
US-PATENT-CLASS-204-9 ..... c 24 N77-19171 *
US-PATENT-CLASS-204/298 ..... c 27 N86-19458 *
US-PATENT-CLASS-2041-195B .. c 25 N79-22235 *
US-PATENT-CLASS-205-343 ..... c 35 N75-30502 *
US-PATENT-CLASS-206-0.7 ..... c 31 N89-29578 *
US-PATENT-CLASS-206-364 ..... c 31 N92-33612 *
US-PATENT-CLASS-206-366 ..... c 31 N92-33612 *
US-PATENT-CLASS-206-370 ..... c 31 N92-33612 *
US-PATENT-CLASS-206-439 ..... c 52 N79-14749 *
US-PATENT-CLASS-206-447 ..... c 27 N84-14323 *
US-PATENT-CLASS-206-582 ..... c 27 N84-14323 *
US-PATENT-CLASS-206-818 ..... c 31 N92-33612 *
US-PATENT-CLASS-208-10 ..... c 25 N79-11152 *
US-PATENT-CLASS-208-10 ..... c 23 N84-16255 *
US-PATENT-CLASS-208-10 ..... c 25 N84-22709 *
US-PATENT-CLASS-208-11 ..... c 25 N86-25428 *
US-PATENT-CLASS-208-241 ..... c 25 N82-23282 *
US-PATENT-CLASS-208-8LE ..... c 23 N84-16255 *
US-PATENT-CLASS-208-8LE ..... c 25 N84-22709 *
US-PATENT-CLASS-208-8 ..... c 25 N79-11152 *
US-PATENT-CLASS-209-10 ..... c 15 N71-20440 *
US-PATENT-CLASS-209-127R .... c 35 N76-22509 *
US-PATENT-CLASS-209-250 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-300 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-305 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-349 ..... c 15 N72-22483 *
US-PATENT-CLASS-209-422 ..... c 71 N85-30765 *
US-PATENT-CLASS-209-638 ..... c 71 N85-30765 *
US-PATENT-CLASS-21-207 ..... c 17 N71-16393 *
US-PATENT-CLASS-210-DIG.23 . c 52 N79-14749 *
US-PATENT-CLASS-210-DIG.27 . c 27 N77-31308 *
US-PATENT-CLASS-210-103 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-104 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-108 ..... c 34 N79-24285 *
US-PATENT-CLASS-210-110 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-137 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-140 ..... c 51 N93-18351 *
US-PATENT-CLASS-210-142 ..... c 34 N79-24285 *
US-PATENT-CLASS-210-151 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-186 ..... c 37 N80-10494 *
US-PATENT-CLASS-210-188 ..... c 12 N72-25292 *
US-PATENT-CLASS-210-190 ..... c 51 N93-18351 *
US-PATENT-CLASS-210-192 ..... c 54 N78-14784 *
US-PATENT-CLASS-210-198.2 .... c 25 N92-33009 *
US-PATENT-CLASS-210-205 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-209 ..... c 25 N92-33029 *
US-PATENT-CLASS-210-212 ..... c 03 N72-20033 *
US-PATENT-CLASS-210-222 ..... c 35 N78-12390 *
US-PATENT-CLASS-210-222 ..... c 25 N92-33611 *
US-PATENT-CLASS-210-223. ..... c 25 N92-33611 *
US-PATENT-CLASS-210-22 ..... c 52 N80-14687 *
US-PATENT-CLASS-210-23F ..... c 51 N79-10693 *
US-PATENT-CLASS-210-23H ..... c 27 N80-23452 *
US-PATENT-CLASS-210-234 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-24R ..... c 27 N81-14076 *
US-PATENT-CLASS-210-247 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-24 ..... c 27 N77-30236 *
US-PATENT-CLASS-210-24 ..... c 25 N81-19244 *
US-PATENT-CLASS-210-257.1 .... c 29 N90-21209 *
US-PATENT-CLASS-210-259 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-266 ..... c 25 N92-33029 *
US-PATENT-CLASS-210-269 ..... c 25 N92-33029 *
US-PATENT-CLASS-210-282 ..... c 37 N87-17035 *
US-PATENT-CLASS-210-287 ..... c 25 N92-33029 *
US-PATENT-CLASS-210-28 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-304 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-314 ..... c 28 N70-41447 *
US-PATENT-CLASS-210-321.1 .... c 25 N82-21269 *
US-PATENT-CLASS-210-321.6 .... c 29 N90-21209 *
US-PATENT-CLASS-210-321B .... c 52 N80-14687 *
US-PATENT-CLASS-210-333 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-340 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-340 ..... c 37 N80-10494 *
US-PATENT-CLASS-210-340 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-355 ..... c 51 N91-14703 *
US-PATENT-CLASS-210-396 ..... c 51 N91-21701 *
US-PATENT-CLASS-210-40 ..... c 27 N77-31308 *
US-PATENT-CLASS-210-40 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-40 ..... c 45 N82-11634 *
US-PATENT-CLASS-210-411 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-414 ..... c 51 N91-14703 *
US-PATENT-CLASS-210-425 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-429 ..... c 37 N76-14463 *
US-PATENT-CLASS-210-433M .... c 51 N79-10693 *
US-PATENT-CLASS-210-445 ..... c 15 N72-11389 *
US-PATENT-CLASS-210-45 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-500.25 .. c 31 N88-29052 *
US-PATENT-CLASS-210-500.35 .. c 31 N88-29052 *
US-PATENT-CLASS-210-500M .... c 27 N80-23452 *
US-PATENT-CLASS-210-500M .... c 25 N81-17187 *
US-PATENT-CLASS-210-500 ..... c 25 N75-12087 *
US-PATENT-CLASS-210-502.1 .... c 25 N92-33009 *
US-PATENT-CLASS-210-50 ..... c 45 N79-12584 *
US-PATENT-CLASS-210-512.1 .... c 35 N90-22024 *
US-PATENT-CLASS-210-512 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-54 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-57 ..... c 45 N80-14579 *
US-PATENT-CLASS-210-602 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-605 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-60 ..... c 45 N79-12584 *
US-PATENT-CLASS-210-615 ..... c 45 N91-14662 *
US-PATENT-CLASS-210-617 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-63R ..... c 25 N78-10225 *
US-PATENT-CLASS-210-63R ..... c 45 N79-12584 *

US-PATENT-CLASS-210-63Z ..... c 45 N80-14579 *
US-PATENT-CLASS-210-635 ..... c 25 N92-33009 *
US-PATENT-CLASS-210-639 ..... c 31 N88-29052 *
US-PATENT-CLASS-210-653 ..... c 31 N88-29052 *
US-PATENT-CLASS-210-66 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-670 ..... c 25 N92-33029 *
US-PATENT-CLASS-210-670 ..... c 51 N93-18351 *
US-PATENT-CLASS-210-67 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-695 ..... c 25 N92-33611 *
US-PATENT-CLASS-210-70 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-71 ..... c 25 N78-10225 *
US-PATENT-CLASS-210-73R ..... c 85 N79-17747 *
US-PATENT-CLASS-210-739 ..... c 51 N93-18351 *
US-PATENT-CLASS-210-748 ..... c 71 N83-35781 *
US-PATENT-CLASS-210-748 ..... c 35 N84-17555 *
US-PATENT-CLASS-210-748 ..... c 54 N91-31803 * #
US-PATENT-CLASS-210-748 ..... c 25 N92-33029 *
US-PATENT-CLASS-210-748 ..... c 25 N92-33611 *
US-PATENT-CLASS-210-753 ..... c 51 N93-18351 *
US-PATENT-CLASS-210-758 ..... c 25 N92-33029 *
US-PATENT-CLASS-210-764 ..... c 51 N93-18351 *
US-PATENT-CLASS-210-767 ..... c 25 N92-33611 *
US-PATENT-CLASS-210-82 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-94 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-95 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-96.1 ..... c 51 N93-18351 *
US-PATENT-CLASS-210-96M ..... c 54 N78-14784 *
US-PATENT-CLASS-210-96M ..... c 51 N79-10693 *
US-PATENT-CLASS-210-97 ..... c 35 N90-22024 *
US-PATENT-CLASS-211-126 ..... c 35 N86-20751 *
US-PATENT-CLASS-211-74 ..... c 35 N86-20751 *
US-PATENT-CLASS-212-11 ..... c 32 N71-17609 *
US-PATENT-CLASS-212-134 ..... c 15 N72-11388 *
US-PATENT-CLASS-212-225 ..... c 18 N89-12621 *
US-PATENT-CLASS-212-230 ..... c 37 N86-20789 *
US-PATENT-CLASS-212-257 ..... c 18 N89-12621 *
US-PATENT-CLASS-212-267 ..... c 31 N81-27324 *
US-PATENT-CLASS-213-81 ..... c 37 N77-23483 *
US-PATENT-CLASS-214-1CM ..... c 37 N76-15460 *
US-PATENT-CLASS-214-1BC ..... c 54 N77-32721 *
US-PATENT-CLASS-214-1B ..... c 54 N75-27758 *
US-PATENT-CLASS-214-1CM ..... c 15 N72-28495 *
US-PATENT-CLASS-214-1CM ..... c 54 N75-12616 *
US-PATENT-CLASS-214-1CM ..... c 18 N75-27041 *
US-PATENT-CLASS-214-1CM ..... c 54 N75-27758 *
US-PATENT-CLASS-214-1CM ..... c 37 N77-23483 *
US-PATENT-CLASS-214-1CM ..... c 54 N77-32721 *
US-PATENT-CLASS-214-1CM ..... c 54 N78-17676 *
US-PATENT-CLASS-214-1R ..... c 37 N76-15457 *
US-PATENT-CLASS-214-16.1CB . c 37 N77-22480 *
US-PATENT-CLASS-214-1 ..... c 32 N70-41367 *
US-PATENT-CLASS-214-90R ..... c 03 N72-25021 *
US-PATENT-CLASS-215-247 ..... c 33 N76-19339 *
US-PATENT-CLASS-219-10.41 .... c 33 N82-26571 *
US-PATENT-CLASS-219-10.43 .... c 31 N85-29083 *
US-PATENT-CLASS-219-10.49R . c 33 N81-19389 *
US-PATENT-CLASS-219-10.49 .... c 11 N71-15925 *
US-PATENT-CLASS-219-10.49 .... c 31 N85-29083 *
US-PATENT-CLASS-219-10.53 .... c 33 N82-26571 *
US-PATENT-CLASS-219-10.53 .... c 31 N85-29083 *
US-PATENT-CLASS-219-10.67 .... c 33 N81-19389 *
US-PATENT-CLASS-219-10.77 .... c 31 N85-29083 *
US-PATENT-CLASS-219-101 ..... c 15 N73-14468 *
US-PATENT-CLASS-219-101 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-107 ..... c 15 N73-28515 *
US-PATENT-CLASS-219-107 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-109 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-117 ..... c 15 N73-32358 *
US-PATENT-CLASS-219-118 ..... c 37 N76-27568 *
US-PATENT-CLASS-219-118 ..... c 37 N77-11397 *
US-PATENT-CLASS-219-119 ..... c 15 N73-14468 *
US-PATENT-CLASS-219-121.28 .. c 35 N90-20351 *
US-PATENT-CLASS-219-121.47 .. c 75 N91-25875 *
US-PATENT-CLASS-219-121.48 .. c 75 N91-25875 *
US-PATENT-CLASS-219-121.52 .. c 75 N91-25875 *
US-PATENT-CLASS-219-121.54 .. c 37 N88-30131 *
US-PATENT-CLASS-219-121.56 .. c 37 N88-30131 *
US-PATENT-CLASS-219-121.57 .. c 37 N88-30131 *
US-PATENT-CLASS-219-121.68 .. c 31 N91-14508 *
US-PATENT-CLASS-219-121.72 .. c 37 N91-32508 *
US-PATENT-CLASS-219-121LE .. c 26 N86-32551 *
US-PATENT-CLASS-219-121LN .. c 44 N82-26777 *
US-PATENT-CLASS-219-121LY .. c 26 N86-32551 *
US-PATENT-CLASS-219-121P ..... c 15 N72-32487 *
US-PATENT-CLASS-219-121 ..... c 15 N69-21471 * #
US-PATENT-CLASS-219-121 ..... c 33 N70-34540 *
US-PATENT-CLASS-219-121 ..... c 15 N71-19486 *
US-PATENT-CLASS-219-121 ..... c 16 N71-20400 *
US-PATENT-CLASS-219-121 ..... c 15 N71-27135 *
US-PATENT-CLASS-219-124.02 .. c 37 N88-30131 *
US-PATENT-CLASS-219-124.2-2 c 37 N79-10421 *
US-PATENT-CLASS-219-124.32 .. c 37 N79-10421 *
US-PATENT-CLASS-219-124.34 .. c 37 N86-21850 *
US-PATENT-CLASS-219-124.34 .. c 74 N87-17493 *
US-PATENT-CLASS-219-124.34 .. c 74 N87-25843 *
US-PATENT-CLASS-219-124.34 .. c 37 N88-14362 *
US-PATENT-CLASS-219-125.1 .... c 37 N79-10421 *
US-PATENT-CLASS-219-125 ..... c 15 N71-23815 *
US-PATENT-CLASS-219-125 ..... c 37 N75-27376 *
US-PATENT-CLASS-219-130.01 .. c 74 N87-17493 *
US-PATENT-CLASS-219-130.01 .. c 74 N87-25843 *
US-PATENT-CLASS-219-130.01 .. c 37 N88-14362 *
US-PATENT-CLASS-219-130.4 .... c 37 N88-30131 *
US-PATENT-CLASS-219-130 ..... c 15 N71-23798 *
US-PATENT-CLASS-219-131 ..... c 15 N71-15871 *
US-PATENT-CLASS-219-136 ..... c 37 N88-14362 *
US-PATENT-CLASS-219-136 ..... c 31 N90-23586 *
US-PATENT-CLASS-219-136 ..... c 31 N90-26168 *
US-PATENT-CLASS-219-137.42 .. c 37 N88-23980 *
US-PATENT-CLASS-219-137 ..... c 15 N70-34814 *
US-PATENT-CLASS-219-137 ..... c 37 N75-19683 *
US-PATENT-CLASS-219-158 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-160 ..... c 37 N80-23655 *
US-PATENT-CLASS-219-161 ..... c 37 N80-23655 *
US-PATENT-CLASS-219-19 ..... c 33 N70-34812 *
US-PATENT-CLASS-219-201 ..... c 52 N80-16725 *
US-PATENT-CLASS-219-201 ..... c 37 N85-29286 *
US-PATENT-CLASS-219-203 ..... c 11 N73-12265 *
US-PATENT-CLASS-219-203 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-209 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-210 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-216 ..... c 35 N74-15831 *
US-PATENT-CLASS-219-219 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-221 ..... c 15 N72-11392 *
US-PATENT-CLASS-219-221 ..... c 37 N85-29286 *
US-PATENT-CLASS-219-229 ..... c 15 N71-27214 *
US-PATENT-CLASS-219-234 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-234 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-243 ..... c 15 N72-11392 *
US-PATENT-CLASS-219-273 ..... c 15 N72-32487 *
US-PATENT-CLASS-219-275 ..... c 15 N71-20395 *
US-PATENT-CLASS-219-275 ..... c 20 N87-16875 *
US-PATENT-CLASS-219-285 ..... c 37 N85-29286 *
US-PATENT-CLASS-219-299 ..... c 51 N79-10694 *
US-PATENT-CLASS-219-300 ..... c 37 N77-13418 *
US-PATENT-CLASS-219-302 ..... c 51 N79-10694 *
US-PATENT-CLASS-219-304 ..... c 37 N77-13418 *
US-PATENT-CLASS-219-343 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-347 ..... c 15 N69-27871 * #
US-PATENT-CLASS-219-347 ..... c 33 N70-34545 *
US-PATENT-CLASS-219-348 ..... c 15 N73-27405 *
US-PATENT-CLASS-219-34 ..... c 09 N70-33312 *
US-PATENT-CLASS-219-354 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-364 ..... c 33 N71-16278 *
US-PATENT-CLASS-219-378 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-383 ..... c 09 N88-28939 *
US-PATENT-CLASS-219-388 ..... c 35 N74-15831 *
US-PATENT-CLASS-219-390 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-390 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-390 ..... c 14 N91-27175 *
US-PATENT-CLASS-219-395 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-396 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-410 ..... c 12 N79-26075 *
US-PATENT-CLASS-219-411 ..... c 17 N69-25147 * #
US-PATENT-CLASS-219-411 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-413 ..... c 14 N71-28958 *
US-PATENT-CLASS-219-477 ..... c 33 N74-14935 *
US-PATENT-CLASS-219-497 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-499 ..... c 14 N73-26430 *
US-PATENT-CLASS-219-501 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-505 ..... c 14 N71-27058 *
US-PATENT-CLASS-219-505 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-50 ..... c 14 N73-26430 *
US-PATENT-CLASS-219-510 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-522 ..... c 11 N73-12265 *
US-PATENT-CLASS-219-522 ..... c 52 N80-16725 *
US-PATENT-CLASS-219-522 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-530 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-539 ..... c 33 N74-14935 *
US-PATENT-CLASS-219-541 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-543 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-545 ..... c 33 N82-26571 *
US-PATENT-CLASS-219-62 ..... c 15 N73-28515 *
US-PATENT-CLASS-219-69.11 .... c 27 N91-25296 *
US-PATENT-CLASS-219-69.12 .... c 37 N91-32508 *
US-PATENT-CLASS-219-69.17 .... c 35 N92-22038 *
US-PATENT-CLASS-219-72 ..... c 15 N71-14932 *
US-PATENT-CLASS-219-72 ..... c 37 N90-19602 *
US-PATENT-CLASS-219-72 ..... c 33 N92-33030 *
US-PATENT-CLASS-219-74 ..... c 74 N87-25843 *
US-PATENT-CLASS-219-74 ..... c 37 N90-19602 *
US-PATENT-CLASS-219-75 ..... c 37 N88-23980 *
US-PATENT-CLASS-219-75 ..... c 31 N90-23586 *
US-PATENT-CLASS-219-75 ..... c 31 N90-26168 *
US-PATENT-CLASS-219-75 ..... c 75 N91-25875 *
US-PATENT-CLASS-219-75 ..... c 33 N92-33030 *
US-PATENT-CLASS-219-76.14 .... c 24 N85-30027 *
US-PATENT-CLASS-219-76.16 .... c 75 N91-25875 *
US-PATENT-CLASS-219-78 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-85.15 .... c 26 N92-29094 *
US-PATENT-CLASS-219-85.19 .... c 26 N92-29094 *
US-PATENT-CLASS-219-85CA .... c 35 N80-20560 *
US-PATENT-CLASS-219-85CM ... c 35 N80-20560 *
US-PATENT-CLASS-219-85R ..... c 35 N80-20560 *
US-PATENT-CLASS-219-85 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-85 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-91 ..... c 15 N71-18613 *
US-PATENT-CLASS-219-91 ..... c 15 N73-32358 *
US-PATENT-CLASS-219-92 ..... c 37 N76-27568 *
US-PATENT-CLASS-219-92 ..... c 37 N77-11397 *
US-PATENT-CLASS-22-200 ..... c 15 N71-15966 *
US-PATENT-CLASS-22-203 ..... c 17 N70-38198 *
US-PATENT-CLASS-220-14 ..... c 15 N69-39935 * #
US-PATENT-CLASS-220-15 ..... c 31 N71-15664 *
US-PATENT-CLASS-220-15 ..... c 34 N75-12222 *
US-PATENT-CLASS-220-1 ..... c 31 N71-17680 *
US-PATENT-CLASS-220-2.2 ..... c 24 N79-25143 *
US-PATENT-CLASS-220-266 ..... c 37 N79-22474 *
US-PATENT-CLASS-220-306 ..... c 27 N84-27886 *
US-PATENT-CLASS-220-335 ..... c 45 N83-25217 *
US-PATENT-CLASS-220-378 ..... c 37 N82-24490 *
US-PATENT-CLASS-220-423 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-429 ..... c 44 N80-20808 *
US-PATENT-CLASS-220-445 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-46 ..... c 15 N71-27068 *
US-PATENT-CLASS-220-5A ..... c 31 N89-29578 *
US-PATENT-CLASS-220-5R ..... c 15 N72-22486 *
US-PATENT-CLASS-220-55 ..... c 15 N69-27502 * #
US-PATENT-CLASS-220-63 ..... c 11 N70-38182 *
US-PATENT-CLASS-220-67 ..... c 15 N71-10577 *
US-PATENT-CLASS-220-82R ..... c 31 N81-19343 *
US-PATENT-CLASS-220-89A ..... c 31 N81-19343 *
US-PATENT-CLASS-220-89 ..... c 11 N71-15960 *
US-PATENT-CLASS-220-89 ..... c 11 N71-17600 *
US-PATENT-CLASS-220-901 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-901 ..... c 31 N89-29578 *
US-PATENT-CLASS-220-908 ..... c 31 N92-33612 *
US-PATENT-CLASS-220-9 ..... c 23 N71-22881 *
US-PATENT-CLASS-220-9 ..... c 18 N71-23658 *
US-PATENT-CLASS-220-9 ..... c 15 N71-23816 *
US-PATENT-CLASS-220-9 ..... c 33 N71-25351 *
US-PATENT-CLASS-221-265 ..... c 51 N74-15778 *
US-PATENT-CLASS-222-131 ..... c 31 N79-21225 *
US-PATENT-CLASS-222-135 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-137 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-145 ..... c 37 N76-19436 *
US-PATENT-CLASS-222-187 ..... c 31 N90-23587 *
US-PATENT-CLASS-222-193 ..... c 37 N74-13178 *
US-PATENT-CLASS-222-309 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-309 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-309 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-324 ..... c 54 N74-17853 *
US-PATENT-CLASS-222-340 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-340 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-387 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-389 ..... c 15 N70-38996 *
US-PATENT-CLASS-222-414 ..... c 14 N73-27378 *
US-PATENT-CLASS-222-43 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-45 ..... c 14 N70-40233 *
US-PATENT-CLASS-222-48 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-49 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-514 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-61 ..... c 27 N71-29155 *
US-PATENT-CLASS-222-61 ..... c 37 N77-28487 *
US-PATENT-CLASS-222-71 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-95 ..... c 37 N77-28487 *
US-PATENT-CLASS-224-25A ..... c 05 N72-23085 *
US-PATENT-CLASS-224-25 ..... c 05 N71-12351 *
US-PATENT-CLASS-224-444 ..... c 54 N74-17853 *
US-PATENT-CLASS-225-103 ..... c 37 N82-32730 *
US-PATENT-CLASS-225-1 ..... c 15 N71-17628 *
US-PATENT-CLASS-225-2 ..... c 26 N71-14354 *
US-PATENT-CLASS-226-190 ..... c 08 N71-19420 *
US-PATENT-CLASS-226-58 ..... c 14 N71-28935 *
US-PATENT-CLASS-227-27 ..... c 37 N86-25790 *
US-PATENT-CLASS-227-28 ..... c 37 N86-25790 *
US-PATENT-CLASS-228-103 ..... c 35 N83-35338 *
US-PATENT-CLASS-228-107 ..... c 37 N79-13364 *
US-PATENT-CLASS-228-107 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-107 ..... c 31 N91-31476 *
US-PATENT-CLASS-228-107 ..... c 31 N92-16162 *
US-PATENT-CLASS-228-109 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-116 ..... c 37 N81-19455 *
US-PATENT-CLASS-228-118 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-118 ..... c 24 N81-26179 *
US-PATENT-CLASS-228-119 ..... c 37 N86-32736 * #
US-PATENT-CLASS-228-124 ..... c 26 N77-29260 *
US-PATENT-CLASS-228-124 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-13 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-15.1 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-157 ..... c 24 N82-24296 *
US-PATENT-CLASS-228-157 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-165 ..... c 35 N84-22930 *
US-PATENT-CLASS-228-170 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-173 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-174 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-181 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-190 ..... c 24 N75-28135 *

US-PATENT-CLASS-228-190 ..... c 26 N77-28265 *
US-PATENT-CLASS-228-190 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-190 ..... c 24 N81-26179 *
US-PATENT-CLASS-228-193 ..... c 24 N75-28135 *
US-PATENT-CLASS-228-193 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-193 ..... c 35 N83-35338 *
US-PATENT-CLASS-228-194 ..... c 26 N77-28265 *
US-PATENT-CLASS-228-1 ..... c 37 N75-25185 *
US-PATENT-CLASS-228-2.5 ..... c 37 N79-13364 *
US-PATENT-CLASS-228-2.5 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-2.5 ..... c 31 N91-31476 *
US-PATENT-CLASS-228-2.5 ..... c 31 N92-16162 *
US-PATENT-CLASS-228-205 ..... c 37 N81-19455 *
US-PATENT-CLASS-228-206 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-208 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-209 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-212 ..... c 37 N80-23655 *
US-PATENT-CLASS-228-212 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-214 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-222 ..... c 37 N80-23655 *
US-PATENT-CLASS-228-232 ..... c 26 N77-28265 *
US-PATENT-CLASS-228-238 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-263.18 .. c 35 N83-35338 *
US-PATENT-CLASS-228-263 ..... c 26 N77-29260 *
US-PATENT-CLASS-228-44.1R ... c 37 N80-23655 *
US-PATENT-CLASS-228-5.1 ..... c 44 N79-24431 *
US-PATENT-CLASS-228-50 ..... c 15 N70-39924 *
US-PATENT-CLASS-228-50 ..... c 15 N70-40204 *
US-PATENT-CLASS-228-53 ..... c 15 N71-27214 *
US-PATENT-CLASS-228-57 ..... c 15 N72-22491 *
US-PATENT-CLASS-228-6 ..... c 44 N79-24431 *
US-PATENT-CLASS-228-7 ..... c 15 N71-15607 *
US-PATENT-CLASS-228-8 ..... c 15 N71-23050 *
US-PATENT-CLASS-228-8 ..... c 37 N79-10421 *
US-PATENT-CLASS-228-9 ..... c 15 N71-20393 *
US-PATENT-CLASS-229-DIG.11 . c 32 N73-13921 *
US-PATENT-CLASS-23-109 ..... c 04 N72-33072 *
US-PATENT-CLASS-23-201 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-208 ..... c 15 N69-21922 * #
US-PATENT-CLASS-23-208 ..... c 26 N70-36805 *
US-PATENT-CLASS-23-209.1 ..... c 15 N72-20446 *
US-PATENT-CLASS-23-230B ..... c 25 N75-14844 *
US-PATENT-CLASS-23-230B ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230B ..... c 25 N79-14169 *
US-PATENT-CLASS-23-230B ..... c 51 N80-27067 *
US-PATENT-CLASS-23-230L ..... c 35 N74-32879 *
US-PATENT-CLASS-23-230M ..... c 25 N76-18245 *
US-PATENT-CLASS-23-230M ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230PC .... c 25 N78-15210 *
US-PATENT-CLASS-23-230PC .... c 25 N82-12166 *
US-PATENT-CLASS-23-230R ..... c 06 N72-17094 *
US-PATENT-CLASS-23-230R ..... c 17 N73-12547 *
US-PATENT-CLASS-23-230R ..... c 17 N73-27446 *
US-PATENT-CLASS-23-230R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-230R ..... c 45 N76-31714 *
US-PATENT-CLASS-23-230R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230 ..... c 06 N71-23527 *
US-PATENT-CLASS-23-230 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-231 ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232C ..... c 06 N72-17094 *
US-PATENT-CLASS-23-232C ..... c 25 N76-18245 *
US-PATENT-CLASS-23-232C ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232E ..... c 06 N73-16106 *
US-PATENT-CLASS-23-232E ..... c 45 N76-31714 *
US-PATENT-CLASS-23-232E ..... c 25 N78-15210 *
US-PATENT-CLASS-23-232E ..... c 25 N82-12166 *
US-PATENT-CLASS-23-232R ..... c 06 N73-16106 *
US-PATENT-CLASS-23-232R ..... c 45 N76-31714 *
US-PATENT-CLASS-23-232R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232R ..... c 25 N78-15210 *
US-PATENT-CLASS-23-252R ..... c 25 N74-12813 *
US-PATENT-CLASS-23-252R ..... c 25 N79-10162 *
US-PATENT-CLASS-23-252R ..... c 25 N79-28253 *
US-PATENT-CLASS-23-253A ..... c 51 N77-27677 *
US-PATENT-CLASS-23-253A ..... c 54 N78-14784 *
US-PATENT-CLASS-23-253PC .... c 06 N72-17094 *
US-PATENT-CLASS-23-253PC .... c 37 N74-18123 *
US-PATENT-CLASS-23-253R ..... c 15 N72-21465 *
US-PATENT-CLASS-23-253R ..... c 25 N75-14844 *
US-PATENT-CLASS-23-253R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-253 ..... c 23 N71-16355 *
US-PATENT-CLASS-23-253 ..... c 06 N71-26754 *
US-PATENT-CLASS-23-253 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-254EF .... c 35 N76-18403 *
US-PATENT-CLASS-23-254E ..... c 06 N73-16106 *
US-PATENT-CLASS-23-254E ..... c 33 N75-26245 *
US-PATENT-CLASS-23-254E ..... c 35 N75-29380 *
US-PATENT-CLASS-23-254E ..... c 45 N76-21742 *
US-PATENT-CLASS-23-254R ..... c 06 N73-16106 *
US-PATENT-CLASS-23-254R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-254R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-254 ..... c 14 N71-20442 *
US-PATENT-CLASS-23-255E ..... c 35 N75-29380 *
US-PATENT-CLASS-23-255R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-259 ..... c 15 N71-27372 *
US-PATENT-CLASS-23-259 ..... c 15 N72-21465 *
US-PATENT-CLASS-23-259 ..... c 37 N74-18123 *
US-PATENT-CLASS-23-259 ..... c 51 N77-27677 *
US-PATENT-CLASS-23-277C ..... c 25 N74-33378 *
US-PATENT-CLASS-23-277R ..... c 44 N77-22607 *
US-PATENT-CLASS-23-277 ..... c 26 N70-40015 *
US-PATENT-CLASS-23-281 ..... c 28 N72-18766 *
US-PATENT-CLASS-23-281 ..... c 25 N74-12813 *
US-PATENT-CLASS-23-281 ..... c 44 N76-18642 *
US-PATENT-CLASS-23-281 ..... c 44 N76-29700 *
US-PATENT-CLASS-23-281 ..... c 44 N77-10636 *
US-PATENT-CLASS-23-281 ..... c 44 N77-22607 *
US-PATENT-CLASS-23-284 ..... c 35 N74-15127 *
US-PATENT-CLASS-23-288F ..... c 25 N74-12813 *
US-PATENT-CLASS-23-288J ..... c 25 N74-12813 *
US-PATENT-CLASS-23-288R ..... c 28 N80-10374 *
US-PATENT-CLASS-23-288 ..... c 28 N72-18766 *
US-PATENT-CLASS-23-292 ..... c 51 N77-27677 *
US-PATENT-CLASS-23-293R ..... c 28 N81-15119 *
US-PATENT-CLASS-23-295R ..... c 76 N85-29800 *
US-PATENT-CLASS-23-295R ..... c 76 N93-14707 *
US-PATENT-CLASS-23-300 ..... c 28 N80-23471 *
US-PATENT-CLASS-23-300 ..... c 76 N93-14707 *
US-PATENT-CLASS-23-302A ..... c 28 N80-23471 *
US-PATENT-CLASS-23-302R ..... c 28 N80-23471 *
US-PATENT-CLASS-23-302T ..... c 28 N80-23471 *
US-PATENT-CLASS-23-313R ..... c 71 N85-22104 *
US-PATENT-CLASS-23-55 ..... c 06 N72-17093 *
US-PATENT-CLASS-23-88 ..... c 06 N72-17093 *
US-PATENT-CLASS-23-927 ..... c 51 N80-16714 *
US-PATENT-CLASS-23-97 ..... c 06 N72-17093 *
US-PATENT-CLASS-230-162 ..... c 33 N71-17610 *
US-PATENT-CLASS-230-221 ..... c 11 N72-22245 *
US-PATENT-CLASS-230-54 ..... c 11 N72-22245 *
US-PATENT-CLASS-233-DIG.1 .... c 34 N75-26282 *
US-PATENT-CLASS-233-11 ..... c 15 N71-16079 *
US-PATENT-CLASS-233-20RP .... c 34 N75-26282 *
US-PATENT-CLASS-233-25 ..... c 34 N75-26282 *
US-PATENT-CLASS-233-46 ..... c 34 N75-26282 *
US-PATENT-CLASS-233-6 ..... c 34 N75-26282 *
US-PATENT-CLASS-235.150.27 .. c 04 N74-13420 *
US-PATENT-CLASS-235-10.2 ..... c 08 N73-25206 *
US-PATENT-CLASS-235-150.1 .... c 08 N71-29033 *
US-PATENT-CLASS-235-150.1 .... c 08 N72-31226 *
US-PATENT-CLASS-235-150.1 .... c 32 N77-10392 *
US-PATENT-CLASS-235-150.22 .. c 02 N71-13421 *
US-PATENT-CLASS-235-150.22 .. c 04 N74-13420 *
US-PATENT-CLASS-235-150.25 .. c 21 N71-21688 *
US-PATENT-CLASS-235-150.25 .. c 35 N77-20399 *
US-PATENT-CLASS-235-150.26 .. c 04 N74-13420 *
US-PATENT-CLASS-235-150.27 .. c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 .... c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 .... c 35 N77-20399 *
US-PATENT-CLASS-235-150.3 .... c 33 N74-10223 *
US-PATENT-CLASS-235-150.52 .. c 08 N72-22165 *
US-PATENT-CLASS-235-150.53 .. c 08 N72-22165 *
US-PATENT-CLASS-235-150.53 .. c 07 N73-13149 *
US-PATENT-CLASS-235-150.53 .. c 33 N75-26243 *
US-PATENT-CLASS-235-151.13 .. c 25 N76-18245 *
US-PATENT-CLASS-235-151.1 .... c 08 N71-29033 *
US-PATENT-CLASS-235-151.1 .... c 08 N72-31226 *
US-PATENT-CLASS-235-151.27 .. c 08 N73-25206 *
US-PATENT-CLASS-235-151.31 .. c 10 N73-25240 *
US-PATENT-CLASS-235-151.34 .. c 35 N76-14431 *
US-PATENT-CLASS-235-151.3 .... c 52 N74-22771 *
US-PATENT-CLASS-235-151.3 .... c 38 N78-17395 *
US-PATENT-CLASS-235-151.3 .... c 38 N78-17396 *
US-PATENT-CLASS-235-151 ..... c 37 N74-21056 *
US-PATENT-CLASS-235-152IE ... c 08 N73-32081 *
US-PATENT-CLASS-235-152 ..... c 07 N71-24741 *
US-PATENT-CLASS-235-152 ..... c 08 N72-20176 *
US-PATENT-CLASS-235-152 ..... c 08 N72-22167 *
US-PATENT-CLASS-235-152 ..... c 08 N72-25210 *
US-PATENT-CLASS-235-152 ..... c 08 N73-12175 *
US-PATENT-CLASS-235-152 ..... c 09 N73-13209 *
US-PATENT-CLASS-235-152 ..... c 08 N73-26175 *
US-PATENT-CLASS-235-152 ..... c 60 N77-14751 *
US-PATENT-CLASS-235-153AE .. c 60 N76-21914 *
US-PATENT-CLASS-235-153AK .. c 62 N74-14920 *
US-PATENT-CLASS-235-153 ..... c 08 N71-24633 *
US-PATENT-CLASS-235-153 ..... c 08 N72-22166 *
US-PATENT-CLASS-235-154 ..... c 08 N70-34778 *
US-PATENT-CLASS-235-154 ..... c 10 N71-23662 *
US-PATENT-CLASS-235-154 ..... c 08 N72-18184 *
US-PATENT-CLASS-235-154 ..... c 08 N72-25206 *
US-PATENT-CLASS-235-155 ..... c 08 N71-24890 *
US-PATENT-CLASS-235-155 ..... c 08 N72-21197 *
US-PATENT-CLASS-235-155 ..... c 08 N73-12176 *
US-PATENT-CLASS-235-156 ..... c 08 N71-18693 *
US-PATENT-CLASS-235-156 ..... c 60 N75-13539 *
US-PATENT-CLASS-235-156 ..... c 32 N76-21366 *
US-PATENT-CLASS-235-156 ..... c 32 N77-10392 *
US-PATENT-CLASS-235-156 ..... c 38 N78-17395 *
US-PATENT-CLASS-235-156 ..... c 38 N78-17396 *
US-PATENT-CLASS-235-158 ..... c 08 N71-19437 *
US-PATENT-CLASS-235-164 ..... c 08 N71-33110 *
US-PATENT-CLASS-235-164 ..... c 08 N73-26175 *
US-PATENT-CLASS-235-164 ..... c 60 N74-20836 *
US-PATENT-CLASS-235-175 ..... c 08 N71-18602 *
US-PATENT-CLASS-235-175 ..... c 08 N71-33110 *
US-PATENT-CLASS-235-176 ..... c 08 N70-34787 *
US-PATENT-CLASS-235-181 ..... c 07 N71-21476 *
US-PATENT-CLASS-235-181 ..... c 07 N73-13149 *
US-PATENT-CLASS-235-181 ..... c 35 N75-21582 *
US-PATENT-CLASS-235-181 ..... c 33 N75-26243 *
US-PATENT-CLASS-235-181 ..... c 43 N77-10584 *
US-PATENT-CLASS-235-181 ..... c 38 N78-17395 *
US-PATENT-CLASS-235-183 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-184 ..... c 74 N76-18913 *
US-PATENT-CLASS-235-186 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-194 ..... c 09 N71-19480 *
US-PATENT-CLASS-235-194 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-194 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-197 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-197 ..... c 09 N72-23173 *
US-PATENT-CLASS-235-197 ..... c 10 N73-20253 *
US-PATENT-CLASS-235-197 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-197 ..... c 60 N75-13539 *
US-PATENT-CLASS-235-201 ..... c 10 N71-25899 *
US-PATENT-CLASS-235-61.6 ..... c 01 N71-13411 *
US-PATENT-CLASS-235-61.6 ..... c 15 N71-21179 *
US-PATENT-CLASS-235-61NV .... c 08 N72-11172 *
US-PATENT-CLASS-235-61NV .... c 35 N76-29552 *
US-PATENT-CLASS-235-70 ..... c 04 N78-17031 *
US-PATENT-CLASS-235-78M ..... c 35 N76-29552 *
US-PATENT-CLASS-235-88M ..... c 35 N76-29552 *
US-PATENT-CLASS-235-92CA .... c 33 N74-10223 *
US-PATENT-CLASS-235-92CA .... c 38 N77-17495 *
US-PATENT-CLASS-235-92CC .... c 08 N72-20176 *
US-PATENT-CLASS-235-92CT .... c 38 N77-17495 *
US-PATENT-CLASS-235-92CV .... c 08 N73-25206 *
US-PATENT-CLASS-235-92DE .... c 08 N72-20176 *
US-PATENT-CLASS-235-92DM ... c 08 N72-20176 *
US-PATENT-CLASS-235-92DM ... c 33 N74-10223 *
US-PATENT-CLASS-235-92DM ... c 33 N75-19519 *
US-PATENT-CLASS-235-92DN .... c 08 N73-25206 *
US-PATENT-CLASS-235-92DN .... c 38 N77-17495 *
US-PATENT-CLASS-235-92EA .... c 08 N73-25206 *
US-PATENT-CLASS-235-92EV .... c 08 N73-25206 *
US-PATENT-CLASS-235-92FQ .... c 08 N73-20217 *
US-PATENT-CLASS-235-92LG .... c 08 N72-20176 *
US-PATENT-CLASS-235-92LG .... c 33 N75-19519 *
US-PATENT-CLASS-235-92MT .... c 08 N72-31226 *
US-PATENT-CLASS-235-92MT .... c 32 N73-26910 *
US-PATENT-CLASS-235-92PC .... c 35 N82-11431 *
US-PATENT-CLASS-235-92PE .... c 37 N74-21056 *
US-PATENT-CLASS-235-92R ..... c 08 N72-20176 *
US-PATENT-CLASS-235-92R ..... c 08 N73-20217 *
US-PATENT-CLASS-235-92R ..... c 08 N73-25206 *
US-PATENT-CLASS-235-92R ..... c 33 N75-19519 *
US-PATENT-CLASS-235-92R ..... c 38 N77-17495 *
US-PATENT-CLASS-235-92SB .... c 37 N74-21056 *
US-PATENT-CLASS-235-92SH .... c 33 N76-14373 *
US-PATENT-CLASS-235-92T ..... c 03 N72-25020 *
US-PATENT-CLASS-235-92T ..... c 08 N73-20217 *
US-PATENT-CLASS-235-92T ..... c 33 N75-19519 *
US-PATENT-CLASS-235-92VA .... c 33 N75-19519 *
US-PATENT-CLASS-235-92 ..... c 08 N71-22897 *
US-PATENT-CLASS-235-92 ..... c 08 N71-24891 *
US-PATENT-CLASS-235-92 ..... c 10 N71-27137 *
US-PATENT-CLASS-235-92 ..... c 14 N71-27215 *
US-PATENT-CLASS-236-1F ..... c 35 N81-26431 *
US-PATENT-CLASS-236-13 ..... c 31 N80-32583 *
US-PATENT-CLASS-236-15-E .... c 25 N88-29002 *
US-PATENT-CLASS-236-1 ..... c 33 N71-16357 *
US-PATENT-CLASS-236-44A ..... c 35 N91-21496 *
US-PATENT-CLASS-236-44C ..... c 31 N80-32583 *
US-PATENT-CLASS-236-49 ..... c 31 N74-27902 *
US-PATENT-CLASS-236-49 ..... c 31 N80-32583 *
US-PATENT-CLASS-236-68 ..... c 15 N72-12409 *
US-PATENT-CLASS-236-94 ..... c 35 N91-21496 *
US-PATENT-CLASS-237-1A ..... c 44 N76-14602 *
US-PATENT-CLASS-237-1A ..... c 44 N78-10554 *
US-PATENT-CLASS-237-1A ..... c 44 N78-15560 *
US-PATENT-CLASS-237-1A ..... c 44 N78-17460 *
US-PATENT-CLASS-237-1A ..... c 44 N78-31525 *
US-PATENT-CLASS-237-1A ..... c 44 N79-24433 *
US-PATENT-CLASS-237-60 ..... c 34 N76-17317 *
US-PATENT-CLASS-238-134 ..... c 85 N74-34672 *
US-PATENT-CLASS-238-1 ..... c 05 N71-28619 *
US-PATENT-CLASS-239-DIG.23 . c 37 N85-29283 *
US-PATENT-CLASS-239-102 ..... c 37 N80-10494 *
US-PATENT-CLASS-239-127.1 .... c 28 N71-23968 *
US-PATENT-CLASS-239-127.1 .... c 28 N73-32606 *
US-PATENT-CLASS-239-127.1 .... c 34 N79-13288 *
US-PATENT-CLASS-239-127.1 .... c 34 N79-13289 *
US-PATENT-CLASS-239-127.1 .... c 34 N80-24573 *
US-PATENT-CLASS-239-127.1 .... c 44 N81-24519 *
US-PATENT-CLASS-239-127.1 .... c 37 N92-16318 *
US-PATENT-CLASS-239-127.3 .... c 20 N76-14191 *
US-PATENT-CLASS-239-127.3 .... c 07 N80-32392 *
US-PATENT-CLASS-239-127.3 .... c 37 N92-16318 *
US-PATENT-CLASS-239-132.5 .... c 20 N87-14420 *

US-PATENT-CLASS-239-14.1 ..... c 09 N89-25242 *
US-PATENT-CLASS-239-145 ..... c 31 N90-23587 *
US-PATENT-CLASS-239-171 ..... c 37 N87-13418 *
US-PATENT-CLASS-239-2.1 ..... c 09 N89-25242 *
US-PATENT-CLASS-239-265.11 .. c 18 N71-21068 *
US-PATENT-CLASS-239-265.11 .. c 07 N74-33218 *
US-PATENT-CLASS-239-265.11 .. c 07 N76-18117 *
US-PATENT-CLASS-239-265.11 .. c 37 N90-23751 *
US-PATENT-CLASS-239-265.11 .. c 37 N91-27560 *
US-PATENT-CLASS-239-265.11 .. c 37 N92-22043 *
US-PATENT-CLASS-239-265.15 .. c 37 N79-22474 *
US-PATENT-CLASS-239-265.17 .. c 07 N74-27490 *
US-PATENT-CLASS-239-265.17 .. c 07 N83-33884 *
US-PATENT-CLASS-239-265.17 .. c 71 N84-14873 *
US-PATENT-CLASS-239-265.17 .. c 20 N89-25279 *
US-PATENT-CLASS-239-265.19 .. c 28 N71-21493 *
US-PATENT-CLASS-239-265.19 .. c 28 N72-11708 *
US-PATENT-CLASS-239-265.25 .. c 07 N78-27121 *
US-PATENT-CLASS-239-265.25 .. c 09 N78-31129 *
US-PATENT-CLASS-239-265.33 .. c 07 N78-27121 *
US-PATENT-CLASS-239-265.33 .. c 07 N80-32392 *
US-PATENT-CLASS-239-265.39 .. c 07 N79-14097 *
US-PATENT-CLASS-239-265.43 .. c 28 N71-16224 *
US-PATENT-CLASS-239-265.43 .. c 28 N72-11708 *
US-PATENT-CLASS-239-288 ..... c 37 N79-22474 *
US-PATENT-CLASS-239-288 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-302 ..... c 37 N80-10494 *
US-PATENT-CLASS-239-322 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-327 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-375 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-402.5 .... c 07 N85-35195 *
US-PATENT-CLASS-239-403 ..... c 20 N87-14420 *
US-PATENT-CLASS-239-416 ..... c 15 N69-23185 * #
US-PATENT-CLASS-239-416 ..... c 15 N71-17654 *
US-PATENT-CLASS-239-418 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-424 ..... c 15 N72-25455 *
US-PATENT-CLASS-239-425 ..... c 20 N87-14420 *
US-PATENT-CLASS-239-426 ..... c 34 N84-12406 *
US-PATENT-CLASS-239-426 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-433 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-433 ..... c 37 N87-24689 *
US-PATENT-CLASS-239-434 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-499 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-533.13 .. c 34 N92-21724 *
US-PATENT-CLASS-239-543 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-543 ..... c 31 N90-20254 *
US-PATENT-CLASS-239-543 ..... c 34 N92-21724 *
US-PATENT-CLASS-239-545 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-546 ..... c 34 N92-21724 *
US-PATENT-CLASS-239-552 ..... c 34 N92-21724 *
US-PATENT-CLASS-239-562 ..... c 43 N81-26509 *
US-PATENT-CLASS-239-568 ..... c 37 N84-16561 *
US-PATENT-CLASS-239-589 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-590 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-591 ..... c 43 N81-26509 *
US-PATENT-CLASS-239-596 ..... c 37 N87-24689 *
US-PATENT-CLASS-239-597 ..... c 31 N91-15424 *
US-PATENT-CLASS-239-600 ..... c 37 N87-24689 *
US-PATENT-CLASS-239-601 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-601 ..... c 31 N91-15424 *
US-PATENT-CLASS-239-602 ..... c 34 N92-21724 *
US-PATENT-CLASS-239-690 ..... c 28 N82-18401 *
US-PATENT-CLASS-24-126 ..... c 15 N71-22994 *
US-PATENT-CLASS-24-134R ..... c 15 N73-25512 *
US-PATENT-CLASS-24-205.17 .... c 15 N71-25975 *
US-PATENT-CLASS-24-211N ..... c 15 N72-11385 *
US-PATENT-CLASS-24-211 ..... c 15 N71-17653 *
US-PATENT-CLASS-24-214 ..... c 31 N83-31895 *
US-PATENT-CLASS-24-263 ..... c 15 N71-21076 *
US-PATENT-CLASS-24-263 ..... c 15 N71-26162 *
US-PATENT-CLASS-24-304 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-447 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-450 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-560 ..... c 52 N84-28388 *
US-PATENT-CLASS-24-635 ..... c 37 N90-17154 *
US-PATENT-CLASS-24-68B ..... c 54 N89-29953 *
US-PATENT-CLASS-24-693 ..... c 27 N85-20125 *
US-PATENT-CLASS-240-1.2 ..... c 11 N70-33329 *
US-PATENT-CLASS-240-11.2 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-11.4 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-41.35R . c 74 N77-21941 *
US-PATENT-CLASS-240-41B ..... c 36 N75-27364 *
US-PATENT-CLASS-240-41R ..... c 74 N77-21941 *
US-PATENT-CLASS-240-46.13 .... c 74 N77-21941 *
US-PATENT-CLASS-240-47 ..... c 34 N74-23066 *
US-PATENT-CLASS-240-51.11 .... c 09 N71-26787 *
US-PATENT-CLASS-241-95 ..... c 37 N84-16561 *
US-PATENT-CLASS-242-107 ..... c 33 N86-20669 *
US-PATENT-CLASS-242-128 ..... c 15 N82-24272 *
US-PATENT-CLASS-242-187 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-192 ..... c 14 N71-23698 *
US-PATENT-CLASS-242-193 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-204 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-210 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-54-R ..... c 33 N86-20669 *
US-PATENT-CLASS-242-54 ..... c 15 N72-18477 *
US-PATENT-CLASS-242-55.19 .... c 14 N70-41647 *
US-PATENT-CLASS-242-55.19 .... c 07 N71-10609 *
US-PATENT-CLASS-242-57 ..... c 37 N77-14479 *
US-PATENT-CLASS-244.12.2 ..... c 05 N82-26277 *
US-PATENT-CLASS-244-ISS ..... c 03 N72-20031 *
US-PATENT-CLASS-244-1.55 ..... c 03 N73-20040 *
US-PATENT-CLASS-244-1-R ..... c 06 N87-22678 *
US-PATENT-CLASS-244-1A ..... c 33 N77-10429 *
US-PATENT-CLASS-244-1R ..... c 34 N79-31523 *
US-PATENT-CLASS-244-1R ..... c 35 N90-22769 *
US-PATENT-CLASS-244-1SA ..... c 21 N72-21624 *
US-PATENT-CLASS-244-1SA ..... c 21 N72-25595 *
US-PATENT-CLASS-244-1SA ..... c 03 N73-20039 *
US-PATENT-CLASS-244-1SA ..... c 15 N73-25513 *
US-PATENT-CLASS-244-1SA ..... c 21 N73-30640 *
US-PATENT-CLASS-244-1SA ..... c 19 N74-15089 *
US-PATENT-CLASS-244-1SA ..... c 35 N74-28097 *
US-PATENT-CLASS-244-1SB ..... c 15 N73-12486 *
US-PATENT-CLASS-244-1SC ..... c 31 N73-32750 *
US-PATENT-CLASS-244-1SC ..... c 34 N75-12222 *
US-PATENT-CLASS-244-1SD ..... c 31 N73-26876 *
US-PATENT-CLASS-244-1SD ..... c 37 N74-27903 *
US-PATENT-CLASS-244-1SD ..... c 15 N77-10112 *
US-PATENT-CLASS-244-1SS ..... c 11 N73-13257 *
US-PATENT-CLASS-244-1SS ..... c 03 N73-20039 *
US-PATENT-CLASS-244-1SS ..... c 14 N73-27378 *
US-PATENT-CLASS-244-1SS ..... c 31 N73-30829 *
US-PATENT-CLASS-244-1SS ..... c 31 N73-32750 *
US-PATENT-CLASS-244-1SS ..... c 33 N73-32818 *
US-PATENT-CLASS-244-1SS ..... c 18 N74-22136 *
US-PATENT-CLASS-244-1SS ..... c 18 N74-27397 *
US-PATENT-CLASS-244-1SS ..... c 73 N75-30876 *
US-PATENT-CLASS-244-100 ..... c 15 N70-34850 *
US-PATENT-CLASS-244-100 ..... c 31 N70-36654 *
US-PATENT-CLASS-244-100 ..... c 31 N70-36845 *
US-PATENT-CLASS-244-100 ..... c 02 N70-41589 *
US-PATENT-CLASS-244-103R .... c 37 N81-24443 *
US-PATENT-CLASS-244-103 ..... c 02 N70-36825 *
US-PATENT-CLASS-244-110B .... c 07 N82-26293 *
US-PATENT-CLASS-244-110C .... c 37 N82-18601 *
US-PATENT-CLASS-244-113 ..... c 02 N70-37939 *
US-PATENT-CLASS-244-113 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-113 ..... c 02 N77-10001 *
US-PATENT-CLASS-244-113 ..... c 37 N82-16408 *
US-PATENT-CLASS-244-113 ..... c 08 N85-35200 *
US-PATENT-CLASS-244-113 ..... c 02 N91-27139 *
US-PATENT-CLASS-244-114R .... c 04 N82-16059 *
US-PATENT-CLASS-244-114 ..... c 21 N72-22619 *
US-PATENT-CLASS-244-115 ..... c 18 N83-29303 *
US-PATENT-CLASS-244-117-A ... c 24 N88-18628 *
US-PATENT-CLASS-244-117A .... c 33 N73-25952 *
US-PATENT-CLASS-244-117A .... c 34 N76-17317 *
US-PATENT-CLASS-244-117A .... c 37 N76-19437 *
US-PATENT-CLASS-244-117A .... c 34 N77-18382 *
US-PATENT-CLASS-244-117A .... c 05 N81-26114 *
US-PATENT-CLASS-244-117A .... c 27 N84-27886 *
US-PATENT-CLASS-244-117 ..... c 31 N70-33242 *
US-PATENT-CLASS-244-117 ..... c 33 N72-17947 *
US-PATENT-CLASS-244-118.1 .... c 08 N82-32373 *
US-PATENT-CLASS-244-118.1 .... c 18 N85-29991 *
US-PATENT-CLASS-244-118.1 .... c 37 N85-34401 *
US-PATENT-CLASS-244-118.1 .... c 05 N87-14314 *
US-PATENT-CLASS-244-118.1 .... c 05 N91-27156 *
US-PATENT-CLASS-244-118.5 .... c 54 N93-14713 *
US-PATENT-CLASS-244-119 ..... c 02 N81-14968 *
US-PATENT-CLASS-244-119 ..... c 24 N82-24296 *
US-PATENT-CLASS-244-119 ..... c 24 N82-26384 *
US-PATENT-CLASS-244-119 ..... c 24 N84-11214 *
US-PATENT-CLASS-244-119 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-12.3 ..... c 05 N88-28914 *
US-PATENT-CLASS-244-12.4 ..... c 05 N88-28914 *
US-PATENT-CLASS-244-12.5 ..... c 08 N81-19130 *
US-PATENT-CLASS-244-120 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-120 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-121 ..... c 27 N79-12221 *
US-PATENT-CLASS-244-121 ..... c 24 N79-25142 *
US-PATENT-CLASS-244-121 ..... c 15 N79-26100 *
US-PATENT-CLASS-244-121 ..... c 27 N82-24339 *
US-PATENT-CLASS-244-121 ..... c 27 N82-29456 *
US-PATENT-CLASS-244-121 ..... c 37 N87-17036 *
US-PATENT-CLASS-244-121 ..... c 16 N92-16007 *
US-PATENT-CLASS-244-122AD .. c 03 N91-15142 *
US-PATENT-CLASS-244-122 ..... c 05 N71-20718 *
US-PATENT-CLASS-244-123 ..... c 24 N77-28225 *
US-PATENT-CLASS-244-123 ..... c 24 N82-24296 *
US-PATENT-CLASS-244-123 ..... c 24 N82-26384 *
US-PATENT-CLASS-244-123 ..... c 24 N84-11214 *
US-PATENT-CLASS-244-127 ..... c 34 N74-23039 *
US-PATENT-CLASS-244-129.4 .... c 16 N92-16007 *
US-PATENT-CLASS-244-129.5 .... c 18 N90-19278 *
US-PATENT-CLASS-244-12 ..... c 02 N70-33332 *
US-PATENT-CLASS-244-130 ..... c 02 N77-10001 *
US-PATENT-CLASS-244-130 ..... c 02 N81-14968 *
US-PATENT-CLASS-244-130 ..... c 37 N81-24443 *
US-PATENT-CLASS-244-130 ..... c 02 N87-16793 *
US-PATENT-CLASS-244-130 ..... c 07 N87-16828 *
US-PATENT-CLASS-244-130 ..... c 02 N88-14071 *
US-PATENT-CLASS-244-130 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-130 ..... c 05 N90-20078 *
US-PATENT-CLASS-244-130 ..... c 05 N90-20079 *
US-PATENT-CLASS-244-130 ..... c 34 N91-14562 *
US-PATENT-CLASS-244-130 ..... c 05 N91-27156 *
US-PATENT-CLASS-244-132 ..... c 24 N82-26384 *
US-PATENT-CLASS-244-132 ..... c 24 N82-32417 *
US-PATENT-CLASS-244-133 ..... c 31 N90-19427 *
US-PATENT-CLASS-244-134-D ... c 33 N86-20671 *
US-PATENT-CLASS-244-134-D ... c 33 N87-28833 *
US-PATENT-CLASS-244-134-F ... c 35 N88-29149 *
US-PATENT-CLASS-244-135R .... c 34 N76-17317 *
US-PATENT-CLASS-244-135R .... c 20 N80-10278 *
US-PATENT-CLASS-244-135 ..... c 31 N70-42015 *
US-PATENT-CLASS-244-135 ..... c 15 N73-12486 *
US-PATENT-CLASS-244-135 ..... c 14 N73-27378 *
US-PATENT-CLASS-244-137.2 .... c 18 N91-14374 *
US-PATENT-CLASS-244-137.2 .... c 03 N91-15142 *
US-PATENT-CLASS-244-137.2 .... c 03 N91-31113 *
US-PATENT-CLASS-244-137.4 .... c 05 N90-20079 *
US-PATENT-CLASS-244-137.4 .... c 05 N91-27156 *
US-PATENT-CLASS-244-137-A ... c 05 N87-14314 *
US-PATENT-CLASS-244-137P .... c 31 N73-26876 *
US-PATENT-CLASS-244-137P .... c 37 N76-22540 *
US-PATENT-CLASS-244-137P .... c 01 N83-35992 *
US-PATENT-CLASS-244-137R .... c 08 N82-32373 *
US-PATENT-CLASS-244-138A .... c 35 N90-22769 *
US-PATENT-CLASS-244-138 ..... c 01 N69-39981 * #
US-PATENT-CLASS-244-138 ..... c 02 N70-41630 *
US-PATENT-CLASS-244-138 ..... c 31 N71-16085 *
US-PATENT-CLASS-244-138 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-138 ..... c 31 N71-28851 *
US-PATENT-CLASS-244-139 ..... c 31 N73-13898 *
US-PATENT-CLASS-244-139 ..... c 02 N76-16014 *
US-PATENT-CLASS-244-139 ..... c 05 N85-21147 *
US-PATENT-CLASS-244-139 ..... c 08 N85-35200 *
US-PATENT-CLASS-244-139 ..... c 02 N91-27139 *
US-PATENT-CLASS-244-13 ..... c 01 N71-23497 *
US-PATENT-CLASS-244-13 ..... c 02 N73-26005 *
US-PATENT-CLASS-244-13 ..... c 05 N75-25914 *
US-PATENT-CLASS-244-13 ..... c 05 N84-12154 *
US-PATENT-CLASS-244-140 ..... c 02 N70-38009 *
US-PATENT-CLASS-244-145 ..... c 02 N74-10034 *
US-PATENT-CLASS-244-147 ..... c 05 N85-21147 *
US-PATENT-CLASS-244-14 ..... c 14 N70-33322 *
US-PATENT-CLASS-244-14 ..... c 18 N91-21222 *
US-PATENT-CLASS-244-15.5 ..... c 31 N72-18859 *
US-PATENT-CLASS-244-150 ..... c 15 N71-24600 *
US-PATENT-CLASS-244-151R .... c 33 N74-22865 *
US-PATENT-CLASS-244-152 ..... c 02 N70-36804 *
US-PATENT-CLASS-244-155 ..... c 30 N73-12884 *
US-PATENT-CLASS-244-155 ..... c 31 N73-14854 *
US-PATENT-CLASS-244-158.R ... c 20 N86-26368 *
US-PATENT-CLASS-244-158-A ... c 37 N85-30335 *
US-PATENT-CLASS-244-158-A ... c 05 N86-19310 *
US-PATENT-CLASS-244-158-A ... c 24 N88-18628 *
US-PATENT-CLASS-244-158-R ... c 05 N86-19310 *
US-PATENT-CLASS-244-158-R ... c 18 N86-20469 *
US-PATENT-CLASS-244-158A .... c 27 N82-24339 *
US-PATENT-CLASS-244-158A .... c 27 N82-29456 *
US-PATENT-CLASS-244-158A .... c 24 N82-32417 *
US-PATENT-CLASS-244-158A .... c 24 N83-13172 *
US-PATENT-CLASS-244-158A .... c 16 N84-22601 *
US-PATENT-CLASS-244-158A .... c 27 N84-27886 *
US-PATENT-CLASS-244-158A .... c 24 N90-23480 *
US-PATENT-CLASS-244-158R .... c 31 N81-25258 *
US-PATENT-CLASS-244-158R .... c 16 N84-27784 *
US-PATENT-CLASS-244-158R .... c 18 N85-29991 *
US-PATENT-CLASS-244-158R .... c 37 N85-34401 *
US-PATENT-CLASS-244-158R .... c 37 N87-17036 *
US-PATENT-CLASS-244-158R .... c 18 N90-19278 *
US-PATENT-CLASS-244-158R .... c 16 N90-22584 *
US-PATENT-CLASS-244-158R .... c 18 N91-21222 *
US-PATENT-CLASS-244-158R .... c 18 N92-15114 *
US-PATENT-CLASS-244-158R .... c 16 N92-16007 *
US-PATENT-CLASS-244-158R .... c 35 N92-33010 *
US-PATENT-CLASS-244-158R .... c 18 N92-33013 *
US-PATENT-CLASS-244-158R .... c 54 N93-14713 *
US-PATENT-CLASS-244-158 ..... c 37 N76-22540 *
US-PATENT-CLASS-244-158 ..... c 27 N79-12221 *
US-PATENT-CLASS-244-159 ..... c 18 N79-11108 *
US-PATENT-CLASS-244-159 ..... c 07 N83-20944 *
US-PATENT-CLASS-244-159 ..... c 31 N83-31895 *
US-PATENT-CLASS-244-159 ..... c 18 N86-24729 *
US-PATENT-CLASS-244-159 ..... c 37 N86-25789 *
US-PATENT-CLASS-244-159 ..... c 18 N88-26398 *
US-PATENT-CLASS-244-159 ..... c 18 N89-25266 *
US-PATENT-CLASS-244-159 ..... c 18 N89-28553 *
US-PATENT-CLASS-244-159 ..... c 18 N90-16860 *
US-PATENT-CLASS-244-159 ..... c 18 N90-20126 *
US-PATENT-CLASS-244-159 ..... c 18 N91-27201 *
US-PATENT-CLASS-244-159 ..... c 54 N91-31803 * #
US-PATENT-CLASS-244-15 ..... c 05 N75-25914 *
US-PATENT-CLASS-244-15 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-160 ..... c 27 N79-12221 *

US-PATENT-CLASS-244-160 ..... c 43 N81-17499 *
US-PATENT-CLASS-244-160 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-160 ..... c 27 N82-24339 *
US-PATENT-CLASS-244-160 ..... c 27 N82-29456 *
US-PATENT-CLASS-244-160 ..... c 16 N90-22584 *
US-PATENT-CLASS-244-160 ..... c 18 N92-21999 *
US-PATENT-CLASS-244-160 ..... c 18 N92-33013 *
US-PATENT-CLASS-244-161 ..... c 18 N76-14186 *
US-PATENT-CLASS-244-161 ..... c 37 N76-22540 *
US-PATENT-CLASS-244-161 ..... c 37 N77-23483 *
US-PATENT-CLASS-244-161 ..... c 15 N78-25119 *
US-PATENT-CLASS-244-161 ..... c 37 N80-14398 *
US-PATENT-CLASS-244-161 ..... c 37 N81-14320 *
US-PATENT-CLASS-244-161 ..... c 37 N81-27519 *
US-PATENT-CLASS-244-161 ..... c 18 N83-29303 *
US-PATENT-CLASS-244-161 ..... c 18 N84-22605 *
US-PATENT-CLASS-244-161 ..... c 16 N86-26352 *
US-PATENT-CLASS-244-161 ..... c 37 N87-25582 *
US-PATENT-CLASS-244-161 ..... c 18 N89-25266 *
US-PATENT-CLASS-244-161 ..... c 18 N89-28553 *
US-PATENT-CLASS-244-161 ..... c 18 N90-20126 *
US-PATENT-CLASS-244-161 ..... c 16 N90-22584 *
US-PATENT-CLASS-244-161 ..... c 18 N91-14374 *
US-PATENT-CLASS-244-161 ..... c 37 N92-28727 *
US-PATENT-CLASS-244-161 ..... c 18 N92-28750 *
US-PATENT-CLASS-244-161 ..... c 37 N92-33018 *
US-PATENT-CLASS-244-162 ..... c 18 N75-19329 *
US-PATENT-CLASS-244-162 ..... c 18 N76-17185 *
US-PATENT-CLASS-244-162 ..... c 03 N91-15142 *
US-PATENT-CLASS-244-162 ..... c 18 N92-21999 *
US-PATENT-CLASS-244-163 ..... c 37 N76-19437 *
US-PATENT-CLASS-244-163 ..... c 24 N79-25142 *
US-PATENT-CLASS-244-163 ..... c 34 N79-31523 *
US-PATENT-CLASS-244-163 ..... c 05 N81-26114 *
US-PATENT-CLASS-244-163 ..... c 37 N82-16408 *
US-PATENT-CLASS-244-163 ..... c 27 N82-29456 *
US-PATENT-CLASS-244-163 ..... c 35 N85-29214 *
US-PATENT-CLASS-244-163 ..... c 31 N91-15424 *
US-PATENT-CLASS-244-163 ..... c 54 N91-31803 * #
US-PATENT-CLASS-244-163 ..... c 18 N92-21999 *
US-PATENT-CLASS-244-164 ..... c 35 N89-15379 *
US-PATENT-CLASS-244-164 ..... c 34 N91-25380 *
US-PATENT-CLASS-244-165 ..... c 15 N76-14158 *
US-PATENT-CLASS-244-165 ..... c 35 N77-20399 *
US-PATENT-CLASS-244-165 ..... c 35 N80-21719 *
US-PATENT-CLASS-244-165 ..... c 08 N88-23808 *
US-PATENT-CLASS-244-165 ..... c 35 N89-15379 *
US-PATENT-CLASS-244-165 ..... c 34 N91-25380 *
US-PATENT-CLASS-244-167 ..... c 15 N78-25119 *
US-PATENT-CLASS-244-168 ..... c 04 N82-23231 *
US-PATENT-CLASS-244-169 ..... c 15 N77-10113 *
US-PATENT-CLASS-244-169 ..... c 18 N83-28064 *
US-PATENT-CLASS-244-169 ..... c 20 N86-26368 *
US-PATENT-CLASS-244-16 ..... c 02 N70-41863 *
US-PATENT-CLASS-244-17.13 .... c 02 N73-19004 *
US-PATENT-CLASS-244-17.13 .... c 08 N79-23097 *
US-PATENT-CLASS-244-17.19 .... c 08 N88-23809 *
US-PATENT-CLASS-244-17.25 .... c 05 N81-19087 *
US-PATENT-CLASS-244-17.27 .... c 05 N87-14314 *
US-PATENT-CLASS-244-170 ..... c 35 N80-21719 *
US-PATENT-CLASS-244-170 ..... c 18 N83-28064 *
US-PATENT-CLASS-244-171 ..... c 15 N77-10113 *
US-PATENT-CLASS-244-171 ..... c 35 N77-20399 *
US-PATENT-CLASS-244-172 ..... c 18 N76-17185 *
US-PATENT-CLASS-244-172 ..... c 16 N84-27784 *
US-PATENT-CLASS-244-172 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-172 ..... c 05 N86-19310 *
US-PATENT-CLASS-244-172 ..... c 16 N90-22584 *
US-PATENT-CLASS-244-172 ..... c 18 N92-33013 *
US-PATENT-CLASS-244-173 ..... c 44 N75-32581 *
US-PATENT-CLASS-244-173 ..... c 37 N81-15364 *
US-PATENT-CLASS-244-173 ..... c 07 N83-20944 *
US-PATENT-CLASS-244-173 ..... c 37 N86-25789 *
US-PATENT-CLASS-244-175 ..... c 04 N82-23231 *
US-PATENT-CLASS-244-181 ..... c 08 N81-24106 *
US-PATENT-CLASS-244-181 ..... c 08 N81-26152 *
US-PATENT-CLASS-244-181 ..... c 06 N86-27280 *
US-PATENT-CLASS-244-182 ..... c 08 N81-26152 *
US-PATENT-CLASS-244-190 ..... c 04 N82-23231 *
US-PATENT-CLASS-244-194 ..... c 60 N82-29013 *
US-PATENT-CLASS-244-195 ..... c 08 N79-23097 *
US-PATENT-CLASS-244-195 ..... c 08 N81-24106 *
US-PATENT-CLASS-244-198 ..... c 05 N92-21587 *
US-PATENT-CLASS-244-199 ..... c 07 N85-35194 *
US-PATENT-CLASS-244-199 ..... c 02 N88-14071 *
US-PATENT-CLASS-244-199 ..... c 05 N91-14345 *
US-PATENT-CLASS-244-199 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-1 ..... c 31 N69-27499 * #
US-PATENT-CLASS-244-1 ..... c 03 N70-33343 *
US-PATENT-CLASS-244-1 ..... c 33 N70-33344 *
US-PATENT-CLASS-244-1 ..... c 03 N70-34157 *
US-PATENT-CLASS-244-1 ..... c 31 N70-34176 *
US-PATENT-CLASS-244-1 ..... c 21 N70-34295 *
US-PATENT-CLASS-244-1 ..... c 31 N70-34296 *
US-PATENT-CLASS-244-1 ..... c 21 N70-35395 *
US-PATENT-CLASS-244-1 ..... c 31 N70-36410 *
US-PATENT-CLASS-244-1 ..... c 33 N70-36617 *
US-PATENT-CLASS-244-1 ..... c 21 N70-36943 *
US-PATENT-CLASS-244-1 ..... c 31 N70-37924 *
US-PATENT-CLASS-244-1 ..... c 31 N70-37938 *
US-PATENT-CLASS-244-1 ..... c 31 N70-37986 *
US-PATENT-CLASS-244-1 ..... c 31 N70-38676 *
US-PATENT-CLASS-244-1 ..... c 30 N70-40016 *
US-PATENT-CLASS-244-1 ..... c 31 N70-41373 *
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US-PATENT-CLASS-244-1 ..... c 31 N70-41855 *
US-PATENT-CLASS-244-1 ..... c 21 N70-41856 *
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US-PATENT-CLASS-244-1 ..... c 03 N71-11058 *
US-PATENT-CLASS-244-1 ..... c 33 N71-14035 *
US-PATENT-CLASS-244-1 ..... c 21 N71-14132 *
US-PATENT-CLASS-244-1 ..... c 21 N71-14159 *
US-PATENT-CLASS-244-1 ..... c 21 N71-15583 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15663 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15674 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15676 *
US-PATENT-CLASS-244-1 ..... c 02 N71-16087 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16222 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16345 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16346 *
US-PATENT-CLASS-244-1 ..... c 31 N71-17679 *
US-PATENT-CLASS-244-1 ..... c 15 N71-17693 *
US-PATENT-CLASS-244-1 ..... c 31 N71-17729 *
US-PATENT-CLASS-244-1 ..... c 15 N71-19214 *
US-PATENT-CLASS-244-1 ..... c 03 N71-20273 *
US-PATENT-CLASS-244-1 ..... c 31 N71-20396 *
US-PATENT-CLASS-244-1 ..... c 31 N71-21064 *
US-PATENT-CLASS-244-1 ..... c 14 N71-21082 *
US-PATENT-CLASS-244-1 ..... c 21 N71-21708 *
US-PATENT-CLASS-244-1 ..... c 31 N71-21881 *
US-PATENT-CLASS-244-1 ..... c 33 N71-22792 *
US-PATENT-CLASS-244-1 ..... c 31 N71-22968 *
US-PATENT-CLASS-244-1 ..... c 31 N71-22969 *
US-PATENT-CLASS-244-1 ..... c 31 N71-23009 *
US-PATENT-CLASS-244-1 ..... c 14 N71-23040 *
US-PATENT-CLASS-244-1 ..... c 31 N71-23912 *
US-PATENT-CLASS-244-1 ..... c 31 N71-24315 *
US-PATENT-CLASS-244-1 ..... c 15 N71-24600 *
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US-PATENT-CLASS-244-1 ..... c 21 N71-27324 *
US-PATENT-CLASS-244-1 ..... c 33 N71-28903 *
US-PATENT-CLASS-244-1 ..... c 15 N71-28936 *
US-PATENT-CLASS-244-1 ..... c 31 N71-29050 *
US-PATENT-CLASS-244-1 ..... c 31 N71-33160 *
US-PATENT-CLASS-244-200 ..... c 02 N87-16793 *
US-PATENT-CLASS-244-200 ..... c 02 N88-14071 *
US-PATENT-CLASS-244-200 ..... c 05 N92-21587 *
US-PATENT-CLASS-244-203 ..... c 34 N91-14562 *
US-PATENT-CLASS-244-204 ..... c 02 N87-16793 *
US-PATENT-CLASS-244-204 ..... c 34 N91-14562 *
US-PATENT-CLASS-244-207 ..... c 05 N88-28914 *
US-PATENT-CLASS-244-212 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-212 ..... c 05 N92-21587 *
US-PATENT-CLASS-244-213 ..... c 08 N82-24205 *
US-PATENT-CLASS-244-214 ..... c 08 N85-19985 *
US-PATENT-CLASS-244-215 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-215 ..... c 05 N92-21587 *
US-PATENT-CLASS-244-216 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-217 ..... c 37 N82-16408 *
US-PATENT-CLASS-244-218 ..... c 05 N78-32086 *
US-PATENT-CLASS-244-218 ..... c 08 N79-14108 *
US-PATENT-CLASS-244-219 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-226 ..... c 08 N82-24205 *
US-PATENT-CLASS-244-23A ..... c 21 N72-25595 *
US-PATENT-CLASS-244-23C ..... c 05 N82-26277 *
US-PATENT-CLASS-244-23D ..... c 34 N76-18364 *
US-PATENT-CLASS-244-234 ..... c 08 N86-27288 *
US-PATENT-CLASS-244-23 ..... c 02 N71-11039 *
US-PATENT-CLASS-244-2 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-2 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-3.14 ..... c 31 N71-17691 *
US-PATENT-CLASS-244-3.16 ..... c 19 N74-15089 *
US-PATENT-CLASS-244-3.21 ..... c 30 N72-17873 *
US-PATENT-CLASS-244-3.21 ..... c 15 N76-14158 *
US-PATENT-CLASS-244-3.21 ..... c 15 N77-10113 *
US-PATENT-CLASS-244-3.21 ..... c 35 N77-20399 *
US-PATENT-CLASS-244-3.22 ..... c 31 N71-17629 *
US-PATENT-CLASS-244-3.22 ..... c 28 N72-22769 *
US-PATENT-CLASS-244-3.22 ..... c 20 N76-21275 *
US-PATENT-CLASS-244-31 ..... c 02 N71-11037 *
US-PATENT-CLASS-244-31 ..... c 31 N71-16081 *
US-PATENT-CLASS-244-31 ..... c 34 N74-23039 *
US-PATENT-CLASS-244-327 ..... c 08 N74-30421 *
US-PATENT-CLASS-244-32 ..... c 02 N73-13008 *
US-PATENT-CLASS-244-34A ..... c 05 N82-26277 *
US-PATENT-CLASS-244-35-R ..... c 02 N89-14224 *
US-PATENT-CLASS-244-35A ..... c 02 N84-11136 *
US-PATENT-CLASS-244-35R ..... c 02 N76-22154 *
US-PATENT-CLASS-244-35R ..... c 02 N84-11136 *
US-PATENT-CLASS-244-35R ..... c 02 N84-28732 *
US-PATENT-CLASS-244-35R ..... c 02 N87-16793 *
US-PATENT-CLASS-244-35R ..... c 02 N92-28729 *
US-PATENT-CLASS-244-35 ..... c 01 N71-13410 *
US-PATENT-CLASS-244-36 ..... c 02 N92-28729 *
US-PATENT-CLASS-244-40R ..... c 02 N76-22154 *
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US-PATENT-CLASS-244-42DA .... c 05 N75-25914 *
US-PATENT-CLASS-244-42 ..... c 02 N70-42016 *
US-PATENT-CLASS-244-42 ..... c 02 N71-26110 *
US-PATENT-CLASS-244-43 ..... c 02 N70-33255 *
US-PATENT-CLASS-244-43 ..... c 02 N71-11043 *
US-PATENT-CLASS-244-44 ..... c 02 N71-11038 *
US-PATENT-CLASS-244-45-A .... c 05 N88-28914 *
US-PATENT-CLASS-244-45A ..... c 05 N78-32086 *
US-PATENT-CLASS-244-45A ..... c 05 N90-23390 *
US-PATENT-CLASS-244-45R ..... c 05 N84-12154 *
US-PATENT-CLASS-244-45 ..... c 02 N71-12243 *
US-PATENT-CLASS-244-46 ..... c 02 N70-33266 *
US-PATENT-CLASS-244-46 ..... c 02 N70-33286 *
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US-PATENT-CLASS-244-46 ..... c 08 N79-14108 *
US-PATENT-CLASS-244-46 ..... c 05 N90-23390 *
US-PATENT-CLASS-244-48 ..... c 05 N79-12061 *
US-PATENT-CLASS-244-48 ..... c 05 N82-28279 *
US-PATENT-CLASS-244-49 ..... c 43 N81-17499 *
US-PATENT-CLASS-244-4 ..... c 05 N69-21380 * #
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US-PATENT-CLASS-244-51 ..... c 02 N70-34856 *
US-PATENT-CLASS-244-52 ..... c 08 N81-19130 *
US-PATENT-CLASS-244-53A ..... c 07 N78-18066 *
US-PATENT-CLASS-244-53B ..... c 02 N74-20646 *
US-PATENT-CLASS-244-53B ..... c 07 N75-24736 *
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US-PATENT-CLASS-244-53B ..... c 85 N82-33288 *
US-PATENT-CLASS-244-53R ..... c 05 N84-12154 *
US-PATENT-CLASS-244-53 ..... c 28 N71-15563 *
US-PATENT-CLASS-244-54 ..... c 07 N78-18066 *
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US-PATENT-CLASS-244-55 ..... c 05 N90-20078 *
US-PATENT-CLASS-244-57 ..... c 15 N71-26611 *
US-PATENT-CLASS-244-58 ..... c 05 N91-14345 *
US-PATENT-CLASS-244-63 ..... c 09 N77-19076 *
US-PATENT-CLASS-244-63 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-63 ..... c 16 N84-27784 *
US-PATENT-CLASS-244-63 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-63 ..... c 14 N92-15081 *
US-PATENT-CLASS-244-75-R .... c 08 N85-35200 *
US-PATENT-CLASS-244-75-R .... c 05 N89-11738 *
US-PATENT-CLASS-244-75A ..... c 02 N73-26004 *
US-PATENT-CLASS-244-75R ..... c 05 N75-12930 *
US-PATENT-CLASS-244-75R ..... c 05 N85-21147 *
US-PATENT-CLASS-244-75R ..... c 05 N90-23390 *
US-PATENT-CLASS-244-75R ..... c 02 N91-27139 *
US-PATENT-CLASS-244-75R ..... c 05 N91-31140 *
US-PATENT-CLASS-244-76-R .... c 08 N87-20999 *
US-PATENT-CLASS-244-76C ..... c 02 N73-26004 *
US-PATENT-CLASS-244-76 ..... c 21 N70-34539 *
US-PATENT-CLASS-244-76 ..... c 02 N71-13422 *
US-PATENT-CLASS-244-76 ..... c 02 N71-20570 *
US-PATENT-CLASS-244-77A ..... c 04 N74-13420 *
US-PATENT-CLASS-244-77B ..... c 04 N74-13420 *
US-PATENT-CLASS-244-77D ..... c 02 N73-19004 *
US-PATENT-CLASS-244-77F ..... c 02 N73-26004 *
US-PATENT-CLASS-244-77G ..... c 02 N73-26004 *
US-PATENT-CLASS-244-77 ..... c 32 N71-23971 *
US-PATENT-CLASS-244-78 ..... c 08 N82-24205 *
US-PATENT-CLASS-244-78 ..... c 05 N89-11738 *
US-PATENT-CLASS-244-79 ..... c 04 N76-26175 *
US-PATENT-CLASS-244-82 ..... c 05 N79-12061 *
US-PATENT-CLASS-244-83G ..... c 08 N79-23097 *
US-PATENT-CLASS-244-83R ..... c 05 N75-12930 *
US-PATENT-CLASS-244-83 ..... c 21 N70-33279 *
US-PATENT-CLASS-244-83 ..... c 15 N71-23255 *
US-PATENT-CLASS-244-83 ..... c 31 N71-33160 *
US-PATENT-CLASS-244-83 ..... c 08 N74-10942 *

US-PATENT-CLASS-244-87 ..... c 08 N81-19130 *
US-PATENT-CLASS-244-87 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-88 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-90R ..... c 08 N74-30421 *
US-PATENT-CLASS-244-90R ..... c 05 N79-12061 *
US-PATENT-CLASS-244-90R ..... c 08 N79-14108 *
US-PATENT-CLASS-244-90R ..... c 08 N85-19985 *
US-PATENT-CLASS-244-90R ..... c 05 N90-23390 *
US-PATENT-CLASS-244-90 ..... c 02 N71-27088 *
US-PATENT-CLASS-244-91 ..... c 08 N74-30421 *
US-PATENT-CLASS-244-91 ..... c 05 N84-12154 *
US-PATENT-CLASS-244-91 ..... c 08 N88-23809 *
US-PATENT-CLASS-244-93 ..... c 05 N82-26277 *
US-PATENT-CLASS-244/161 ..... c 37 N87-22985 *
US-PATENT-CLASS-247-171 ..... c 35 N75-23910 *
US-PATENT-CLASS-248-DIG-1 ... c 18 N89-28554 *
US-PATENT-CLASS-248-119 ..... c 11 N70-35383 *
US-PATENT-CLASS-248-14 ..... c 15 N72-17454 *
US-PATENT-CLASS-248-16 ..... c 18 N74-27397 *
US-PATENT-CLASS-248-178 ..... c 15 N70-41310 *
US-PATENT-CLASS-248-178 ..... c 37 N78-27425 *
US-PATENT-CLASS-248-181 ..... c 37 N91-21543 *
US-PATENT-CLASS-248-183 ..... c 14 N71-26627 *
US-PATENT-CLASS-248-183 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-186 ..... c 37 N78-27425 *
US-PATENT-CLASS-248-188.4 .... c 15 N72-27484 *
US-PATENT-CLASS-248-188.9 .... c 31 N70-34159 *
US-PATENT-CLASS-248-18 ..... c 14 N69-27486 * #
US-PATENT-CLASS-248-18 ..... c 15 N72-11391 *
US-PATENT-CLASS-248-20 ..... c 15 N72-11391 *
US-PATENT-CLASS-248-222.1 .... c 37 N92-29092 *
US-PATENT-CLASS-248-228 ..... c 37 N84-16560 *
US-PATENT-CLASS-248-229 ..... c 37 N91-14617 *
US-PATENT-CLASS-248-22 ..... c 19 N76-22284 *
US-PATENT-CLASS-248-230 ..... c 37 N91-14617 *
US-PATENT-CLASS-248-23 ..... c 18 N74-27397 *
US-PATENT-CLASS-248-251 ..... c 37 N92-29092 *
US-PATENT-CLASS-248-278 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-27 ..... c 15 N71-20813 *
US-PATENT-CLASS-248-316.4 .... c 37 N87-21333 *
US-PATENT-CLASS-248-317 ..... c 11 N69-27466 * #
US-PATENT-CLASS-248-346 ..... c 14 N70-39898 *
US-PATENT-CLASS-248-358R .... c 37 N75-18573 *
US-PATENT-CLASS-248-358R .... c 19 N76-22284 *
US-PATENT-CLASS-248-358 ..... c 15 N70-40156 *
US-PATENT-CLASS-248-358 ..... c 23 N71-15673 *
US-PATENT-CLASS-248-358 ..... c 15 N71-24694 *
US-PATENT-CLASS-248-36-3 ..... c 37 N78-17383 *
US-PATENT-CLASS-248-360 ..... c 15 N71-17649 *
US-PATENT-CLASS-248-361 ..... c 05 N71-28619 *
US-PATENT-CLASS-248-362 ..... c 37 N76-21554 *
US-PATENT-CLASS-248-363 ..... c 37 N76-21554 *
US-PATENT-CLASS-248-425 ..... c 37 N82-21587 *
US-PATENT-CLASS-248-453 ..... c 37 N92-33616 *
US-PATENT-CLASS-248-455 ..... c 37 N92-33616 *
US-PATENT-CLASS-248-463 ..... c 37 N92-33616 *
US-PATENT-CLASS-248-487 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-503 ..... c 18 N85-29991 *
US-PATENT-CLASS-248-548 ..... c 37 N88-23982 *
US-PATENT-CLASS-248-550 ..... c 37 N85-34401 *
US-PATENT-CLASS-248-550 ..... c 37 N87-21333 *
US-PATENT-CLASS-248-550 ..... c 37 N92-34173 *
US-PATENT-CLASS-248-550 ..... c 39 N93-13420 *
US-PATENT-CLASS-248-555 ..... c 18 N85-29991 *
US-PATENT-CLASS-248-593 ..... c 37 N91-21541 *
US-PATENT-CLASS-248-604 ..... c 37 N91-21541 *
US-PATENT-CLASS-248-608 ..... c 37 N88-23982 *
US-PATENT-CLASS-248-636 ..... c 35 N83-32026 *
US-PATENT-CLASS-248-638 ..... c 35 N83-32026 *
US-PATENT-CLASS-248-638 ..... c 05 N87-14314 *
US-PATENT-CLASS-248-650 ..... c 37 N91-21543 *
US-PATENT-CLASS-248-65 ..... c 33 N92-29153 *
US-PATENT-CLASS-248-677 ..... c 37 N91-21543 *
US-PATENT-CLASS-248-68.1 ..... c 33 N92-29153 *
US-PATENT-CLASS-248 ..... c 25 N79-28253 *
US-PATENT-CLASS-249-127 ..... c 31 N90-21216 *
US-PATENT-CLASS-249-144 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-145 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-145 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-184 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-59 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-83 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-95 ..... c 31 N74-32920 *
US-PATENT-CLASS-25-156 ..... c 15 N71-16076 *
US-PATENT-CLASS-250-105 ..... c 14 N70-40240 *
US-PATENT-CLASS-250-105 ..... c 14 N73-30389 *
US-PATENT-CLASS-250-199 ..... c 16 N69-27491 * #
US-PATENT-CLASS-250-199 ..... c 07 N71-12389 *
US-PATENT-CLASS-250-199 ..... c 16 N71-22895 *
US-PATENT-CLASS-250-199 ..... c 16 N71-25914 *
US-PATENT-CLASS-250-199 ..... c 16 N71-27183 *
US-PATENT-CLASS-250-199 ..... c 16 N73-16536 *
US-PATENT-CLASS-250-199 ..... c 07 N73-26119 *
US-PATENT-CLASS-250-199 ..... c 74 N76-18913 *
US-PATENT-CLASS-250-199 ..... c 74 N76-30053 *
US-PATENT-CLASS-250-199 ..... c 74 N77-26942 *
US-PATENT-CLASS-250-199 ..... c 32 N77-28346 *
US-PATENT-CLASS-250-199 ..... c 60 N77-32731 *
US-PATENT-CLASS-250-199 ..... c 74 N78-14889 *
US-PATENT-CLASS-250-201.9 .... c 74 N92-29122 *
US-PATENT-CLASS-250-201 ..... c 14 N70-40238 *
US-PATENT-CLASS-250-201 ..... c 35 N75-15014 *
US-PATENT-CLASS-250-201 ..... c 74 N78-17866 *
US-PATENT-CLASS-250-203R .... c 14 N72-27409 *
US-PATENT-CLASS-250-203R .... c 14 N73-25462 *
US-PATENT-CLASS-250-203R .... c 14 N73-28490 *
US-PATENT-CLASS-250-203R .... c 21 N73-30640 *
US-PATENT-CLASS-250-203R .... c 19 N74-15089 *
US-PATENT-CLASS-250-203R .... c 89 N74-30886 *
US-PATENT-CLASS-250-203R .... c 35 N77-20401 *
US-PATENT-CLASS-250-203R .... c 74 N77-22951 *
US-PATENT-CLASS-250-203R .... c 44 N81-24520 *
US-PATENT-CLASS-250-203R .... c 32 N83-18975 *
US-PATENT-CLASS-250-203R .... c 47 N83-32232 *
US-PATENT-CLASS-250-203R .... c 44 N88-14492 *
US-PATENT-CLASS-250-203X .... c 16 N72-13437 *
US-PATENT-CLASS-250-203 ..... c 14 N69-27432 * #
US-PATENT-CLASS-250-203 ..... c 14 N69-27485 * #
US-PATENT-CLASS-250-203 ..... c 07 N69-39736 * #
US-PATENT-CLASS-250-203 ..... c 14 N70-34158 *
US-PATENT-CLASS-250-203 ..... c 21 N70-35089 *
US-PATENT-CLASS-250-203 ..... c 14 N70-40239 *
US-PATENT-CLASS-250-203 ..... c 21 N71-10678 *
US-PATENT-CLASS-250-203 ..... c 21 N71-10771 *
US-PATENT-CLASS-250-203 ..... c 21 N71-15642 *
US-PATENT-CLASS-250-203 ..... c 14 N71-19568 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23269 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23797 *
US-PATENT-CLASS-250-203 ..... c 14 N72-22444 *
US-PATENT-CLASS-250-203 ..... c 14 N73-30393 *
US-PATENT-CLASS-250-203 ..... c 35 N75-23910 *
US-PATENT-CLASS-250-204 ..... c 36 N74-21091 *
US-PATENT-CLASS-250-205 ..... c 14 N72-27411 *
US-PATENT-CLASS-250-205 ..... c 09 N73-14214 *
US-PATENT-CLASS-250-205 ..... c 36 N74-13205 *
US-PATENT-CLASS-250-206 ..... c 10 N71-20782 *
US-PATENT-CLASS-250-207 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-207 ..... c 14 N73-32317 *
US-PATENT-CLASS-250-207 ..... c 33 N74-27682 *
US-PATENT-CLASS-250-208 ..... c 14 N72-20379 *
US-PATENT-CLASS-250-209 ..... c 07 N69-39980 * #
US-PATENT-CLASS-250-209 ..... c 20 N71-16340 *
US-PATENT-CLASS-250-209 ..... c 10 N72-17173 *
US-PATENT-CLASS-250-209 ..... c 14 N72-25409 *
US-PATENT-CLASS-250-209 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-209 ..... c 14 N73-26432 *
US-PATENT-CLASS-250-209 ..... c 14 N73-28490 *
US-PATENT-CLASS-250-209 ..... c 21 N73-30640 *
US-PATENT-CLASS-250-209 ..... c 44 N81-24520 *
US-PATENT-CLASS-250-211J ..... c 09 N72-17152 *
US-PATENT-CLASS-250-211J ..... c 09 N73-14214 *
US-PATENT-CLASS-250-211J ..... c 35 N74-15090 *
US-PATENT-CLASS-250-211K .... c 74 N77-22951 *
US-PATENT-CLASS-250-211K .... c 44 N80-18552 *
US-PATENT-CLASS-250-211K .... c 08 N86-27288 *
US-PATENT-CLASS-250-211R .... c 36 N75-19652 *
US-PATENT-CLASS-250-211R .... c 35 N75-23910 *
US-PATENT-CLASS-250-212 ..... c 03 N71-23354 *
US-PATENT-CLASS-250-212 ..... c 03 N73-20040 *
US-PATENT-CLASS-250-212 ..... c 09 N73-32109 *
US-PATENT-CLASS-250-213VT .. c 74 N78-18905 *
US-PATENT-CLASS-250-214AL .. c 74 N79-12890 *
US-PATENT-CLASS-250-214A .... c 33 N77-14335 *
US-PATENT-CLASS-250-214R .... c 14 N73-28490 *
US-PATENT-CLASS-250-214R .... c 74 N79-12890 *
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 *
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 *
US-PATENT-CLASS-250-214 ..... c 35 N74-15090 *
US-PATENT-CLASS-250-214 ..... c 33 N82-28545 *
US-PATENT-CLASS-250-215 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-216 ..... c 74 N79-34011 *
US-PATENT-CLASS-250-216 ..... c 74 N82-24072 *
US-PATENT-CLASS-250-216 ..... c 74 N89-14077 *
US-PATENT-CLASS-250-216 ..... c 74 N92-33028 *
US-PATENT-CLASS-250-217F .... c 14 N73-16484 *
US-PATENT-CLASS-250-217R .... c 14 N73-19419 *
US-PATENT-CLASS-250-217SS .. c 09 N73-14214 *
US-PATENT-CLASS-250-217SS .. c 36 N74-15145 *
US-PATENT-CLASS-250-217 ..... c 14 N69-39896 * #
US-PATENT-CLASS-250-217 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-217 ..... c 36 N74-13205 *
US-PATENT-CLASS-250-218 ..... c 14 N71-22996 *
US-PATENT-CLASS-250-218 ..... c 14 N71-28994 *
US-PATENT-CLASS-250-218 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-219DF .. c 91 N74-13130 *
US-PATENT-CLASS-250-219TH .. c 26 N73-26751 *
US-PATENT-CLASS-250-219 ..... c 14 N71-28993 *
US-PATENT-CLASS-250-221 ..... c 33 N82-28545 *
US-PATENT-CLASS-250-221 ..... c 74 N85-22139 *
US-PATENT-CLASS-250-225 ..... c 14 N71-24864 *
US-PATENT-CLASS-250-225 ..... c 14 N72-27409 *
US-PATENT-CLASS-250-225 ..... c 32 N86-20647 *
US-PATENT-CLASS-250-226 ..... c 14 N72-25409 *
US-PATENT-CLASS-250-226 ..... c 43 N79-17288 *
US-PATENT-CLASS-250-226 ..... c 74 N82-30071 *
US-PATENT-CLASS-250-227.21 .. c 74 N92-33017 *
US-PATENT-CLASS-250-227 ..... c 14 N71-22991 *
US-PATENT-CLASS-250-227 ..... c 14 N71-23240 *
US-PATENT-CLASS-250-227 ..... c 60 N77-14751 *
US-PATENT-CLASS-250-227 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-227 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-227 ..... c 74 N84-11921 *
US-PATENT-CLASS-250-227 ..... c 74 N91-21871 *
US-PATENT-CLASS-250-228 ..... c 74 N86-26190 *
US-PATENT-CLASS-250-229 ..... c 08 N73-30135 *
US-PATENT-CLASS-250-229 ..... c 74 N90-22383 *
US-PATENT-CLASS-250-231.14 .. c 74 N92-29133 *
US-PATENT-CLASS-250-231.19 .. c 74 N92-33017 *
US-PATENT-CLASS-250-231-GY c 74 N87-23259 *
US-PATENT-CLASS-250-231R .... c 74 N82-30071 *
US-PATENT-CLASS-250-231SE .. c 74 N74-21304 *
US-PATENT-CLASS-250-231SE .. c 44 N80-18552 *
US-PATENT-CLASS-250-231 ..... c 14 N73-20475 *
US-PATENT-CLASS-250-232 ..... c 23 N71-21821 *
US-PATENT-CLASS-250-233 ..... c 23 N71-16100 *
US-PATENT-CLASS-250-234 ..... c 03 N73-20040 *
US-PATENT-CLASS-250-235 ..... c 14 N72-11364 *
US-PATENT-CLASS-250-235 ..... c 43 N82-13465 *
US-PATENT-CLASS-250-235 ..... c 74 N82-24072 *
US-PATENT-CLASS-250-236 ..... c 21 N73-30640 *
US-PATENT-CLASS-250-236 ..... c 43 N82-13465 *
US-PATENT-CLASS-250-237G .... c 74 N79-20856 *
US-PATENT-CLASS-250-237R .... c 08 N73-30135 *
US-PATENT-CLASS-250-237R .... c 19 N74-15089 *
US-PATENT-CLASS-250-237 ..... c 14 N69-24331 * #
US-PATENT-CLASS-250-238 ..... c 33 N75-31332 *
US-PATENT-CLASS-250-238 ..... c 32 N77-28346 *
US-PATENT-CLASS-250-238 ..... c 37 N87-23982 *
US-PATENT-CLASS-250-239 ..... c 08 N73-30135 *
US-PATENT-CLASS-250-239 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-251 ..... c 35 N76-15431 *
US-PATENT-CLASS-250-251 ..... c 35 N84-33767 *
US-PATENT-CLASS-250-251 ..... c 72 N87-21661 *
US-PATENT-CLASS-250-251 ..... c 72 N88-24253 *
US-PATENT-CLASS-250-252.1 .... c 35 N84-33767 *
US-PATENT-CLASS-250-252 ..... c 72 N89-29169 *
US-PATENT-CLASS-250-253 ..... c 43 N79-31706 *
US-PATENT-CLASS-250-272 ..... c 74 N78-15880 *
US-PATENT-CLASS-250-272 ..... c 43 N79-31706 *
US-PATENT-CLASS-250-277CH .. c 76 N78-24950 *
US-PATENT-CLASS-250-277CH .. c 74 N80-21140 *
US-PATENT-CLASS-250-280 ..... c 76 N78-24950 *
US-PATENT-CLASS-250-280 ..... c 74 N80-21140 *
US-PATENT-CLASS-250-281 ..... c 35 N74-34857 *
US-PATENT-CLASS-250-281 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-281 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-281 ..... c 72 N80-14877 *
US-PATENT-CLASS-250-281 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-282 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-282 ..... c 72 N80-14877 *
US-PATENT-CLASS-250-282 ..... c 35 N83-27184 *
US-PATENT-CLASS-250-282 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-283 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-286 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-287 ..... c 35 N76-15431 *
US-PATENT-CLASS-250-287 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-287 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-288 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-288 ..... c 35 N77-32456 *
US-PATENT-CLASS-250-288 ..... c 35 N83-27184 *
US-PATENT-CLASS-250-288 ..... c 72 N87-21660 *
US-PATENT-CLASS-250-288 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-289 ..... c 35 N77-14406 *
US-PATENT-CLASS-250-290 ..... c 35 N77-10492 *
US-PATENT-CLASS-250-291 ..... c 35 N77-10492 *
US-PATENT-CLASS-250-295 ..... c 35 N74-34857 *
US-PATENT-CLASS-250-296 ..... c 35 N84-28016 *
US-PATENT-CLASS-250-298 ..... c 35 N77-14406 *
US-PATENT-CLASS-250-304 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-305 ..... c 72 N84-28575 *
US-PATENT-CLASS-250-305 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-306 ..... c 72 N91-27936 *
US-PATENT-CLASS-250-307 ..... c 25 N80-20334 *
US-PATENT-CLASS-250-307 ..... c 72 N91-27936 *
US-PATENT-CLASS-250-308 ..... c 25 N80-20334 *
US-PATENT-CLASS-250-310 ..... c 35 N78-10429 *
US-PATENT-CLASS-250-310 ..... c 33 N80-14332 *
US-PATENT-CLASS-250-310 ..... c 35 N90-20351 *
US-PATENT-CLASS-250-311 ..... c 33 N83-18996 *
US-PATENT-CLASS-250-320 ..... c 74 N78-15880 *
US-PATENT-CLASS-250-322 ..... c 35 N78-15461 *
US-PATENT-CLASS-250-327.2 .... c 74 N91-14835 *
US-PATENT-CLASS-250-330 ..... c 44 N82-32841 *
US-PATENT-CLASS-250-332 ..... c 35 N75-19613 *
US-PATENT-CLASS-250-332 ..... c 31 N78-25256 *
US-PATENT-CLASS-250-332 ..... c 35 N82-31659 *
US-PATENT-CLASS-250-332 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-332 ..... c 74 N84-28590 *

US-PATENT-CLASS-250-335 ..... c 34 N76-18374 *
US-PATENT-CLASS-250-336.1 .... c 72 N86-33127 *
US-PATENT-CLASS-250-336 ..... c 14 N73-28488 *
US-PATENT-CLASS-250-336 ..... c 35 N76-15433 *
US-PATENT-CLASS-250-336 ..... c 33 N76-27473 *
US-PATENT-CLASS-250-336 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-338.1 .... c 35 N91-14588 *
US-PATENT-CLASS-250-338.2 .... c 35 N91-14588 *
US-PATENT-CLASS-250-338 ..... c 35 N74-18088 *
US-PATENT-CLASS-250-338 ..... c 35 N77-10493 *
US-PATENT-CLASS-250-338 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-338 ..... c 35 N80-26635 *
US-PATENT-CLASS-250-338 ..... c 35 N83-21311 *
US-PATENT-CLASS-250-338 ..... c 74 N84-28590 *
US-PATENT-CLASS-250-338 ..... c 72 N86-33127 *
US-PATENT-CLASS-250-338 ..... c 76 N87-13313 *
US-PATENT-CLASS-250-339 ..... c 35 N77-10493 *
US-PATENT-CLASS-250-339 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-339 ..... c 35 N84-33766 *
US-PATENT-CLASS-250-339 ..... c 36 N85-21631 *
US-PATENT-CLASS-250-339 ..... c 36 N85-29264 *
US-PATENT-CLASS-250-339 ..... c 36 N87-28006 *
US-PATENT-CLASS-250-339 ..... c 74 N93-13419 *
US-PATENT-CLASS-250-340 ..... c 35 N76-29551 *
US-PATENT-CLASS-250-340 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-340 ..... c 72 N86-33127 *
US-PATENT-CLASS-250-341 ..... c 32 N87-21206 *
US-PATENT-CLASS-250-343 ..... c 35 N74-11284 *
US-PATENT-CLASS-250-343 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-343 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-343 ..... c 74 N76-20958 *
US-PATENT-CLASS-250-343 ..... c 25 N76-22323 *
US-PATENT-CLASS-250-343 ..... c 35 N77-14411 *
US-PATENT-CLASS-250-343 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-343 ..... c 25 N81-14015 *
US-PATENT-CLASS-250-343 ..... c 35 N84-34705 *
US-PATENT-CLASS-250-343 ..... c 36 N85-21631 *
US-PATENT-CLASS-250-343 ..... c 36 N87-28006 *
US-PATENT-CLASS-250-344 ..... c 25 N76-22323 *
US-PATENT-CLASS-250-344 ..... c 74 N78-17867 *
US-PATENT-CLASS-250-345 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-347 ..... c 35 N77-10493 *
US-PATENT-CLASS-250-347 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-347 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-350 ..... c 25 N81-25159 *
US-PATENT-CLASS-250-350 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-351 ..... c 35 N75-30502 *
US-PATENT-CLASS-250-351 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-351 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-351 ..... c 35 N84-34705 *
US-PATENT-CLASS-250-352 ..... c 31 N79-17029 *
US-PATENT-CLASS-250-352 ..... c 34 N79-20336 *
US-PATENT-CLASS-250-352 ..... c 35 N80-26635 *
US-PATENT-CLASS-250-352 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-352 ..... c 37 N87-23982 *
US-PATENT-CLASS-250-353 ..... c 35 N76-29551 *
US-PATENT-CLASS-250-353 ..... c 35 N80-26635 *
US-PATENT-CLASS-250-353 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-356.1 .... c 47 N84-28292 *
US-PATENT-CLASS-250-356.1 .... c 35 N91-31608 *
US-PATENT-CLASS-250-358.1 .... c 72 N91-27936 *
US-PATENT-CLASS-250-359 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-360 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-361 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-363R .... c 52 N77-14737 *
US-PATENT-CLASS-250-363R .... c 74 N79-20857 *
US-PATENT-CLASS-250-363R .... c 74 N84-11920 *
US-PATENT-CLASS-250-363S .... c 74 N84-11920 *
US-PATENT-CLASS-250-363S .... c 35 N85-30281 *
US-PATENT-CLASS-250-367 ..... c 35 N84-33765 *
US-PATENT-CLASS-250-368 ..... c 74 N81-24900 *
US-PATENT-CLASS-250-368 ..... c 74 N84-11920 *
US-PATENT-CLASS-250-369 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-369 ..... c 35 N82-32659 *
US-PATENT-CLASS-250-369 ..... c 35 N85-30281 *
US-PATENT-CLASS-250-370.12 .. c 35 N91-14588 *
US-PATENT-CLASS-250-370.13 .. c 35 N91-14588 *
US-PATENT-CLASS-250-370 ..... c 35 N74-18088 *
US-PATENT-CLASS-250-370 ..... c 33 N75-31332 *
US-PATENT-CLASS-250-370 ..... c 35 N82-31659 *
US-PATENT-CLASS-250-370 ..... c 44 N82-32841 *
US-PATENT-CLASS-250-370 ..... c 76 N87-13313 *
US-PATENT-CLASS-250-371 ..... c 35 N74-18088 *
US-PATENT-CLASS-250-372 ..... c 19 N74-29410 *
US-PATENT-CLASS-250-372 ..... c 24 N76-24363 *
US-PATENT-CLASS-250-372 ..... c 33 N76-27473 *
US-PATENT-CLASS-250-372 ..... c 35 N83-21311 *
US-PATENT-CLASS-250-372 ..... c 35 N84-33767 *
US-PATENT-CLASS-250-373 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-373 ..... c 35 N75-30502 *
US-PATENT-CLASS-250-373 ..... c 45 N76-17656 *
US-PATENT-CLASS-250-373 ..... c 36 N87-28006 *
US-PATENT-CLASS-250-374 ..... c 35 N74-26949 *
US-PATENT-CLASS-250-374 ..... c 35 N85-34374 *
US-PATENT-CLASS-250-379 ..... c 35 N85-34374 *
US-PATENT-CLASS-250-385 ..... c 35 N74-26949 *
US-PATENT-CLASS-250-385 ..... c 35 N75-27331 *
US-PATENT-CLASS-250-385 ..... c 35 N76-15433 *
US-PATENT-CLASS-250-385 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-385 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-385 ..... c 35 N84-33765 *
US-PATENT-CLASS-250-386 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-388 ..... c 33 N83-24763 *
US-PATENT-CLASS-250-389 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-394 ..... c 14 N73-30392 *
US-PATENT-CLASS-250-394 ..... c 19 N74-29410 *
US-PATENT-CLASS-250-396-ML c 35 N90-20351 *
US-PATENT-CLASS-250-396-R ... c 72 N87-21661 *
US-PATENT-CLASS-250-396-R ... c 35 N90-20351 *
US-PATENT-CLASS-250-396 ..... c 35 N77-14408 *
US-PATENT-CLASS-250-397 ..... c 72 N89-29169 *
US-PATENT-CLASS-250-398 ..... c 35 N78-10429 *
US-PATENT-CLASS-250-400 ..... c 25 N76-29379 *
US-PATENT-CLASS-250-400 ..... c 25 N78-27226 *
US-PATENT-CLASS-250-41.9D ... c 14 N72-29464 *
US-PATENT-CLASS-250-41.9G ... c 14 N73-12444 *
US-PATENT-CLASS-250-41.9S .... c 14 N73-12444 *
US-PATENT-CLASS-250-41.95 .... c 14 N71-28992 *
US-PATENT-CLASS-250-41.9 ..... c 06 N71-13461 *
US-PATENT-CLASS-250-41.9 ..... c 24 N71-16095 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-23041 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-28863 *
US-PATENT-CLASS-250-41.9 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-41.9 ..... c 14 N73-32325 *
US-PATENT-CLASS-250-416TV .. c 35 N78-15461 *
US-PATENT-CLASS-250-423-P ... c 72 N87-21661 *
US-PATENT-CLASS-250-423-P ... c 25 N88-24732 *
US-PATENT-CLASS-250-423-R ... c 33 N87-21234 *
US-PATENT-CLASS-250-423-R ... c 72 N87-21660 *
US-PATENT-CLASS-250-423-R ... c 72 N88-24253 *
US-PATENT-CLASS-250-423P ..... c 36 N77-26477 *
US-PATENT-CLASS-250-423P ..... c 25 N78-25148 *
US-PATENT-CLASS-250-423P ..... c 72 N80-14877 *
US-PATENT-CLASS-250-423 ..... c 35 N76-15431 *
US-PATENT-CLASS-250-423 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-423 ..... c 35 N83-27184 *
US-PATENT-CLASS-250-423 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-424 ..... c 72 N87-21660 *
US-PATENT-CLASS-250-426 ..... c 33 N85-21491 *
US-PATENT-CLASS-250-427 ..... c 72 N80-27163 *
US-PATENT-CLASS-250-427 ..... c 72 N87-21660 *
US-PATENT-CLASS-250-427 ..... c 72 N88-24253 *
US-PATENT-CLASS-250-427 ..... c 25 N88-24732 *
US-PATENT-CLASS-250-429 ..... c 25 N76-29379 *
US-PATENT-CLASS-250-429 ..... c 25 N78-27226 *
US-PATENT-CLASS-250-43.5FC . c 14 N72-11365 *
US-PATENT-CLASS-250-43.5R ... c 14 N71-27090 *
US-PATENT-CLASS-250-43.5R ... c 14 N72-21408 *
US-PATENT-CLASS-250-43.5R ... c 06 N72-25146 *
US-PATENT-CLASS-250-43.5R ... c 06 N72-31141 *
US-PATENT-CLASS-250-43.5 ..... c 27 N71-16348 *
US-PATENT-CLASS-250-43.5 ..... c 15 N71-24896 *
US-PATENT-CLASS-250-43.5 ..... c 14 N71-25901 *
US-PATENT-CLASS-250-432R .... c 25 N76-22323 *
US-PATENT-CLASS-250-432 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-444 ..... c 52 N77-14737 *
US-PATENT-CLASS-250-457 ..... c 35 N80-28686 *
US-PATENT-CLASS-250-459.1 .... c 35 N90-22770 *
US-PATENT-CLASS-250-460 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-461.1 .... c 35 N90-22770 *
US-PATENT-CLASS-250-474.1 .... c 35 N83-21311 *
US-PATENT-CLASS-250-475 ..... c 35 N79-10389 *
US-PATENT-CLASS-250-483.1 .... c 35 N84-33765 *
US-PATENT-CLASS-250-483 ..... c 74 N79-20857 *
US-PATENT-CLASS-250-483 ..... c 74 N81-24900 *
US-PATENT-CLASS-250-484.1 .... c 74 N91-14835 *
US-PATENT-CLASS-250-489 ..... c 35 N76-15433 *
US-PATENT-CLASS-250-49.5B ... c 24 N72-11595 *
US-PATENT-CLASS-250-49.5TE . c 24 N72-11595 *
US-PATENT-CLASS-250-49.5 ..... c 14 N69-39982 * #
US-PATENT-CLASS-250-49.5 ..... c 14 N71-28863 *
US-PATENT-CLASS-250-49.5 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-491 ..... c 35 N80-28686 *
US-PATENT-CLASS-250-492A .... c 33 N80-14332 *
US-PATENT-CLASS-250-492B .... c 25 N78-27226 *
US-PATENT-CLASS-250-492R .... c 25 N76-29379 *
US-PATENT-CLASS-250-492R .... c 28 N78-24365 *
US-PATENT-CLASS-250-492 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-492 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-493.1 .... c 35 N91-14588 *
US-PATENT-CLASS-250-493 ..... c 73 N75-30876 *
US-PATENT-CLASS-250-495 ..... c 74 N75-12732 *
US-PATENT-CLASS-250-496 ..... c 73 N75-30876 *
US-PATENT-CLASS-250-498 ..... c 52 N77-14737 *
US-PATENT-CLASS-250-499 ..... c 73 N74-26767 *
US-PATENT-CLASS-250-499 ..... c 72 N76-15860 *
US-PATENT-CLASS-250-499 ..... c 37 N78-13436 *
US-PATENT-CLASS-250-500 ..... c 72 N76-15860 *
US-PATENT-CLASS-250-505 ..... c 74 N74-27866 *
US-PATENT-CLASS-250-505 ..... c 35 N75-19616 *
US-PATENT-CLASS-250-508 ..... c 35 N75-19616 *
US-PATENT-CLASS-250-51.5 ..... c 23 N73-13662 *
US-PATENT-CLASS-250-51.5 ..... c 14 N73-28491 *
US-PATENT-CLASS-250-510 ..... c 35 N75-19616 *
US-PATENT-CLASS-250-511 ..... c 74 N74-27866 *
US-PATENT-CLASS-250-513 ..... c 35 N80-28686 *
US-PATENT-CLASS-250-518 ..... c 14 N73-30392 *
US-PATENT-CLASS-250-51 ..... c 24 N72-11595 *
US-PATENT-CLASS-250-527 ..... c 37 N76-18458 *
US-PATENT-CLASS-250-527 ..... c 25 N77-32255 *
US-PATENT-CLASS-250-527 ..... c 44 N77-32580 *
US-PATENT-CLASS-250-527 ..... c 44 N79-11470 *
US-PATENT-CLASS-250-527 ..... c 44 N82-16475 *
US-PATENT-CLASS-250-528 ..... c 25 N78-25148 *
US-PATENT-CLASS-250-52 ..... c 15 N71-15606 *
US-PATENT-CLASS-250-52 ..... c 11 N71-23042 *
US-PATENT-CLASS-250-52 ..... c 24 N72-11595 *
US-PATENT-CLASS-250-52 ..... c 23 N73-13662 *
US-PATENT-CLASS-250-531 ..... c 25 N78-25148 *
US-PATENT-CLASS-250-531 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-540 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-541 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-551 ..... c 74 N79-34011 *
US-PATENT-CLASS-250-563 ..... c 38 N78-17396 *
US-PATENT-CLASS-250-566 ..... c 74 N75-25706 *
US-PATENT-CLASS-250-571 ..... c 36 N78-14380 *
US-PATENT-CLASS-250-572 ..... c 38 N78-17395 *
US-PATENT-CLASS-250-572 ..... c 38 N78-17396 *
US-PATENT-CLASS-250-573 ..... c 74 N76-20958 *
US-PATENT-CLASS-250-573 ..... c 34 N83-31993 *
US-PATENT-CLASS-250-574 ..... c 45 N76-21742 *
US-PATENT-CLASS-250-574 ..... c 36 N77-25501 *
US-PATENT-CLASS-250-576 ..... c 35 N74-27860 *
US-PATENT-CLASS-250-578 ..... c 36 N75-19652 *
US-PATENT-CLASS-250-65F ..... c 15 N72-25452 *
US-PATENT-CLASS-250-65R ..... c 14 N73-30389 *
US-PATENT-CLASS-250-71.5R ... c 14 N72-29464 *
US-PATENT-CLASS-250-71.5 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-71R ..... c 06 N73-16106 *
US-PATENT-CLASS-250-71 ..... c 14 N70-41676 *
US-PATENT-CLASS-250-83.3H ... c 14 N72-21408 *
US-PATENT-CLASS-250-83.3H ... c 14 N72-24477 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-12445 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-20475 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-25462 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-12445 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-20477 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-32317 *
US-PATENT-CLASS-250-83.3UV . c 10 N72-17173 *
US-PATENT-CLASS-250-83.3UV . c 14 N72-25409 *
US-PATENT-CLASS-250-83.3UV . c 06 N73-16106 *
US-PATENT-CLASS-250-83.3 ..... c 21 N70-33181 *
US-PATENT-CLASS-250-83.3 ..... c 21 N70-34297 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-15599 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-18699 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-21088 *
US-PATENT-CLASS-250-83.3 ..... c 09 N71-22985 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-25901 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-26475 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-27323 *
US-PATENT-CLASS-250-83.3 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-83.3 ..... c 35 N75-27329 *
US-PATENT-CLASS-250-83.6R ... c 14 N71-27090 *
US-PATENT-CLASS-250-83.6R ... c 14 N72-20381 *
US-PATENT-CLASS-250-83.6R ... c 25 N72-33696 *
US-PATENT-CLASS-250-83.6R ... c 74 N81-19898 *
US-PATENT-CLASS-250-83.6 ..... c 10 N70-41991 *
US-PATENT-CLASS-250-83CD .... c 91 N74-13130 *
US-PATENT-CLASS-250-83R ..... c 14 N73-12445 *
US-PATENT-CLASS-250-83R ..... c 14 N73-20477 *
US-PATENT-CLASS-250-83 ..... c 14 N69-27484 * #
US-PATENT-CLASS-250-83 ..... c 14 N69-39937 * #
US-PATENT-CLASS-250-83 ..... c 09 N71-18830 *
US-PATENT-CLASS-250-83 ..... c 05 N71-19440 *
US-PATENT-CLASS-250-83 ..... c 14 N71-20430 *
US-PATENT-CLASS-250-83 ..... c 14 N71-23401 *
US-PATENT-CLASS-250-83 ..... c 09 N71-27232 *
US-PATENT-CLASS-250-84 ..... c 14 N71-24809 *
US-PATENT-CLASS-251-118 ..... c 15 N71-18580 *
US-PATENT-CLASS-251-11 ..... c 15 N70-35407 *
US-PATENT-CLASS-251-120 ..... c 37 N74-21065 *
US-PATENT-CLASS-251-121 ..... c 15 N71-18580 *
US-PATENT-CLASS-251-122 ..... c 15 N73-13462 *
US-PATENT-CLASS-251-122 ..... c 37 N74-21065 *
US-PATENT-CLASS-251-127 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-127 ..... c 44 N84-14583 *
US-PATENT-CLASS-251-129.15 .. c 37 N87-25573 *
US-PATENT-CLASS-251-129.15 .. c 34 N91-27504 *
US-PATENT-CLASS-251-129 ..... c 15 N72-20442 *
US-PATENT-CLASS-251-138 ..... c 37 N80-23654 *
US-PATENT-CLASS-251-148 ..... c 15 N71-23024 *
US-PATENT-CLASS-251-148 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-149.6 .... c 37 N76-14463 *
US-PATENT-CLASS-251-149.9 .... c 37 N79-11402 *
US-PATENT-CLASS-251-160 ..... c 37 N91-14609 *
US-PATENT-CLASS-251-163 ..... c 37 N91-14609 *
US-PATENT-CLASS-251-165 ..... c 37 N87-21332 *
US-PATENT-CLASS-251-172 ..... c 15 N71-21234 *

US-PATENT-CLASS-251-172 ..... c 37 N79-33469 *
US-PATENT-CLASS-251-173 ..... c 15 N70-33376 *
US-PATENT-CLASS-251-175 ..... c 37 N87-25573 *
US-PATENT-CLASS-251-205 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-210 ..... c 37 N74-21065 *
US-PATENT-CLASS-251-212 ..... c 34 N91-14563 *
US-PATENT-CLASS-251-216 ..... c 37 N81-17433 *
US-PATENT-CLASS-251-265 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-267 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-284 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-297 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-31 ..... c 15 N71-19485 *
US-PATENT-CLASS-251-325 ..... c 37 N85-29284 *
US-PATENT-CLASS-251-326 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-331 ..... c 15 N72-31483 *
US-PATENT-CLASS-251-333 ..... c 15 N70-34859 *
US-PATENT-CLASS-251-333 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-333 ..... c 15 N72-20442 *
US-PATENT-CLASS-251-333 ..... c 37 N75-25185 *
US-PATENT-CLASS-251-339 ..... c 37 N81-17433 *
US-PATENT-CLASS-251-342 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-349 ..... c 37 N85-29284 *
US-PATENT-CLASS-251-353 ..... c 37 N85-29284 *
US-PATENT-CLASS-251-358 ..... c 15 N71-17648 *
US-PATENT-CLASS-251-360 ..... c 15 N72-25451 *
US-PATENT-CLASS-251-363 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-61.1 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-61 ..... c 15 N71-10778 *
US-PATENT-CLASS-251-7 ..... c 37 N79-28550 *
US-PATENT-CLASS-251-86 ..... c 15 N72-31483 *
US-PATENT-CLASS-251-86 ..... c 37 N80-23654 *
US-PATENT-CLASS-252-DIG.13 . c 54 N92-29137 *
US-PATENT-CLASS-252-DIG.14 . c 54 N92-29137 *
US-PATENT-CLASS-252-DIG.5 .... c 54 N92-29137 *
US-PATENT-CLASS-252-12.2 ..... c 24 N79-17916 *
US-PATENT-CLASS-252-12 ..... c 15 N71-23810 *
US-PATENT-CLASS-252-12 ..... c 24 N76-22309 *
US-PATENT-CLASS-252-182.1 .... c 33 N84-14422 *
US-PATENT-CLASS-252-26 ..... c 15 N71-21403 *
US-PATENT-CLASS-252-26 ..... c 15 N71-24046 *
US-PATENT-CLASS-252-2 ..... c 25 N83-36118 *
US-PATENT-CLASS-252-300 ..... c 14 N72-22443 *
US-PATENT-CLASS-252-300 ..... c 24 N76-24363 *
US-PATENT-CLASS-252-301.1R . c 35 N79-10389 *
US-PATENT-CLASS-252-301.16 .. c 35 N79-10389 *
US-PATENT-CLASS-252-301.2 .... c 18 N71-27170 *
US-PATENT-CLASS-252-301.4 .... c 06 N73-30097 *
US-PATENT-CLASS-252-305 ..... c 06 N73-30097 *
US-PATENT-CLASS-252-359A .... c 37 N77-13418 *
US-PATENT-CLASS-252-361 ..... c 71 N83-35781 *
US-PATENT-CLASS-252-364 ..... c 28 N81-15119 *
US-PATENT-CLASS-252-373 ..... c 44 N76-29704 *
US-PATENT-CLASS-252-373 ..... c 44 N77-10636 *
US-PATENT-CLASS-252-408 ..... c 14 N73-14428 *
US-PATENT-CLASS-252-422 ..... c 45 N82-11634 *
US-PATENT-CLASS-252-431N .... c 06 N73-32029 *
US-PATENT-CLASS-252-431R .... c 06 N73-32029 *
US-PATENT-CLASS-252-472 ..... c 25 N78-10225 *
US-PATENT-CLASS-252-500 ..... c 27 N92-16121 *
US-PATENT-CLASS-252-502 ..... c 27 N92-10090 *
US-PATENT-CLASS-252-502 ..... c 24 N92-16025 *
US-PATENT-CLASS-252-510 ..... c 24 N91-15320 *
US-PATENT-CLASS-252-514 ..... c 05 N72-25120 *
US-PATENT-CLASS-252-514 ..... c 44 N79-31752 *
US-PATENT-CLASS-252-514 ..... c 25 N82-26396 *
US-PATENT-CLASS-252-518 ..... c 24 N79-14156 *
US-PATENT-CLASS-252-518 ..... c 27 N92-16121 *
US-PATENT-CLASS-252-545 ..... c 54 N92-29137 *
US-PATENT-CLASS-252-547 ..... c 54 N92-29137 *
US-PATENT-CLASS-252-549 ..... c 23 N75-14834 *
US-PATENT-CLASS-252-58 ..... c 18 N70-39897 *
US-PATENT-CLASS-252-5 ..... c 25 N83-33977 *
US-PATENT-CLASS-252-5 ..... c 25 N83-36118 *
US-PATENT-CLASS-252-62.2 ..... c 33 N91-14536 *
US-PATENT-CLASS-252-62.2 ..... c 33 N92-28753 *
US-PATENT-CLASS-252-62.3E .... c 44 N80-24741 *
US-PATENT-CLASS-252-62.3E .... c 44 N81-19558 *
US-PATENT-CLASS-252-62.3GA .. c 25 N75-26043 *
US-PATENT-CLASS-252-62.3 ..... c 26 N71-23292 *
US-PATENT-CLASS-252-62.3 ..... c 76 N76-25049 *
US-PATENT-CLASS-252-62 ..... c 27 N74-27037 *
US-PATENT-CLASS-252-70 ..... c 23 N75-14834 *
US-PATENT-CLASS-252-79.2 ..... c 25 N92-25399 * #
US-PATENT-CLASS-252-79.4 ..... c 25 N92-25399 * #
US-PATENT-CLASS-252-8.1 ..... c 18 N73-26572 *
US-PATENT-CLASS-252-8.1 ..... c 27 N74-27037 *
US-PATENT-CLASS-252-8.1 ..... c 24 N78-14096 *
US-PATENT-CLASS-253-317 ..... c 44 N77-22606 *
US-PATENT-CLASS-253-39.15 .... c 15 N70-33226 *
US-PATENT-CLASS-253-39.15 .... c 15 N70-33264 *
US-PATENT-CLASS-253-39.15 .... c 28 N70-33372 *
US-PATENT-CLASS-253-39.1 ..... c 33 N71-29152 *
US-PATENT-CLASS-253-66 ..... c 15 N70-36412 *
US-PATENT-CLASS-253-66 ..... c 28 N70-39895 *
US-PATENT-CLASS-253-77 ..... c 28 N71-28928 *
US-PATENT-CLASS-253-77 ..... c 28 N71-29154 *
US-PATENT-CLASS-253 ..... c 25 N79-28253 *
US-PATENT-CLASS-254-101 ..... c 37 N91-21543 *
US-PATENT-CLASS-254-124 ..... c 20 N76-22296 *
US-PATENT-CLASS-254-131 ..... c 60 N82-24839 *
US-PATENT-CLASS-254-150 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-156 ..... c 15 N73-25512 *
US-PATENT-CLASS-254-158 ..... c 54 N77-21844 *
US-PATENT-CLASS-254-173 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-186 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-190 ..... c 15 N72-25453 *
US-PATENT-CLASS-254-29A ..... c 15 N73-30457 *
US-PATENT-CLASS-254-93-H ..... c 35 N88-24927 *
US-PATENT-CLASS-254-93-R ..... c 35 N88-24927 *
US-PATENT-CLASS-254-93R ..... c 35 N74-13129 *
US-PATENT-CLASS-254-93R ..... c 20 N76-22296 *
US-PATENT-CLASS-256-13.1 ..... c 37 N79-10420 *
US-PATENT-CLASS-256-1 ..... c 37 N79-10420 *
US-PATENT-CLASS-256-308.2 .... c 27 N86-20561 *
US-PATENT-CLASS-256-59 ..... c 37 N92-29092 *
US-PATENT-CLASS-257-17 ..... c 35 N93-19387 *
US-PATENT-CLASS-257-21 ..... c 35 N93-19387 *
US-PATENT-CLASS-257-23 ..... c 35 N93-19387 *
US-PATENT-CLASS-259-DIG.18 . c 35 N74-15093 *
US-PATENT-CLASS-259-4AC ..... c 37 N76-19436 *
US-PATENT-CLASS-259-4 ..... c 15 N73-19458 *
US-PATENT-CLASS-259-60 ..... c 35 N74-15093 *
US-PATENT-CLASS-259-71 ..... c 15 N71-21177 *
US-PATENT-CLASS-259-72 ..... c 37 N74-18123 *
US-PATENT-CLASS-259-98 ..... c 35 N74-15126 *
US-PATENT-CLASS-259/4R ..... c 34 N77-24423 *
US-PATENT-CLASS-260.46.5E .... c 27 N74-21156 *
US-PATENT-CLASS-260-DIG.15 . c 27 N78-14164 *
US-PATENT-CLASS-260-DIG.24 . c 27 N74-27037 *
US-PATENT-CLASS-260-DIG.24 . c 27 N76-24405 *
US-PATENT-CLASS-260-DIG.29 . c 27 N80-24438 *
US-PATENT-CLASS-260-17.2 ..... c 24 N80-26388 *
US-PATENT-CLASS-260-17.2 ..... c 24 N81-13999 *
US-PATENT-CLASS-260-17.4UC . c 23 N81-29160 *
US-PATENT-CLASS-260-17A ..... c 27 N81-14076 *
US-PATENT-CLASS-260-18S ..... c 06 N72-25151 *
US-PATENT-CLASS-260-2.1E ..... c 18 N72-22567 *
US-PATENT-CLASS-260-2.1E ..... c 27 N81-14076 *
US-PATENT-CLASS-260-2.1E ..... c 25 N81-19244 *
US-PATENT-CLASS-260-2.1 ..... c 25 N81-17187 *
US-PATENT-CLASS-260-2.2R ..... c 25 N81-17187 *
US-PATENT-CLASS-260-2.2R ..... c 25 N81-19244 *
US-PATENT-CLASS-260-2.5AK ... c 27 N76-15310 *
US-PATENT-CLASS-260-2.5AK ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5AM .. c 27 N74-12812 *
US-PATENT-CLASS-260-2.5AM .. c 27 N77-31308 *
US-PATENT-CLASS-260-2.5AP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5AY ... c 27 N77-31308 *
US-PATENT-CLASS-260-2.5A ..... c 27 N77-31308 *
US-PATENT-CLASS-260-2.5BE .... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5B ..... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5EP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5FP ... c 06 N72-25147 *
US-PATENT-CLASS-260-2.5FP ... c 27 N74-27037 *
US-PATENT-CLASS-260-2.5FP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5F ..... c 18 N73-13562 *
US-PATENT-CLASS-260-2.5L ..... c 27 N74-12814 *
US-PATENT-CLASS-260-2.5N ..... c 24 N78-15180 *
US-PATENT-CLASS-260-2.5N ..... c 27 N78-31232 *
US-PATENT-CLASS-260-2.5R ..... c 27 N74-27037 *
US-PATENT-CLASS-260-2.5R ..... c 24 N78-15180 *
US-PATENT-CLASS-260-2.5 ..... c 06 N71-11242 *
US-PATENT-CLASS-260-2.5 ..... c 06 N71-24739 *
US-PATENT-CLASS-260-2.5 ..... c 06 N71-25929 *
US-PATENT-CLASS-260-2.5 ..... c 18 N71-26155 *
US-PATENT-CLASS-260-2.5 ..... c 06 N72-25150 *
US-PATENT-CLASS-260-2P ..... c 27 N78-32256 *
US-PATENT-CLASS-260-2R ..... c 37 N74-18126 *
US-PATENT-CLASS-260-2R ..... c 27 N74-27037 *
US-PATENT-CLASS-260-2R ..... c 27 N78-15276 *
US-PATENT-CLASS-260-211.5 .... c 06 N72-25149 *
US-PATENT-CLASS-260-240G .... c 27 N76-32315 *
US-PATENT-CLASS-260-245.75 .. c 27 N86-19455 *
US-PATENT-CLASS-260-245.9 .... c 27 N86-19455 *
US-PATENT-CLASS-260-28.5 ..... c 27 N78-33228 *
US-PATENT-CLASS-260-29.1R ... c 24 N78-24290 *
US-PATENT-CLASS-260-29.6RB . c 25 N81-19242 *
US-PATENT-CLASS-260-29.6S .... c 27 N74-17283 *
US-PATENT-CLASS-260-29.6 ..... c 26 N75-27125 *
US-PATENT-CLASS-260-2 ..... c 06 N71-11243 *
US-PATENT-CLASS-260-2 ..... c 06 N71-20717 *
US-PATENT-CLASS-260-2 ..... c 06 N71-20905 *
US-PATENT-CLASS-260-2 ..... c 06 N71-27363 *
US-PATENT-CLASS-260-2 ..... c 06 N73-30102 *
US-PATENT-CLASS-260-2 ..... c 27 N79-21190 *
US-PATENT-CLASS-260-30.2 ..... c 06 N73-27980 *
US-PATENT-CLASS-260-30.4N ... c 27 N78-17205 *
US-PATENT-CLASS-260-30.8DS . c 06 N73-27980 *
US-PATENT-CLASS-260-307G .... c 27 N79-22300 *
US-PATENT-CLASS-260-32.2R ... c 27 N78-17205 *
US-PATENT-CLASS-260-32.6NT . c 27 N78-17205 *
US-PATENT-CLASS-260-32.6N ... c 06 N73-27980 *
US-PATENT-CLASS-260-32.6N ... c 23 N76-15268 *
US-PATENT-CLASS-260-32.8N ... c 23 N76-15268 *
US-PATENT-CLASS-260-326N .... c 27 N81-17260 *
US-PATENT-CLASS-260-326S ..... c 27 N81-17260 *
US-PATENT-CLASS-260-33.4R ... c 06 N73-27980 *
US-PATENT-CLASS-260-33.4R ... c 27 N78-17205 *
US-PATENT-CLASS-260-33.4R ... c 27 N81-19296 *
US-PATENT-CLASS-260-33.6EP . c 24 N78-27180 *
US-PATENT-CLASS-260-33.6PQ . c 24 N78-27180 *
US-PATENT-CLASS-260-33.6R ... c 06 N73-27980 *
US-PATENT-CLASS-260-33.6UB . c 27 N81-15104 *
US-PATENT-CLASS-260-33.8EP . c 24 N78-27180 *
US-PATENT-CLASS-260-33.8F .... c 27 N76-24405 *
US-PATENT-CLASS-260-33.8F .... c 25 N81-14016 *
US-PATENT-CLASS-260-33.8UA . c 24 N78-27180 *
US-PATENT-CLASS-260-340.9R . c 23 N82-16174 *
US-PATENT-CLASS-260-346.3 .... c 23 N75-30256 *
US-PATENT-CLASS-260-346.3 .... c 23 N76-15268 *
US-PATENT-CLASS-260-346.3 .... c 27 N80-32515 *
US-PATENT-CLASS-260-348SC .. c 06 N72-25148 *
US-PATENT-CLASS-260-37EP .... c 24 N78-24290 *
US-PATENT-CLASS-260-37EP .... c 24 N78-27180 *
US-PATENT-CLASS-260-37EP .... c 15 N79-26100 *
US-PATENT-CLASS-260-37EP .... c 27 N81-17260 *
US-PATENT-CLASS-260-37N ..... c 27 N79-28307 *
US-PATENT-CLASS-260-37 ..... c 18 N71-25881 *
US-PATENT-CLASS-260-37 ..... c 27 N81-24258 *
US-PATENT-CLASS-260-386 ..... c 25 N82-24312 *
US-PATENT-CLASS-260-386 ..... c 23 N88-26404 *
US-PATENT-CLASS-260-386 ..... c 25 N90-23497 *
US-PATENT-CLASS-260-389 ..... c 25 N82-24312 *
US-PATENT-CLASS-260-389 ..... c 23 N88-26404 *
US-PATENT-CLASS-260-395 ..... c 23 N88-26404 *
US-PATENT-CLASS-260-395 ..... c 25 N90-23497 *
US-PATENT-CLASS-260-396N .... c 27 N74-27037 *
US-PATENT-CLASS-260-404.5 .... c 18 N71-15688 *
US-PATENT-CLASS-260-42.17 .... c 27 N78-17215 *
US-PATENT-CLASS-260-42.43 .... c 24 N78-27180 *
US-PATENT-CLASS-260-429 ..... c 06 N71-28808 *
US-PATENT-CLASS-260-42 ..... c 27 N79-28307 *
US-PATENT-CLASS-260-448.2D . c 06 N72-25151 *
US-PATENT-CLASS-260-448.2D . c 06 N73-32030 *
US-PATENT-CLASS-260-448.2N . c 37 N74-21058 *
US-PATENT-CLASS-260-448.2 .... c 06 N71-23230 *
US-PATENT-CLASS-260-45.7R ... c 24 N78-27180 *
US-PATENT-CLASS-260-45.7R ... c 27 N82-16238 *
US-PATENT-CLASS-260-45.75W . c 24 N78-27180 *
US-PATENT-CLASS-260-45.7 ..... c 27 N76-24405 *
US-PATENT-CLASS-260-45.85N . c 24 N78-27180 *
US-PATENT-CLASS-260-45.9R ... c 24 N78-27180 *
US-PATENT-CLASS-260-46.5E .... c 06 N72-25151 *
US-PATENT-CLASS-260-46.5G .... c 06 N72-25151 *
US-PATENT-CLASS-260-46.5P .... c 06 N72-25151 *
US-PATENT-CLASS-260-46.5R .... c 06 N73-26100 *
US-PATENT-CLASS-260-46.5 ..... c 06 N71-11237 *
US-PATENT-CLASS-260-46.5 ..... c 06 N71-11240 *
US-PATENT-CLASS-260-465.5R . c 27 N81-24256 *
US-PATENT-CLASS-260-465.5R . c 27 N84-22744 *
US-PATENT-CLASS-260-465.6 .... c 27 N84-22744 *
US-PATENT-CLASS-260-47CP .... c 06 N73-27980 *
US-PATENT-CLASS-260-47CP .... c 23 N76-15268 *
US-PATENT-CLASS-260-47CP .... c 27 N78-31232 *
US-PATENT-CLASS-260-47CP .... c 27 N78-32261 *
US-PATENT-CLASS-260-47UP .... c 06 N73-32029 *
US-PATENT-CLASS-260-47 ..... c 06 N71-28620 *
US-PATENT-CLASS-260-47 ..... c 06 N71-28807 *
US-PATENT-CLASS-260-485F .... c 06 N73-30098 *
US-PATENT-CLASS-260-49 ..... c 27 N78-32261 *
US-PATENT-CLASS-260-520 ..... c 23 N75-30256 *
US-PATENT-CLASS-260-535H .... c 06 N72-27144 *
US-PATENT-CLASS-260-53 ..... c 27 N79-28307 *
US-PATENT-CLASS-260-544-D ... c 27 N86-21675 *
US-PATENT-CLASS-260-544-P ... c 27 N87-14515 *
US-PATENT-CLASS-260-544F .... c 06 N72-20121 *
US-PATENT-CLASS-260-544P .... c 27 N86-27450 *
US-PATENT-CLASS-260-551P .... c 27 N78-32256 *
US-PATENT-CLASS-260-566B .... c 27 N76-32315 *
US-PATENT-CLASS-260-567.6M . c 06 N73-32029 *
US-PATENT-CLASS-260-571 ..... c 23 N76-15268 *
US-PATENT-CLASS-260-606-5P . c 27 N78-32256 *
US-PATENT-CLASS-260-615 ..... c 06 N71-27254 *
US-PATENT-CLASS-260-615 ..... c 06 N73-30101 *
US-PATENT-CLASS-260-63N ..... c 27 N78-31232 *
US-PATENT-CLASS-260-63N ..... c 27 N78-32261 *
US-PATENT-CLASS-260-63R ..... c 27 N78-32261 *
US-PATENT-CLASS-260-65 ..... c 06 N73-27980 *
US-PATENT-CLASS-260-65 ..... c 27 N78-32261 *
US-PATENT-CLASS-260-65 ..... c 23 N82-29358 *
US-PATENT-CLASS-260-67 ..... c 27 N78-17214 *
US-PATENT-CLASS-260-67 ..... c 27 N79-21191 *
US-PATENT-CLASS-260-72.5 ..... c 06 N71-11236 *
US-PATENT-CLASS-260-72.5 ..... c 06 N71-11239 *
US-PATENT-CLASS-260-72.5 ..... c 06 N71-24740 *
US-PATENT-CLASS-260-75NH .... c 27 N78-17213 *
US-PATENT-CLASS-260-75NK .... c 27 N78-17213 *
US-PATENT-CLASS-260-75NT .... c 27 N78-17213 *

US-PATENT-CLASS-260-77.5AM c 27 N78-17213 *
US-PATENT-CLASS-260-77.5AN . c 27 N78-17213 *
US-PATENT-CLASS-260-77.5AP . c 06 N72-27144 *
US-PATENT-CLASS-260-77.5AP . c 06 N73-33076 *
US-PATENT-CLASS-260-77.5AP . c 27 N77-31308 *
US-PATENT-CLASS-260-77.5AP . c 27 N78-17213 *
US-PATENT-CLASS-260-77.5AT . c 27 N78-17213 *
US-PATENT-CLASS-260-77.5SP . c 27 N78-17213 *
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30099 *
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30100 *
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30103 *
US-PATENT-CLASS-260-78.41 .... c 27 N78-31232 *
US-PATENT-CLASS-260-78TF .... c 06 N73-27980 *
US-PATENT-CLASS-260-78TF .... c 27 N74-23125 *
US-PATENT-CLASS-260-78TF .... c 23 N75-30256 *
US-PATENT-CLASS-260-78TF .... c 23 N76-15268 *
US-PATENT-CLASS-260-78TF .... c 27 N78-32261 *
US-PATENT-CLASS-260-78UA .... c 06 N73-27980 *
US-PATENT-CLASS-260-78 ..... c 06 N71-11235 *
US-PATENT-CLASS-260-78 ..... c 06 N71-11238 *
US-PATENT-CLASS-260-830S ..... c 15 N79-26100 *
US-PATENT-CLASS-260-85.5 ..... c 06 N71-23500 *
US-PATENT-CLASS-260-858 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-877 ..... c 06 N72-22107 *
US-PATENT-CLASS-260-879 ..... c 27 N76-16228 *
US-PATENT-CLASS-260-886 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-8900 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-895 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-898 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-900 ..... c 27 N76-16228 *
US-PATENT-CLASS-260-901 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-92.1 ..... c 06 N72-25150 *
US-PATENT-CLASS-260-92.1 ..... c 06 N72-25152 *
US-PATENT-CLASS-260-92.1 ..... c 27 N76-16228 *
US-PATENT-CLASS-260-92.1 ..... c 27 N76-24405 *
US-PATENT-CLASS-260-926 ..... c 27 N80-10358 *
US-PATENT-CLASS-260-927-N ... c 23 N86-19376 *
US-PATENT-CLASS-260-93.5A ... c 06 N73-32029 *
US-PATENT-CLASS-260-93.5S .... c 06 N73-32029 *
US-PATENT-CLASS-260-94.2M ... c 06 N73-32029 *
US-PATENT-CLASS-260-94.2R ... c 06 N73-32029 *
US-PATENT-CLASS-260-94.7R ... c 06 N73-32029 *
US-PATENT-CLASS-260-94.8 ..... c 27 N73-22710 *
US-PATENT-CLASS-260-959 ..... c 27 N78-32256 *
US-PATENT-CLASS-260-96D ..... c 28 N81-15119 *
US-PATENT-CLASS-261-DIG.75 . c 34 N77-24423 *
US-PATENT-CLASS-261-118 ..... c 31 N80-18231 *
US-PATENT-CLASS-261-123 ..... c 34 N77-24423 *
US-PATENT-CLASS-261-145 ..... c 28 N72-22772 *
US-PATENT-CLASS-261-28 ..... c 07 N81-29129 *
US-PATENT-CLASS-261-78A ..... c 35 N86-29174 *
US-PATENT-CLASS-261-79A ..... c 54 N81-24724 *
US-PATENT-CLASS-261-83 ..... c 51 N91-30667 *
US-PATENT-CLASS-263-48 ..... c 15 N69-27483 * #
US-PATENT-CLASS-264-DIG.36 . c 18 N73-14584 *
US-PATENT-CLASS-264-DIG.44 . c 15 N72-16329 *
US-PATENT-CLASS-264-DIG.64 . c 27 N88-23894 *
US-PATENT-CLASS-264-DIG.65 . c 27 N85-20124 *
US-PATENT-CLASS-264-DIG-59 . c 27 N89-29539 *
US-PATENT-CLASS-264-022 ..... c 27 N90-21198 *
US-PATENT-CLASS-264-102 ..... c 15 N71-10672 *
US-PATENT-CLASS-264-102 ..... c 15 N73-12489 *
US-PATENT-CLASS-264-102 ..... c 31 N74-14133 *
US-PATENT-CLASS-264-102 ..... c 31 N74-18124 *
US-PATENT-CLASS-264-102 ..... c 37 N76-24575 *
US-PATENT-CLASS-264-102 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-104 ..... c 05 N72-25120 *
US-PATENT-CLASS-264-104 ..... c 27 N81-24257 *
US-PATENT-CLASS-264-104 ..... c 23 N81-29160 *
US-PATENT-CLASS-264-104 ..... c 25 N83-13188 *
US-PATENT-CLASS-264-105 ..... c 27 N81-24257 *
US-PATENT-CLASS-264-111 ..... c 17 N71-29137 *
US-PATENT-CLASS-264-112 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-114 ..... c 31 N90-19425 *
US-PATENT-CLASS-264-118 ..... c 24 N80-26388 *
US-PATENT-CLASS-264-118 ..... c 24 N84-16262 *
US-PATENT-CLASS-264-119 ..... c 24 N80-26388 *
US-PATENT-CLASS-264-11 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-120 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-124 ..... c 24 N80-26388 *
US-PATENT-CLASS-264-129 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-12 ..... c 31 N83-35176 *
US-PATENT-CLASS-264-12 ..... c 31 N91-32240 *
US-PATENT-CLASS-264-130 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-135 ..... c 37 N74-18126 *
US-PATENT-CLASS-264-136 ..... c 37 N74-18126 *
US-PATENT-CLASS-264-136 ..... c 24 N91-25200 *
US-PATENT-CLASS-264-137 ..... c 27 N79-33316 *
US-PATENT-CLASS-264-137 ..... c 27 N81-14078 *
US-PATENT-CLASS-264-137 ..... c 27 N81-29229 *
US-PATENT-CLASS-264-137 ..... c 27 N83-34041 *
US-PATENT-CLASS-264-137 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-145 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-151 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-152 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-157 ..... c 24 N78-17150 *

US-PATENT-CLASS-264-161 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-175 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-184 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-184 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-1 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-204 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-211.15 .. c 37 N91-27562 *
US-PATENT-CLASS-264-211.16 .. c 37 N91-27562 *
US-PATENT-CLASS-264-211.17 .. c 37 N91-27562 *
US-PATENT-CLASS-264-211 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-212 ..... c 27 N80-32516 *
US-PATENT-CLASS-264-212 ..... c 27 N86-31727 *
US-PATENT-CLASS-264-216 ..... c 25 N82-21268 *
US-PATENT-CLASS-264-216 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-217 ..... c 25 N75-12087 *
US-PATENT-CLASS-264-219 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-220 ..... c 27 N82-28440 *
US-PATENT-CLASS-264-221 ..... c 15 N72-16329 *
US-PATENT-CLASS-264-225 ..... c 15 N72-16329 *
US-PATENT-CLASS-264-227 ..... c 15 N72-16329 *
US-PATENT-CLASS-264-229 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-22 ..... c 15 N72-20446 *
US-PATENT-CLASS-264-22 ..... c 14 N72-22439 *
US-PATENT-CLASS-264-22 ..... c 25 N75-12087 *
US-PATENT-CLASS-264-22 ..... c 27 N80-32516 *
US-PATENT-CLASS-264-22 ..... c 27 N82-28440 *
US-PATENT-CLASS-264-230 ..... c 37 N82-24491 *
US-PATENT-CLASS-264-231 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-234 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-236 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-236 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-236 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-236 ..... c 27 N86-31727 *
US-PATENT-CLASS-264-236 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-236 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-23 ..... c 71 N78-10837 *
US-PATENT-CLASS-264-23 ..... c 31 N81-15154 *
US-PATENT-CLASS-264-24 ..... c 31 N81-33319 *
US-PATENT-CLASS-264-24 ..... c 31 N83-35176 *
US-PATENT-CLASS-264-257 ..... c 37 N74-18126 *
US-PATENT-CLASS-264-257 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-257 ..... c 24 N91-25199 *
US-PATENT-CLASS-264-257 ..... c 24 N91-25200 *
US-PATENT-CLASS-264-258 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-258 ..... c 27 N83-34041 *
US-PATENT-CLASS-264-258 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-259 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-261 ..... c 24 N91-25199 *
US-PATENT-CLASS-264-267 ..... c 37 N76-24575 *
US-PATENT-CLASS-264-27 ..... c 26 N71-17818 *
US-PATENT-CLASS-264-28 ..... c 15 N73-12489 *
US-PATENT-CLASS-264-28 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-291 ..... c 74 N87-28416 *
US-PATENT-CLASS-264-294 ..... c 31 N74-13177 *
US-PATENT-CLASS-264-3R ..... c 28 N77-10213 *
US-PATENT-CLASS-264-3R ..... c 20 N77-17143 *
US-PATENT-CLASS-264-304 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-305 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-308 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-310 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-311 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-311 ..... c 31 N90-19425 *
US-PATENT-CLASS-264-318 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-331.12 .. c 27 N85-20124 *
US-PATENT-CLASS-264-331.12 .. c 24 N91-25200 *
US-PATENT-CLASS-264-331.19 .. c 27 N85-20124 *
US-PATENT-CLASS-264-331.46 .. c 27 N83-34041 *
US-PATENT-CLASS-264-331 ..... c 27 N76-16230 *
US-PATENT-CLASS-264-332 ..... c 37 N81-25371 *
US-PATENT-CLASS-264-332 ..... c 27 N87-28656 *
US-PATENT-CLASS-264-334 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-33 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-342R .... c 37 N82-24491 *
US-PATENT-CLASS-264-345 ..... c 71 N78-10837 *
US-PATENT-CLASS-264-345 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-347 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-347 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-34 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-35 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-36 ..... c 15 N73-12489 *
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US-PATENT-CLASS-264-40.4 ..... c 35 N80-18357 *
US-PATENT-CLASS-264-40.5 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-40.6 ..... c 27 N89-29539 *
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US-PATENT-CLASS-264-41 ..... c 25 N81-19244 *
US-PATENT-CLASS-264-41 ..... c 51 N84-28361 *
US-PATENT-CLASS-264-43 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-453 ..... c 25 N82-21268 *
US-PATENT-CLASS-264-4 ..... c 34 N90-23700 *
US-PATENT-CLASS-264-50 ..... c 27 N88-23894 *
US-PATENT-CLASS-264-510 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-516 ..... c 44 N79-24432 *

US-PATENT-CLASS-264-53 ..... c 25 N82-21268 *
US-PATENT-CLASS-264-59 ..... c 24 N84-16262 *
US-PATENT-CLASS-264-5 ..... c 31 N81-33319 *
US-PATENT-CLASS-264-5 ..... c 27 N82-28442 *
US-PATENT-CLASS-264-5 ..... c 31 N83-31896 *
US-PATENT-CLASS-264-5 ..... c 31 N83-35176 *
US-PATENT-CLASS-264-5 ..... c 26 N86-32551 *
US-PATENT-CLASS-264-5 ..... c 31 N91-32240 *
US-PATENT-CLASS-264-60 ..... c 27 N76-22376 *
US-PATENT-CLASS-264-60 ..... c 27 N79-14213 *
US-PATENT-CLASS-264-60 ..... c 24 N84-16262 *
US-PATENT-CLASS-264-60 ..... c 27 N87-28656 *
US-PATENT-CLASS-264-63 ..... c 27 N76-22376 *
US-PATENT-CLASS-264-63 ..... c 27 N87-28656 *
US-PATENT-CLASS-264-63 ..... c 27 N92-16122 *
US-PATENT-CLASS-264-65 ..... c 18 N73-14584 *
US-PATENT-CLASS-264-66 ..... c 27 N76-22376 *
US-PATENT-CLASS-264-6 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-70 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-71 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-90 ..... c 24 N78-17150 *
US-PATENT-CLASS-264-92 ..... c 15 N71-17803 *
US-PATENT-CLASS-264-92 ..... c 15 N72-24522 *
US-PATENT-CLASS-264-9 ..... c 31 N81-33319 *
US-PATENT-CLASS-264-9 ..... c 31 N83-31896 *
US-PATENT-CLASS-266-119 ..... c 26 N80-28492 *
US-PATENT-CLASS-266-19 ..... c 15 N70-33382 *
US-PATENT-CLASS-266-249 ..... c 26 N80-28492 *
US-PATENT-CLASS-266-24 ..... c 17 N72-28535 *
US-PATENT-CLASS-266-274 ..... c 26 N80-28492 *
US-PATENT-CLASS-267-150 ..... c 37 N85-34401 *
US-PATENT-CLASS-267-166 ..... c 34 N74-18552 *
US-PATENT-CLASS-267-1 ..... c 15 N69-27504 * #
US-PATENT-CLASS-267-1 ..... c 15 N70-38225 *
US-PATENT-CLASS-267-64 ..... c 15 N71-21530 *
US-PATENT-CLASS-267-8R ..... c 37 N85-34401 *
US-PATENT-CLASS-269-147 ..... c 35 N88-24927 *
US-PATENT-CLASS-269-152 ..... c 18 N83-29303 *
US-PATENT-CLASS-269-153 ..... c 44 N79-19447 *
US-PATENT-CLASS-269-156 ..... c 37 N80-14398 *
US-PATENT-CLASS-269-21 ..... c 37 N76-21554 *
US-PATENT-CLASS-269-21 ..... c 37 N78-17383 *
US-PATENT-CLASS-269-21 ..... c 37 N78-27423 *
US-PATENT-CLASS-269-21 ..... c 76 N80-18951 *
US-PATENT-CLASS-269-21 ..... c 37 N81-33482 *
US-PATENT-CLASS-269-21 ..... c 37 N91-21545 *
US-PATENT-CLASS-269-224 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-242 ..... c 18 N83-29303 *
US-PATENT-CLASS-269-242 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-244 ..... c 18 N83-29303 *
US-PATENT-CLASS-269-244 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-246 ..... c 35 N88-24927 *
US-PATENT-CLASS-269-252 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-266 ..... c 37 N78-27423 *
US-PATENT-CLASS-269-267 ..... c 37 N89-13785 *
US-PATENT-CLASS-269-270 ..... c 37 N93-17625 *
US-PATENT-CLASS-269-285 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-287 ..... c 37 N80-23655 *
US-PATENT-CLASS-269-3 ..... c 37 N84-12491 *
US-PATENT-CLASS-269-43 ..... c 37 N88-14360 *
US-PATENT-CLASS-269-48.1 ..... c 39 N74-13131 *
US-PATENT-CLASS-269-71 ..... c 37 N88-14360 *
US-PATENT-CLASS-269-73 ..... c 37 N88-14360 *
US-PATENT-CLASS-27-498 ..... c 15 N73-28515 *
US-PATENT-CLASS-272-DIG.1 .... c 05 N73-32014 *
US-PATENT-CLASS-272-DIG.4 .... c 05 N73-32014 *
US-PATENT-CLASS-272-DIG.5 .... c 05 N73-32014 *
US-PATENT-CLASS-272-1R ..... c 09 N75-15662 *
US-PATENT-CLASS-272-145 ..... c 54 N93-14713 *
US-PATENT-CLASS-272-57A ..... c 09 N75-15662 *
US-PATENT-CLASS-272-70 ..... c 05 N71-28619 *
US-PATENT-CLASS-272-73 ..... c 14 N73-27377 *
US-PATENT-CLASS-272-73 ..... c 05 N73-27941 *
US-PATENT-CLASS-272-73 ..... c 37 N74-18127 *
US-PATENT-CLASS-272-79C ..... c 05 N73-32014 *
US-PATENT-CLASS-272-80 ..... c 37 N74-18127 *
US-PATENT-CLASS-273-1E ..... c 05 N73-13114 *
US-PATENT-CLASS-273-148B .... c 33 N92-29153 *
US-PATENT-CLASS-273-240 ..... c 31 N83-34073 *
US-PATENT-CLASS-274-4R ..... c 09 N72-11224 *
US-PATENT-CLASS-277-105 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-116.6 .... c 37 N84-11497 *
US-PATENT-CLASS-277-124 ..... c 37 N84-11497 *
US-PATENT-CLASS-277-134 ..... c 37 N75-21631 *
US-PATENT-CLASS-277-134 ..... c 07 N78-25090 *
US-PATENT-CLASS-277-135 ..... c 37 N85-29284 *
US-PATENT-CLASS-277-13 ..... c 15 N71-26294 *
US-PATENT-CLASS-277-153 ..... c 37 N80-28711 *
US-PATENT-CLASS-277-153 ..... c 37 N81-26447 *
US-PATENT-CLASS-277-157 ..... c 37 N91-27560 *
US-PATENT-CLASS-277-158 ..... c 37 N90-23751 *
US-PATENT-CLASS-277-164 ..... c 37 N84-11497 *
US-PATENT-CLASS-277-177 ..... c 37 N84-11497 *
US-PATENT-CLASS-277-181 ..... c 37 N81-15363 *
US-PATENT-CLASS-277-189 ..... c 37 N82-16408 *
US-PATENT-CLASS-277-190 ..... c 37 N84-11497 *

US-PATENT-CLASS-277-192 ..... c 37 N79-22474 *
US-PATENT-CLASS-277-193 ..... c 37 N80-28711 *
US-PATENT-CLASS-277-193 ..... c 37 N81-26447 *
US-PATENT-CLASS-277-1 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-204 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-224 ..... c 37 N80-28711 *
US-PATENT-CLASS-277-226 ..... c 37 N91-27560 *
US-PATENT-CLASS-277-229 ..... c 37 N81-15363 *
US-PATENT-CLASS-277-229 ..... c 37 N91-27560 *
US-PATENT-CLASS-277-229 ..... c 37 N92-22043 *
US-PATENT-CLASS-277-234 ..... c 37 N92-22043 *
US-PATENT-CLASS-277-25 ..... c 15 N69-21362 * #
US-PATENT-CLASS-277-25 ..... c 15 N71-19570 *
US-PATENT-CLASS-277-25 ..... c 15 N72-29488 *
US-PATENT-CLASS-277-25 ..... c 37 N74-10474 *
US-PATENT-CLASS-277-25 ..... c 07 N78-25090 *
US-PATENT-CLASS-277-27 ..... c 15 N72-29488 *
US-PATENT-CLASS-277-27 ..... c 37 N74-10474 *
US-PATENT-CLASS-277-27 ..... c 37 N74-15125 *
US-PATENT-CLASS-277-27 ..... c 37 N75-21631 *
US-PATENT-CLASS-277-27 ..... c 37 N82-12442 *
US-PATENT-CLASS-277-27 ..... c 37 N92-16318 *
US-PATENT-CLASS-277-2 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-34.3 ..... c 37 N92-21727 *
US-PATENT-CLASS-277-34 ..... c 37 N90-23751 *
US-PATENT-CLASS-277-34 ..... c 37 N91-27560 *
US-PATENT-CLASS-277-34 ..... c 37 N92-21727 *
US-PATENT-CLASS-277-34 ..... c 37 N92-22043 *
US-PATENT-CLASS-277-3 ..... c 37 N92-21727 *
US-PATENT-CLASS-277-3 ..... c 37 N92-22043 *
US-PATENT-CLASS-277-40 ..... c 37 N75-21631 *
US-PATENT-CLASS-277-40 ..... c 37 N82-12442 *
US-PATENT-CLASS-277-41 ..... c 37 N76-22541 *
US-PATENT-CLASS-277-4 ..... c 37 N76-22541 *
US-PATENT-CLASS-277-4 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-53 ..... c 37 N86-20788 *
US-PATENT-CLASS-277-53 ..... c 37 N92-16318 *
US-PATENT-CLASS-277-59 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-62 ..... c 37 N79-22475 *
US-PATENT-CLASS-277-72R ..... c 37 N82-24490 *
US-PATENT-CLASS-277-74 ..... c 15 N72-29488 *
US-PATENT-CLASS-277-74 ..... c 37 N76-22541 *
US-PATENT-CLASS-277-76 ..... c 37 N92-22043 *
US-PATENT-CLASS-277-80 ..... c 37 N85-29284 *
US-PATENT-CLASS-277-81R ..... c 37 N82-16408 *
US-PATENT-CLASS-277-91 ..... c 37 N74-15125 *
US-PATENT-CLASS-277-93R ..... c 37 N76-22541 *
US-PATENT-CLASS-277-93R ..... c 37 N82-12442 *
US-PATENT-CLASS-277-96.1 ..... c 37 N79-22475 *
US-PATENT-CLASS-277-96 ..... c 37 N74-10474 *
US-PATENT-CLASS-277-96 ..... c 37 N81-24442 *
US-PATENT-CLASS-279-1B ..... c 37 N75-33395 *
US-PATENT-CLASS-279-107 ..... c 37 N75-33395 *
US-PATENT-CLASS-279-23.1 ..... c 37 N93-18286 *
US-PATENT-CLASS-279-3 ..... c 37 N78-17383 *
US-PATENT-CLASS-279-79 ..... c 37 N93-14710 *
US-PATENT-CLASS-279-79 ..... c 37 N93-18286 *
US-PATENT-CLASS-279-89 ..... c 37 N75-33395 *
US-PATENT-CLASS-279-89 ..... c 37 N93-14710 *
US-PATENT-CLASS-280-1.5 ..... c 52 N93-14708 *
US-PATENT-CLASS-280-150SB .. c 05 N75-25915 *
US-PATENT-CLASS-280-290 ..... c 52 N93-14708 *
US-PATENT-CLASS-280-432 ..... c 37 N77-14477 *
US-PATENT-CLASS-280-47.11 .... c 85 N87-21755 *
US-PATENT-CLASS-280-677 ..... c 37 N90-17153 *
US-PATENT-CLASS-280-682 ..... c 37 N90-17153 *
US-PATENT-CLASS-280-805 ..... c 37 N82-18601 *
US-PATENT-CLASS-280-87.051 .. c 52 N93-14708 *
US-PATENT-CLASS-285-DIG.21 . c 15 N72-25450 *
US-PATENT-CLASS-285-DIG.21 . c 33 N73-26958 *
US-PATENT-CLASS-285-107 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-108 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-109 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-114 ..... c 37 N75-19686 *
US-PATENT-CLASS-285-133.1 .... c 37 N89-13786 *
US-PATENT-CLASS-285-137.1 .... c 35 N87-28884 *
US-PATENT-CLASS-285-159 ..... c 37 N82-24494 *
US-PATENT-CLASS-285-168 ..... c 54 N86-28619 *
US-PATENT-CLASS-285-168 ..... c 54 N86-28620 *
US-PATENT-CLASS-285-168 ..... c 54 N86-29507 * #
US-PATENT-CLASS-285-184 ..... c 54 N86-29507 * #
US-PATENT-CLASS-285-18 ..... c 15 N72-20445 *
US-PATENT-CLASS-285-192 ..... c 20 N78-24275 *
US-PATENT-CLASS-285-223 ..... c 37 N92-21727 *
US-PATENT-CLASS-285-226 ..... c 37 N75-19686 *
US-PATENT-CLASS-285-226 ..... c 37 N76-14460 *
US-PATENT-CLASS-285-226 ..... c 18 N89-28553 *
US-PATENT-CLASS-285-227 ..... c 54 N86-29507 * #
US-PATENT-CLASS-285-235 ..... c 54 N78-31735 *
US-PATENT-CLASS-285-235 ..... c 54 N79-24651 *
US-PATENT-CLASS-285-23 ..... c 37 N92-10197 *
US-PATENT-CLASS-285-24 ..... c 15 N71-10782 *
US-PATENT-CLASS-285-265 ..... c 37 N76-14460 *
US-PATENT-CLASS-285-27 ..... c 15 N70-41808 *
US-PATENT-CLASS-285-27 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-302 ..... c 18 N89-25266 *
US-PATENT-CLASS-285-305 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-314 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-316 ..... c 15 N72-25450 *
US-PATENT-CLASS-285-316 ..... c 33 N73-26958 *
US-PATENT-CLASS-285-317 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-31 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-326 ..... c 37 N79-11402 *
US-PATENT-CLASS-285-327 ..... c 37 N91-14610 *
US-PATENT-CLASS-285-331 ..... c 15 N70-41629 *
US-PATENT-CLASS-285-33 ..... c 15 N72-25450 *
US-PATENT-CLASS-285-345 ..... c 15 N72-20445 *
US-PATENT-CLASS-285-346 ..... c 37 N92-21727 *
US-PATENT-CLASS-285-351 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-353 ..... c 37 N92-10197 *
US-PATENT-CLASS-285-359 ..... c 37 N79-11402 *
US-PATENT-CLASS-285-361 ..... c 37 N91-14613 *
US-PATENT-CLASS-285-373 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-37 ..... c 37 N82-24490 *
US-PATENT-CLASS-285-381 ..... c 37 N92-29120 *
US-PATENT-CLASS-285-38 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-39 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-39 ..... c 37 N92-10197 *
US-PATENT-CLASS-285-3 ..... c 15 N69-27490 * #
US-PATENT-CLASS-285-3 ..... c 15 N72-25450 *
US-PATENT-CLASS-285-401 ..... c 37 N82-24494 *
US-PATENT-CLASS-285-406 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-410 ..... c 05 N72-11085 *
US-PATENT-CLASS-285-421 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-45 ..... c 15 N71-28937 *
US-PATENT-CLASS-285-81 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-82 ..... c 37 N91-14613 *
US-PATENT-CLASS-285-85 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-86 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-89 ..... c 37 N82-24494 *
US-PATENT-CLASS-285-901 ..... c 35 N87-28884 *
US-PATENT-CLASS-285-910 ..... c 37 N92-21727 *
US-PATENT-CLASS-285-912 ..... c 37 N92-10197 *
US-PATENT-CLASS-285-91 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-97 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-97 ..... c 37 N92-21727 *
US-PATENT-CLASS-287-119 ..... c 15 N70-41829 *
US-PATENT-CLASS-287-189.365 .. c 15 N71-26312 *
US-PATENT-CLASS-287-189.36 .. c 15 N71-10799 *
US-PATENT-CLASS-287-54A ..... c 11 N72-25287 *
US-PATENT-CLASS-287-85R ..... c 15 N73-12488 *
US-PATENT-CLASS-287-92 ..... c 31 N73-32749 *
US-PATENT-CLASS-29-DIG.1 ..... c 44 N81-14389 *
US-PATENT-CLASS-29-DIG.24 .... c 24 N75-33181 *
US-PATENT-CLASS-29-DIG.35 .... c 37 N77-23482 *
US-PATENT-CLASS-29-DIG.39 .... c 24 N75-33181 *
US-PATENT-CLASS-29-110.5 ..... c 37 N92-28754 *
US-PATENT-CLASS-29-123 ..... c 37 N92-28754 *
US-PATENT-CLASS-29-125 ..... c 37 N79-10422 *
US-PATENT-CLASS-29-132 ..... c 37 N92-28754 *
US-PATENT-CLASS-29-148.4A ... c 37 N74-15128 *
US-PATENT-CLASS-29-148.4B ... c 37 N74-15128 *
US-PATENT-CLASS-29-148.4 ..... c 15 N71-16052 *
US-PATENT-CLASS-29-148.4 ..... c 15 N71-17688 *
US-PATENT-CLASS-29-155.55 .... c 15 N71-15986 *
US-PATENT-CLASS-29-156.5-R .. c 24 N87-27742 * #
US-PATENT-CLASS-29-156.8R ... c 37 N78-24544 *
US-PATENT-CLASS-29-157.3H ... c 74 N83-19596 *
US-PATENT-CLASS-29-157.3R ... c 34 N74-18552 *
US-PATENT-CLASS-29-157.3 ..... c 28 N70-41818 *
US-PATENT-CLASS-29-157 ..... c 28 N71-15658 *
US-PATENT-CLASS-29-182.1 ..... c 18 N71-23710 *
US-PATENT-CLASS-29-182.2 ..... c 17 N71-23046 *
US-PATENT-CLASS-29-182.2 ..... c 37 N75-26371 *
US-PATENT-CLASS-29-182.5 ..... c 17 N72-28536 *
US-PATENT-CLASS-29-182.5 ..... c 37 N75-26371 *
US-PATENT-CLASS-29-182.5 ..... c 27 N76-15311 *
US-PATENT-CLASS-29-182.5 ..... c 27 N77-13217 *
US-PATENT-CLASS-29-182 ..... c 37 N74-13179 *
US-PATENT-CLASS-29-182 ..... c 34 N76-27515 *
US-PATENT-CLASS-29-183.5 ..... c 17 N70-38490 *
US-PATENT-CLASS-29-193 ..... c 34 N76-27515 *
US-PATENT-CLASS-29-194 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-194 ..... c 44 N76-14595 *
US-PATENT-CLASS-29-195A ..... c 27 N76-16229 *
US-PATENT-CLASS-29-195Y ..... c 14 N73-32320 *
US-PATENT-CLASS-29-195 ..... c 44 N76-14595 *
US-PATENT-CLASS-29-196.2 ..... c 17 N73-32414 *
US-PATENT-CLASS-29-196.2 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-196.6 ..... c 17 N73-32414 *
US-PATENT-CLASS-29-196.6 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-196.6 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-197 ..... c 17 N73-32414 *
US-PATENT-CLASS-29-197 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-197 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-197 ..... c 44 N76-14595 *
US-PATENT-CLASS-29-198 ..... c 17 N70-33288 *
US-PATENT-CLASS-29-198 ..... c 09 N72-25259 *
US-PATENT-CLASS-29-203H ..... c 37 N74-32918 *
US-PATENT-CLASS-29-203MW .. c 33 N74-26977 *
US-PATENT-CLASS-29-203V ..... c 15 N73-14468 *
US-PATENT-CLASS-29-23.5 ..... c 37 N78-24544 *
US-PATENT-CLASS-29-234 ..... c 15 N70-36901 *
US-PATENT-CLASS-29-244 ..... c 37 N78-24544 *
US-PATENT-CLASS-29-25.14 ..... c 05 N72-25121 *
US-PATENT-CLASS-29-25.14 ..... c 35 N82-24471 *
US-PATENT-CLASS-29-25.18 ..... c 09 N71-26678 *
US-PATENT-CLASS-29-25.18 ..... c 05 N72-25121 *
US-PATENT-CLASS-29-25.18 ..... c 20 N75-18310 *
US-PATENT-CLASS-29-25.18 ..... c 20 N76-21276 *
US-PATENT-CLASS-29-25.35 ..... c 35 N80-20559 *
US-PATENT-CLASS-29-25.42 ..... c 26 N72-28762 *
US-PATENT-CLASS-29-252 ..... c 37 N78-24544 *
US-PATENT-CLASS-29-26A ..... c 37 N75-33395 *
US-PATENT-CLASS-29-263 ..... c 37 N93-14871 *
US-PATENT-CLASS-29-267 ..... c 60 N82-24839 *
US-PATENT-CLASS-29-268 ..... c 37 N74-32918 *
US-PATENT-CLASS-29-271 ..... c 15 N70-41371 *
US-PATENT-CLASS-29-278R ..... c 15 N71-29133 *
US-PATENT-CLASS-29-400 ..... c 05 N71-12345 *
US-PATENT-CLASS-29-402.16 .... c 37 N86-32736 * #
US-PATENT-CLASS-29-412 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-419 ..... c 24 N75-28135 *
US-PATENT-CLASS-29-420.5 ..... c 26 N74-10521 *
US-PATENT-CLASS-29-420.5 ..... c 37 N74-13179 *
US-PATENT-CLASS-29-420.5 ..... c 37 N75-26371 *
US-PATENT-CLASS-29-420 ..... c 24 N75-13032 *
US-PATENT-CLASS-29-421E ..... c 37 N79-13364 *
US-PATENT-CLASS-29-421 ..... c 15 N71-29018 *
US-PATENT-CLASS-29-421 ..... c 14 N72-22439 *
US-PATENT-CLASS-29-421 ..... c 37 N76-14461 *
US-PATENT-CLASS-29-423 ..... c 15 N70-36409 *
US-PATENT-CLASS-29-423 ..... c 31 N74-21059 *
US-PATENT-CLASS-29-423 ..... c 52 N84-28389 *
US-PATENT-CLASS-29-426.5 ..... c 37 N93-14871 *
US-PATENT-CLASS-29-426 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-428 ..... c 15 N71-17686 *
US-PATENT-CLASS-29-432 ..... c 37 N76-19437 *
US-PATENT-CLASS-29-433 ..... c 37 N76-19437 *
US-PATENT-CLASS-29-446 ..... c 37 N83-36482 *
US-PATENT-CLASS-29-447 ..... c 37 N77-23482 *
US-PATENT-CLASS-29-451 ..... c 52 N84-28389 *
US-PATENT-CLASS-29-452 ..... c 15 N73-30457 *
US-PATENT-CLASS-29-458 ..... c 26 N83-10170 *
US-PATENT-CLASS-29-460 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-460 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-463 ..... c 07 N78-33101 *
US-PATENT-CLASS-29-467 ..... c 39 N76-31562 *
US-PATENT-CLASS-29-470.1 ..... c 37 N74-21057 *
US-PATENT-CLASS-29-470.1 ..... c 37 N75-12326 *
US-PATENT-CLASS-29-472.7 ..... c 37 N75-15992 *
US-PATENT-CLASS-29-472.9 ..... c 15 N69-39786 * #
US-PATENT-CLASS-29-472.9 ..... c 26 N71-16037 *
US-PATENT-CLASS-29-472.9 ..... c 15 N72-22492 *
US-PATENT-CLASS-29-473.1 ..... c 15 N72-22487 *
US-PATENT-CLASS-29-473.1 ..... c 15 N72-22492 *
US-PATENT-CLASS-29-473.1 ..... c 37 N75-15992 *
US-PATENT-CLASS-29-475 ..... c 37 N75-12326 *
US-PATENT-CLASS-29-482 ..... c 05 N72-25121 *
US-PATENT-CLASS-29-482 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-487 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-487 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-488 ..... c 15 N70-33311 *
US-PATENT-CLASS-29-488 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-492 ..... c 15 N71-20443 *
US-PATENT-CLASS-29-492 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-494 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-494 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-494 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-495 ..... c 15 N71-21078 *
US-PATENT-CLASS-29-497.5 ..... c 15 N73-28515 *
US-PATENT-CLASS-29-497.5 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-497.5 ..... c 37 N74-11300 *
US-PATENT-CLASS-29-497.5 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-497 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-497 ..... c 15 N73-32358 *
US-PATENT-CLASS-29-497 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-498 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-498 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-498 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-498 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-498 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-502 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-503 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-504 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-504 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-517 ..... c 15 N71-17650 *
US-PATENT-CLASS-29-521 ..... c 26 N83-10170 *
US-PATENT-CLASS-29-526 ..... c 37 N76-19437 *
US-PATENT-CLASS-29-526 ..... c 39 N76-31562 *
US-PATENT-CLASS-29-527.2 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-527.2 ..... c 15 N73-32360 *
US-PATENT-CLASS-29-527.2 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-527.2 ..... c 24 N75-33181 *
US-PATENT-CLASS-29-527.2 ..... c 24 N77-19171 *
US-PATENT-CLASS-29-558 ..... c 37 N91-32508 *
US-PATENT-CLASS-29-568 ..... c 37 N91-31656 *
US-PATENT-CLASS-29-57-4 ..... c 44 N79-24431 *

US-PATENT-CLASS-29-570 ..... c 26 N72-28761 *
US-PATENT-CLASS-29-571 ..... c 35 N75-13213 *
US-PATENT-CLASS-29-571 ..... c 33 N78-27326 *
US-PATENT-CLASS-29-571 ..... c 33 N81-26360 *
US-PATENT-CLASS-29-572 ..... c 09 N71-23027 *
US-PATENT-CLASS-29-572 ..... c 03 N71-24681 *
US-PATENT-CLASS-29-572 ..... c 03 N72-22041 *
US-PATENT-CLASS-29-572 ..... c 44 N74-14784 *
US-PATENT-CLASS-29-572 ..... c 44 N76-14600 *
US-PATENT-CLASS-29-572 ..... c 44 N76-28635 *
US-PATENT-CLASS-29-572 ..... c 44 N77-10635 *
US-PATENT-CLASS-29-572 ..... c 44 N78-24609 *
US-PATENT-CLASS-29-572 ..... c 44 N78-25527 *
US-PATENT-CLASS-29-572 ..... c 44 N78-25528 *
US-PATENT-CLASS-29-572 ..... c 44 N78-25529 *
US-PATENT-CLASS-29-572 ..... c 44 N79-11468 *
US-PATENT-CLASS-29-572 ..... c 44 N79-11472 *
US-PATENT-CLASS-29-572 ..... c 44 N79-17314 *
US-PATENT-CLASS-29-572 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-572 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-572 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-572 ..... c 44 N79-31752 *
US-PATENT-CLASS-29-572 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-572 ..... c 44 N82-28780 *
US-PATENT-CLASS-29-572 ..... c 44 N82-29709 *
US-PATENT-CLASS-29-572 ..... c 44 N83-13579 *
US-PATENT-CLASS-29-572 ..... c 76 N86-20150 *
US-PATENT-CLASS-29-572 ..... c 44 N86-32875 *
US-PATENT-CLASS-29-573 ..... c 14 N73-13417 *
US-PATENT-CLASS-29-575 ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-E ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-J ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-W ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576B ..... c 44 N86-32875 *
US-PATENT-CLASS-29-576E ..... c 76 N85-30922 *
US-PATENT-CLASS-29-576J ..... c 35 N82-31659 *
US-PATENT-CLASS-29-576J ..... c 76 N85-30922 *
US-PATENT-CLASS-29-576S ..... c 35 N82-31659 *
US-PATENT-CLASS-29-576W ..... c 76 N85-30922 *
US-PATENT-CLASS-29-577 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-578 ..... c 26 N72-17820 *
US-PATENT-CLASS-29-578 ..... c 33 N78-27326 *
US-PATENT-CLASS-29-578 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-578 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-578 ..... c 33 N81-26360 *
US-PATENT-CLASS-29-578 ..... c 76 N85-30922 *
US-PATENT-CLASS-29-578 ..... c 76 N87-15882 *
US-PATENT-CLASS-29-580 ..... c 09 N73-27150 * #
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US-PATENT-CLASS-29-580 ..... c 35 N87-14671 *
US-PATENT-CLASS-29-588 ..... c 14 N71-27334 *
US-PATENT-CLASS-29-588 ..... c 14 N72-31446 *
US-PATENT-CLASS-29-588 ..... c 44 N74-14784 *
US-PATENT-CLASS-29-588 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-589 ..... c 26 N72-17820 *
US-PATENT-CLASS-29-589 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-589 ..... c 15 N73-14469 *
US-PATENT-CLASS-29-589 ..... c 44 N79-31752 *
US-PATENT-CLASS-29-590 ..... c 09 N72-22199 *
US-PATENT-CLASS-29-591 ..... c 15 N73-14469 *
US-PATENT-CLASS-29-591 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-591 ..... c 35 N87-14671 *
US-PATENT-CLASS-29-592 ..... c 35 N75-13213 *
US-PATENT-CLASS-29-597 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-599 ..... c 15 N72-25447 *
US-PATENT-CLASS-29-599 ..... c 26 N73-26752 *
US-PATENT-CLASS-29-599 ..... c 26 N73-32571 *
US-PATENT-CLASS-29-603 ..... c 08 N71-27210 *
US-PATENT-CLASS-29-604 ..... c 24 N75-13032 *
US-PATENT-CLASS-29-610SG .... c 35 N85-21598 *
US-PATENT-CLASS-29-610 ..... c 24 N75-30260 *
US-PATENT-CLASS-29-613 ..... c 24 N75-30260 *
US-PATENT-CLASS-29-613 ..... c 35 N82-24470 *
US-PATENT-CLASS-29-620 ..... c 35 N82-31659 *
US-PATENT-CLASS-29-622 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-623.5 ..... c 44 N83-32176 *
US-PATENT-CLASS-29-623.5 ..... c 26 N84-22734 *
US-PATENT-CLASS-29-623.5 ..... c 44 N84-28205 *
US-PATENT-CLASS-29-623.5 ..... c 33 N91-27478 *
US-PATENT-CLASS-29-624 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-624 ..... c 14 N73-13417 *
US-PATENT-CLASS-29-627 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-628 ..... c 15 N72-22491 *
US-PATENT-CLASS-29-628 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-628 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-628 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-628 ..... c 44 N78-25528 *
US-PATENT-CLASS-29-629 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-630A ..... c 05 N72-25121 *
US-PATENT-CLASS-29-630A ..... c 09 N73-28083 *
US-PATENT-CLASS-29-630E ..... c 33 N77-26385 *
US-PATENT-CLASS-29-630 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-739 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-764 ..... c 60 N82-24839 *
US-PATENT-CLASS-29-809 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-81C ..... c 75 N78-27913 *
US-PATENT-CLASS-29-81D ..... c 37 N76-18454 *
US-PATENT-CLASS-29-825 ..... c 44 N84-28205 *
US-PATENT-CLASS-29-832 ..... c 44 N81-14389 *
US-PATENT-CLASS-29-888.046 .. c 37 N90-22042 *
US-PATENT-CLASS-29-898.01 .... c 37 N93-14871 *
US-PATENT-CLASS-29-898.07 .... c 37 N93-14871 *
US-PATENT-CLASS-29-898.08 .... c 37 N93-14871 *
US-PATENT-CLASS-290-1-R ..... c 33 N87-23904 *
US-PATENT-CLASS-290-1R ..... c 44 N85-21769 *
US-PATENT-CLASS-290-4R ..... c 44 N85-21769 *
US-PATENT-CLASS-290-40 ..... c 03 N71-11057 *
US-PATENT-CLASS-290-44 ..... c 37 N90-23742 *
US-PATENT-CLASS-290-44 ..... c 05 N91-14345 *
US-PATENT-CLASS-290-52 ..... c 37 N77-32500 *
US-PATENT-CLASS-290-52 ..... c 37 N77-32501 *
US-PATENT-CLASS-290-53 ..... c 44 N80-29834 *
US-PATENT-CLASS-290-55 ..... c 44 N84-23018 *
US-PATENT-CLASS-290-55 ..... c 37 N90-23742 *
US-PATENT-CLASS-290-55 ..... c 05 N91-14345 *
US-PATENT-CLASS-292-DIG.14 . c 37 N75-19685 *
US-PATENT-CLASS-292-DIG.39 . c 37 N92-21500 *
US-PATENT-CLASS-292-DIG.49 . c 37 N87-25582 *
US-PATENT-CLASS-292-DIG.66 . c 37 N92-29120 *
US-PATENT-CLASS-292-108 ..... c 37 N75-19685 *
US-PATENT-CLASS-292-110 ..... c 37 N77-32499 *
US-PATENT-CLASS-292-110 ..... c 37 N92-21500 *
US-PATENT-CLASS-292-122 ..... c 37 N75-19685 *
US-PATENT-CLASS-292-201 ..... c 37 N87-25582 *
US-PATENT-CLASS-292-251.5 .... c 31 N92-16161 *
US-PATENT-CLASS-292-252 ..... c 37 N85-21649 *
US-PATENT-CLASS-292-27 ..... c 37 N90-17154 *
US-PATENT-CLASS-292-34 ..... c 37 N90-17154 *
US-PATENT-CLASS-292-60 ..... c 37 N91-27561 *
US-PATENT-CLASS-292-61 ..... c 37 N91-27561 *
US-PATENT-CLASS-292-64 ..... c 37 N87-25582 *
US-PATENT-CLASS-294-1R ..... c 35 N76-16392 *
US-PATENT-CLASS-294-106 ..... c 37 N81-14320 *
US-PATENT-CLASS-294-106 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-106 ..... c 37 N90-20408 *
US-PATENT-CLASS-294-106 ..... c 37 N91-14616 *
US-PATENT-CLASS-294-111 ..... c 37 N91-14616 *
US-PATENT-CLASS-294-113 ..... c 37 N80-14398 *
US-PATENT-CLASS-294-113 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-116 ..... c 37 N75-33395 *
US-PATENT-CLASS-294-116 ..... c 37 N82-32731 *
US-PATENT-CLASS-294-119.1 .... c 37 N91-14615 *
US-PATENT-CLASS-294-119.1 .... c 37 N92-29138 *
US-PATENT-CLASS-294-119.1 .... c 37 N93-18288 *
US-PATENT-CLASS-294-119.2 .... c 37 N88-23979 *
US-PATENT-CLASS-294-15 ..... c 15 N71-29133 *
US-PATENT-CLASS-294-16 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-19R ..... c 35 N76-16392 *
US-PATENT-CLASS-294-65.5 ..... c 37 N92-28727 *
US-PATENT-CLASS-294-65.5 ..... c 37 N92-33018 *
US-PATENT-CLASS-294-66.2 ..... c 37 N92-33018 *
US-PATENT-CLASS-294-82.26 .... c 37 N91-32498 *
US-PATENT-CLASS-294-83 ..... c 15 N71-24897 *
US-PATENT-CLASS-294-86.33 .... c 37 N75-33395 *
US-PATENT-CLASS-294-86.4 ..... c 37 N90-20408 *
US-PATENT-CLASS-294-86.4 ..... c 37 N91-31656 *
US-PATENT-CLASS-294-86.4 ..... c 37 N92-28727 *
US-PATENT-CLASS-294-86.4 ..... c 37 N92-33018 *
US-PATENT-CLASS-294-86.4 ..... c 37 N93-17625 *
US-PATENT-CLASS-294-86R ..... c 37 N80-14398 *
US-PATENT-CLASS-294-86R ..... c 37 N81-27519 *
US-PATENT-CLASS-294-86R ..... c 18 N83-29303 *
US-PATENT-CLASS-294-88 ..... c 37 N89-13785 *
US-PATENT-CLASS-294-89 ..... c 37 N93-13417 *
US-PATENT-CLASS-294-902 ..... c 37 N92-29138 *
US-PATENT-CLASS-294-902 ..... c 37 N93-17625 *
US-PATENT-CLASS-294-907 ..... c 37 N92-33018 *
US-PATENT-CLASS-294-907 ..... c 37 N93-18288 *
US-PATENT-CLASS-294-93 ..... c 54 N81-26718 *
US-PATENT-CLASS-294-94 ..... c 37 N93-13417 *
US-PATENT-CLASS-296-1S ..... c 85 N82-33288 *
US-PATENT-CLASS-296-1S ..... c 02 N88-14071 *
US-PATENT-CLASS-296-100 ..... c 37 N87-17036 *
US-PATENT-CLASS-296-20 ..... c 85 N87-21755 *
US-PATENT-CLASS-296-24C ..... c 85 N82-33288 *
US-PATENT-CLASS-296-91 ..... c 85 N82-33288 *
US-PATENT-CLASS-297-DIG.5 .... c 03 N84-33394 *
US-PATENT-CLASS-297-216 ..... c 05 N70-35152 *
US-PATENT-CLASS-297-216 ..... c 37 N88-23982 *
US-PATENT-CLASS-297-232 ..... c 05 N72-11085 *
US-PATENT-CLASS-297-385 ..... c 05 N71-12341 *
US-PATENT-CLASS-297-385 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-386 ..... c 15 N73-30460 *
US-PATENT-CLASS-297-388 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-389 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-423 ..... c 54 N93-14713 *
US-PATENT-CLASS-297-68 ..... c 05 N71-12343 *
US-PATENT-CLASS-297-68 ..... c 05 N72-11085 *
US-PATENT-CLASS-299-13 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-17 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-1 ..... c 43 N79-26439 *
US-PATENT-CLASS-299-1 ..... c 35 N84-33768 *
US-PATENT-CLASS-299-20 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-67 ..... c 46 N74-23068 *
US-PATENT-CLASS-299-86 ..... c 46 N74-23069 *
US-PATENT-CLASS-3-1.1 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-1.1 ..... c 52 N77-14738 *
US-PATENT-CLASS-3-1.1 ..... c 54 N79-24652 *
US-PATENT-CLASS-3-1.1 ..... c 74 N84-11921 *
US-PATENT-CLASS-3-1.2 ..... c 52 N77-14735 *
US-PATENT-CLASS-3-1.2 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-1.9 ..... c 27 N78-17215 *
US-PATENT-CLASS-3-1.9 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-12.5 ..... c 54 N78-17676 *
US-PATENT-CLASS-3-12.5 ..... c 54 N79-24652 *
US-PATENT-CLASS-3-12 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-12 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-14 ..... c 52 N77-14735 *
US-PATENT-CLASS-3-15 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-1 ..... c 52 N77-25772 *
US-PATENT-CLASS-3-21 ..... c 54 N77-30749 *
US-PATENT-CLASS-3-29 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-2 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-2 ..... c 54 N77-30749 *
US-PATENT-CLASS-3-2 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-6 ..... c 05 N73-32013 *
US-PATENT-CLASS-30-102 ..... c 37 N82-26672 *
US-PATENT-CLASS-30-180 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-188 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-228 ..... c 15 N70-42017 *
US-PATENT-CLASS-30-228 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-249 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-272R ..... c 37 N84-28085 *
US-PATENT-CLASS-30-388 ..... c 37 N91-31655 *
US-PATENT-CLASS-30-90.6 ..... c 37 N79-10419 *
US-PATENT-CLASS-30-92 ..... c 37 N91-31655 *
US-PATENT-CLASS-301-5P ..... c 37 N74-18125 *
US-PATENT-CLASS-301-82 ..... c 33 N79-10339 *
US-PATENT-CLASS-302-66 ..... c 25 N79-11152 *
US-PATENT-CLASS-303-92 ..... c 44 N79-14527 *
US-PATENT-CLASS-305-35EB .... c 11 N73-26238 *
US-PATENT-CLASS-305-36 ..... c 37 N87-17034 *
US-PATENT-CLASS-305-39 ..... c 11 N73-26238 *
US-PATENT-CLASS-305-51 ..... c 37 N87-17034 *
US-PATENT-CLASS-305-58PC .... c 37 N87-17034 *
US-PATENT-CLASS-305-58R ..... c 37 N87-17034 *
US-PATENT-CLASS-307-103 ..... c 09 N72-25262 *
US-PATENT-CLASS-307-104 ..... c 09 N71-24892 *
US-PATENT-CLASS-307-106 ..... c 09 N69-21468 * #
US-PATENT-CLASS-307-106 ..... c 33 N88-24862 *
US-PATENT-CLASS-307-110 ..... c 33 N93-18278 *
US-PATENT-CLASS-307-118 ..... c 09 N72-27227 *
US-PATENT-CLASS-307-119 ..... c 33 N79-28415 *
US-PATENT-CLASS-307-126 ..... c 14 N71-27407 *
US-PATENT-CLASS-307-127 ..... c 33 N74-14956 *
US-PATENT-CLASS-307-131 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-136 ..... c 09 N69-27500 * #
US-PATENT-CLASS-307-141.8 .... c 03 N72-25020 *
US-PATENT-CLASS-307-149 ..... c 09 N71-13486 *
US-PATENT-CLASS-307-149 ..... c 54 N75-12616 *
US-PATENT-CLASS-307-151 ..... c 32 N78-24391 *
US-PATENT-CLASS-307-157 ..... c 16 N73-32391 *
US-PATENT-CLASS-307-18 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-18 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-201 ..... c 32 N92-22033 *
US-PATENT-CLASS-307-204 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-205 ..... c 33 N75-14957 *
US-PATENT-CLASS-307-206 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-207 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-207 ..... c 09 N73-13209 *
US-PATENT-CLASS-307-208 ..... c 33 N75-14957 *
US-PATENT-CLASS-307-211 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-215 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-215 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-215 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-215 ..... c 09 N73-13209 *
US-PATENT-CLASS-307-215 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-216 ..... c 08 N71-18751 *
US-PATENT-CLASS-307-219 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-219 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-220 ..... c 10 N73-26229 *
US-PATENT-CLASS-307-221R .... c 10 N73-20254 *
US-PATENT-CLASS-307-221R .... c 33 N76-14373 *
US-PATENT-CLASS-307-222 ..... c 09 N69-27463 * #
US-PATENT-CLASS-307-222 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-223B .... c 09 N72-22201 *
US-PATENT-CLASS-307-223 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-225R .... c 33 N74-10223 *
US-PATENT-CLASS-307-225R .... c 33 N75-31330 *
US-PATENT-CLASS-307-225R .... c 33 N77-24375 *
US-PATENT-CLASS-307-225R .... c 60 N81-15706 *
US-PATENT-CLASS-307-227 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-227 ..... c 33 N75-19522 *
US-PATENT-CLASS-307-229 ..... c 09 N71-12520 *
US-PATENT-CLASS-307-229 ..... c 09 N72-23173 *
US-PATENT-CLASS-307-229 ..... c 33 N75-18479 *
US-PATENT-CLASS-307-229 ..... c 33 N77-17354 *

US-PATENT-CLASS-307-229 ..... c 33 N78-32339 *
US-PATENT-CLASS-307-230 ..... c 10 N72-16172 *
US-PATENT-CLASS-307-230 ..... c 09 N72-21245 *
US-PATENT-CLASS-307-230 ..... c 09 N73-20232 *
US-PATENT-CLASS-307-230 ..... c 33 N74-32712 *
US-PATENT-CLASS-307-230 ..... c 33 N77-17354 *
US-PATENT-CLASS-307-230 ..... c 33 N78-32339 *
US-PATENT-CLASS-307-231 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-232 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-232 ..... c 33 N79-11313 *
US-PATENT-CLASS-307-233R .... c 32 N79-10262 *
US-PATENT-CLASS-307-233R .... c 33 N81-17348 *
US-PATENT-CLASS-307-233 ..... c 09 N72-25257 *
US-PATENT-CLASS-307-233 ..... c 10 N73-26229 *
US-PATENT-CLASS-307-233 ..... c 33 N77-13315 *
US-PATENT-CLASS-307-234 ..... c 10 N71-23315 *
US-PATENT-CLASS-307-234 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-234 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-235R .... c 33 N75-18479 *
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US-PATENT-CLASS-307-235 ..... c 09 N71-23545 *
US-PATENT-CLASS-307-235 ..... c 10 N71-24862 *
US-PATENT-CLASS-307-237 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-237 ..... c 32 N74-19788 *
US-PATENT-CLASS-307-238 ..... c 33 N75-31331 *
US-PATENT-CLASS-307-238 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-241 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-242 ..... c 10 N73-13235 *
US-PATENT-CLASS-307-243 ..... c 09 N71-12516 *
US-PATENT-CLASS-307-243 ..... c 08 N72-22162 *
US-PATENT-CLASS-307-243 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-246 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-247 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-247 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-251 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-251 ..... c 08 N72-22162 *
US-PATENT-CLASS-307-252F ..... c 09 N72-17153 *
US-PATENT-CLASS-307-252J ..... c 09 N72-17153 *
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US-PATENT-CLASS-307-252K .... c 09 N72-22201 *
US-PATENT-CLASS-307-252L .... c 33 N74-27682 *
US-PATENT-CLASS-307-252N .... c 09 N72-23171 *
US-PATENT-CLASS-307-252Q .... c 33 N74-27682 *
US-PATENT-CLASS-307-252R .... c 09 N72-23171 *
US-PATENT-CLASS-307-252UA .. c 33 N81-27395 *
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US-PATENT-CLASS-307-252 ..... c 09 N71-12514 *
US-PATENT-CLASS-307-253 ..... c 10 N71-27126 *
US-PATENT-CLASS-307-254 ..... c 10 N71-24799 *
US-PATENT-CLASS-307-254 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-257 ..... c 09 N72-21247 *
US-PATENT-CLASS-307-259 ..... c 09 N72-21247 *
US-PATENT-CLASS-307-259 ..... c 09 N72-23171 *
US-PATENT-CLASS-307-259 ..... c 10 N73-13235 *
US-PATENT-CLASS-307-260 ..... c 09 N71-23311 *
US-PATENT-CLASS-307-260 ..... c 05 N71-23317 *
US-PATENT-CLASS-307-260 ..... c 33 N75-19515 *
US-PATENT-CLASS-307-261 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-261 ..... c 09 N72-25251 *
US-PATENT-CLASS-307-261 ..... c 33 N87-21235 *
US-PATENT-CLASS-307-262 ..... c 10 N72-16172 *
US-PATENT-CLASS-307-262 ..... c 09 N72-22197 *
US-PATENT-CLASS-307-262 ..... c 09 N72-33204 *
US-PATENT-CLASS-307-263 ..... c 09 N71-23270 *
US-PATENT-CLASS-307-263 ..... c 09 N71-28926 *
US-PATENT-CLASS-307-264 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-265 ..... c 09 N69-39987 * #
US-PATENT-CLASS-307-265 ..... c 10 N71-23029 *
US-PATENT-CLASS-307-265 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-265 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-265 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-265 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-265 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-267 ..... c 09 N71-20447 *
US-PATENT-CLASS-307-267 ..... c 33 N74-32711 *
US-PATENT-CLASS-307-267 ..... c 33 N75-18479 *
US-PATENT-CLASS-307-268 ..... c 09 N69-24317 * #
US-PATENT-CLASS-307-269 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-270 ..... c 33 N78-17294 *
US-PATENT-CLASS-307-270 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-271 ..... c 10 N73-32145 *
US-PATENT-CLASS-307-271 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-272.1 .... c 33 N92-16196 *
US-PATENT-CLASS-307-273 ..... c 10 N71-18723 *
US-PATENT-CLASS-307-273 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-273 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-273 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-273 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-273 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-280 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-284 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-288 ..... c 09 N71-23015 *
US-PATENT-CLASS-307-288 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-288 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-288 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-289 ..... c 10 N71-19547 *

US-PATENT-CLASS-307-28 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-290 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-291 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-294 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-295 ..... c 10 N72-17171 *
US-PATENT-CLASS-307-295 ..... c 10 N72-20223 *
US-PATENT-CLASS-307-295 ..... c 09 N72-21245 *
US-PATENT-CLASS-307-295 ..... c 09 N72-33204 *
US-PATENT-CLASS-307-295 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-295 ..... c 33 N77-13315 *
US-PATENT-CLASS-307-296.2 .... c 33 N92-16196 *
US-PATENT-CLASS-307-296.7 .... c 33 N92-16196 *
US-PATENT-CLASS-307-296 ..... c 08 N71-12494 *
US-PATENT-CLASS-307-296 ..... c 07 N71-28430 *
US-PATENT-CLASS-307-297 ..... c 33 N78-17294 *
US-PATENT-CLASS-307-299 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-299 ..... c 26 N72-21701 *
US-PATENT-CLASS-307-29 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-300 ..... c 10 N71-27126 *
US-PATENT-CLASS-307-303 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-303 ..... c 33 N92-16196 *
US-PATENT-CLASS-307-304 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-304 ..... c 09 N73-20232 *
US-PATENT-CLASS-307-304 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-305 ..... c 09 N72-23171 *
US-PATENT-CLASS-307-306 ..... c 33 N78-13320 *
US-PATENT-CLASS-307-306 ..... c 33 N81-17348 *
US-PATENT-CLASS-307-308 ..... c 14 N73-28488 *
US-PATENT-CLASS-307-309 ..... c 35 N75-13213 *
US-PATENT-CLASS-307-310 ..... c 09 N73-14214 *
US-PATENT-CLASS-307-311 ..... c 14 N72-18411 *
US-PATENT-CLASS-307-311 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-311 ..... c 09 N73-14214 *
US-PATENT-CLASS-307-311 ..... c 33 N92-16196 *
US-PATENT-CLASS-307-313 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-317 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-317 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-31 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-321 ..... c 33 N75-19520 *
US-PATENT-CLASS-307-321 ..... c 33 N75-25041 *
US-PATENT-CLASS-307-322 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-323 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-350 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-352 ..... c 33 N81-27396 *
US-PATENT-CLASS-307-353 ..... c 33 N81-27396 *
US-PATENT-CLASS-307-353 ..... c 33 N91-26438 *
US-PATENT-CLASS-307-354 ..... c 33 N87-21235 *
US-PATENT-CLASS-307-35 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-360 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-38 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-415 ..... c 33 N82-24418 *
US-PATENT-CLASS-307-425 ..... c 36 N87-25567 *
US-PATENT-CLASS-307-490 ..... c 33 N87-22895 *
US-PATENT-CLASS-307-520 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-521 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-529 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-53 ..... c 10 N71-26626 *
US-PATENT-CLASS-307-53 ..... c 33 N78-17296 *
US-PATENT-CLASS-307-566 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-570 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-572 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-63 ..... c 44 N80-14472 *
US-PATENT-CLASS-307-64 ..... c 33 N77-30365 *
US-PATENT-CLASS-307-64 ..... c 44 N85-21769 *
US-PATENT-CLASS-307-64 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-66 ..... c 44 N80-14472 *
US-PATENT-CLASS-307-66 ..... c 44 N85-21769 *
US-PATENT-CLASS-307-66 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-69 ..... c 33 N78-17296 *
US-PATENT-CLASS-307-80 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-81 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-82 ..... c 33 N79-24254 *
US-PATENT-CLASS-307-82 ..... c 33 N85-29147 *
US-PATENT-CLASS-307-83 ..... c 09 N72-25262 *
US-PATENT-CLASS-307-87 ..... c 33 N84-33660 *
US-PATENT-CLASS-307-88.3 ..... c 09 N72-25258 *
US-PATENT-CLASS-307-88.5 ..... c 09 N70-34819 *
US-PATENT-CLASS-307-88.5 ..... c 09 N70-40272 *
US-PATENT-CLASS-307-88.5 ..... c 09 N70-41675 *
US-PATENT-CLASS-307-88.5 ..... c 10 N70-42032 *
US-PATENT-CLASS-307-88.5 ..... c 09 N71-10673 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-15910 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-16042 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-28739 *
US-PATENT-CLASS-307-88MP .... c 09 N72-22197 *
US-PATENT-CLASS-307-88 ..... c 08 N70-34743 *
US-PATENT-CLASS-307-88 ..... c 09 N70-38604 *
US-PATENT-CLASS-307-88 ..... c 09 N71-24803 *
US-PATENT-CLASS-307-88 ..... c 09 N71-26000 *
US-PATENT-CLASS-307-92 ..... c 09 N72-27227 *
US-PATENT-CLASS-307-98 ..... c 33 N79-28415 *
US-PATENT-CLASS-308-DIG.1 .... c 15 N72-17451 *
US-PATENT-CLASS-308-DIG.1 .... c 37 N79-10418 *
US-PATENT-CLASS-308-DIG.8 .... c 24 N79-17916 *
US-PATENT-CLASS-308-DIG.9 .... c 24 N79-17916 *
US-PATENT-CLASS-308-10 ..... c 15 N71-22997 *

US-PATENT-CLASS-308-10 ..... c 15 N72-33476 *
US-PATENT-CLASS-308-10 ..... c 35 N74-18323 *
US-PATENT-CLASS-308-10 ..... c 37 N75-18574 *
US-PATENT-CLASS-308-10 ..... c 37 N76-18459 *
US-PATENT-CLASS-308-10 ..... c 37 N77-17464 *
US-PATENT-CLASS-308-10 ..... c 44 N78-24608 *
US-PATENT-CLASS-308-10 ..... c 37 N78-27424 *
US-PATENT-CLASS-308-10 ..... c 35 N79-26372 *
US-PATENT-CLASS-308-10 ..... c 71 N81-15767 *
US-PATENT-CLASS-308-10 ..... c 44 N83-28574 *
US-PATENT-CLASS-308-10 ..... c 37 N83-32067 *
US-PATENT-CLASS-308-10 ..... c 37 N83-34323 *
US-PATENT-CLASS-308-10 ..... c 71 N83-36846 *
US-PATENT-CLASS-308-10 ..... c 37 N85-20337 *
US-PATENT-CLASS-308-121 ..... c 37 N74-32921 *
US-PATENT-CLASS-308-121 ..... c 37 N75-30562 *
US-PATENT-CLASS-308-121 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-122 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-160 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-160 ..... c 37 N76-29588 *
US-PATENT-CLASS-308-160 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-163 ..... c 37 N76-29588 *
US-PATENT-CLASS-308-163 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-168 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-170 ..... c 15 N71-28465 *
US-PATENT-CLASS-308-170 ..... c 37 N76-29588 *
US-PATENT-CLASS-308-171 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-172 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-174 ..... c 54 N75-12616 *
US-PATENT-CLASS-308-176 ..... c 15 N71-22982 *
US-PATENT-CLASS-308-177 ..... c 15 N71-29136 *
US-PATENT-CLASS-308-187 ..... c 15 N71-26189 *
US-PATENT-CLASS-308-188 ..... c 15 N73-30458 *
US-PATENT-CLASS-308-188 ..... c 37 N74-21064 *
US-PATENT-CLASS-308-191 ..... c 37 N74-21064 *
US-PATENT-CLASS-308-191 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-193 ..... c 15 N73-30458 *
US-PATENT-CLASS-308-194 ..... c 37 N79-11404 *
US-PATENT-CLASS-308-195 ..... c 15 N72-22490 *
US-PATENT-CLASS-308-195 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-195 ..... c 37 N77-32500 *
US-PATENT-CLASS-308-195 ..... c 37 N77-32501 *
US-PATENT-CLASS-308-1 ..... c 31 N71-26537 *
US-PATENT-CLASS-308-2A ..... c 15 N72-26371 *
US-PATENT-CLASS-308-2A ..... c 15 N73-12488 *
US-PATENT-CLASS-308-2A ..... c 37 N84-12492 *
US-PATENT-CLASS-308-201 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-2 ..... c 15 N71-23812 *
US-PATENT-CLASS-308-35 ..... c 15 N73-32359 *
US-PATENT-CLASS-308-5R ..... c 37 N77-28486 *
US-PATENT-CLASS-308-5R ..... c 37 N79-10418 *
US-PATENT-CLASS-308-5 ..... c 15 N71-10617 *
US-PATENT-CLASS-308-5 ..... c 15 N72-11388 *
US-PATENT-CLASS-308-5 ..... c 15 N72-17451 *
US-PATENT-CLASS-308-72 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-72 ..... c 37 N77-32500 *
US-PATENT-CLASS-308-72 ..... c 37 N79-11404 *
US-PATENT-CLASS-308-73 ..... c 37 N74-21061 *
US-PATENT-CLASS-308-73 ..... c 37 N75-30562 *
US-PATENT-CLASS-308-73 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-73 ..... c 37 N77-28486 *
US-PATENT-CLASS-308-78 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-87R ..... c 24 N79-17916 *
US-PATENT-CLASS-308-9 ..... c 15 N70-34664 *
US-PATENT-CLASS-308-9 ..... c 15 N70-38620 *
US-PATENT-CLASS-308-9 ..... c 15 N70-39896 *
US-PATENT-CLASS-308-9 ..... c 15 N71-20739 *
US-PATENT-CLASS-308-9 ..... c 14 N71-26627 *
US-PATENT-CLASS-308-9 ..... c 15 N72-17451 *
US-PATENT-CLASS-308-9 ..... c 15 N73-32359 *
US-PATENT-CLASS-308-9 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-9 ..... c 37 N77-28486 *
US-PATENT-CLASS-308-9 ..... c 37 N79-10418 *
US-PATENT-CLASS-31-35 ..... c 31 N85-21404 *
US-PATENT-CLASS-310-101 ..... c 15 N71-24696 *
US-PATENT-CLASS-310-10 ..... c 03 N69-39890 * #
US-PATENT-CLASS-310-10 ..... c 09 N71-23443 *
US-PATENT-CLASS-310-10 ..... c 09 N71-24904 *
US-PATENT-CLASS-310-10 ..... c 09 N72-25255 *
US-PATENT-CLASS-310-10 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-111 ..... c 33 N77-26387 *
US-PATENT-CLASS-310-112 ..... c 37 N92-33634 *
US-PATENT-CLASS-310-11 ..... c 25 N69-21929 * #
US-PATENT-CLASS-310-11 ..... c 03 N69-39983 * #
US-PATENT-CLASS-310-11 ..... c 03 N70-36803 *
US-PATENT-CLASS-310-11 ..... c 14 N72-22439 *
US-PATENT-CLASS-310-11 ..... c 12 N72-25292 *
US-PATENT-CLASS-310-11 ..... c 35 N74-21018 *
US-PATENT-CLASS-310-11 ..... c 36 N75-32441 *
US-PATENT-CLASS-310-11 ..... c 44 N83-28573 *
US-PATENT-CLASS-310-11 ..... c 27 N91-14489 *
US-PATENT-CLASS-310-12 ..... c 33 N82-24421 *
US-PATENT-CLASS-310-12 ..... c 37 N83-32067 *
US-PATENT-CLASS-310-153 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-154 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-154 ..... c 35 N84-28017 *

US-PATENT-CLASS-310-15 ..... c 09 N72-25255 *
US-PATENT-CLASS-310-15 ..... c 44 N83-28574 *
US-PATENT-CLASS-310-15 ..... c 33 N87-23904 *
US-PATENT-CLASS-310-168 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-168 ..... c 33 N77-26387 *
US-PATENT-CLASS-310-171 ..... c 35 N84-28017 *
US-PATENT-CLASS-310-178 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-20 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-22 ..... c 31 N85-21404 *
US-PATENT-CLASS-310-231 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-265 ..... c 33 N92-15331 *
US-PATENT-CLASS-310-269 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-26 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-26 ..... c 33 N92-15331 *
US-PATENT-CLASS-310-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-310-300 ..... c 71 N84-23233 *
US-PATENT-CLASS-310-306 ..... c 33 N80-18287 *
US-PATENT-CLASS-310-306 ..... c 44 N83-32175 *
US-PATENT-CLASS-310-306 ..... c 34 N85-29179 *
US-PATENT-CLASS-310-306 ..... c 37 N87-23970 *
US-PATENT-CLASS-310-308 ..... c 33 N92-22042 *
US-PATENT-CLASS-310-309 ..... c 33 N92-22042 *
US-PATENT-CLASS-310-30 ..... c 44 N80-29834 *
US-PATENT-CLASS-310-30 ..... c 33 N87-23904 *
US-PATENT-CLASS-310-311 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-317 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-319 ..... c 33 N80-23559 *
US-PATENT-CLASS-310-322 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-323 ..... c 71 N91-14808 *
US-PATENT-CLASS-310-324 ..... c 33 N86-20671 *
US-PATENT-CLASS-310-325 ..... c 71 N91-14808 *
US-PATENT-CLASS-310-326 ..... c 38 N79-14398 *
US-PATENT-CLASS-310-327 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-330 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-331 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-332 ..... c 76 N83-34796 *
US-PATENT-CLASS-310-334 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-334 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-334 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-334 ..... c 71 N91-14808 *
US-PATENT-CLASS-310-336 ..... c 38 N79-14398 *
US-PATENT-CLASS-310-338 ..... c 35 N89-14407 *
US-PATENT-CLASS-310-339 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-340 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-360 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-366 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-4A ..... c 37 N77-19458 *
US-PATENT-CLASS-310-4R ..... c 33 N74-27683 *
US-PATENT-CLASS-310-4R ..... c 73 N77-18891 *
US-PATENT-CLASS-310-40 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-42 ..... c 14 N72-22439 *
US-PATENT-CLASS-310-46 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-4 ..... c 09 N69-21313 * #
US-PATENT-CLASS-310-4 ..... c 03 N69-39898 * #
US-PATENT-CLASS-310-4 ..... c 09 N69-39929 * #
US-PATENT-CLASS-310-4 ..... c 03 N70-34134 *
US-PATENT-CLASS-310-4 ..... c 03 N71-11055 *
US-PATENT-CLASS-310-4 ..... c 22 N71-23599 *
US-PATENT-CLASS-310-4 ..... c 09 N71-24807 *
US-PATENT-CLASS-310-4 ..... c 33 N71-27862 *
US-PATENT-CLASS-310-4 ..... c 09 N71-28421 *
US-PATENT-CLASS-310-4 ..... c 09 N72-25260 *
US-PATENT-CLASS-310-4 ..... c 09 N72-27228 *
US-PATENT-CLASS-310-4 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-4 ..... c 36 N75-30524 *
US-PATENT-CLASS-310-4 ..... c 44 N76-16612 *
US-PATENT-CLASS-310-51 ..... c 15 N71-27169 *
US-PATENT-CLASS-310-52 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-54 ..... c 09 N71-20446 *
US-PATENT-CLASS-310-5 ..... c 03 N70-35408 *
US-PATENT-CLASS-310-68B ..... c 35 N84-28017 *
US-PATENT-CLASS-310-68 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-77 ..... c 37 N85-30333 *
US-PATENT-CLASS-310-8.2 ..... c 35 N76-15432 *
US-PATENT-CLASS-310-8.5 ..... c 14 N71-22993 *
US-PATENT-CLASS-310-800 ..... c 76 N83-34796 *
US-PATENT-CLASS-310-80 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-82 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-82 ..... c 37 N92-33634 *
US-PATENT-CLASS-310-83 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-83 ..... c 33 N92-15331 *
US-PATENT-CLASS-310-9.1 ..... c 15 N71-21311 *
US-PATENT-CLASS-310-90.5 ..... c 37 N87-17038 *
US-PATENT-CLASS-310-90.5 ..... c 37 N91-21539 *
US-PATENT-CLASS-310-90.5 ..... c 70 N91-21824 *
US-PATENT-CLASS-310-90.5 ..... c 37 N92-29099 *
US-PATENT-CLASS-310-93 ..... c 15 N71-17652 *
US-PATENT-CLASS-310-93 ..... c 37 N85-30333 *
US-PATENT-CLASS-311-37 ..... c 35 N75-29380 *
US-PATENT-CLASS-312-196 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-1 ..... c 05 N71-23080 *
US-PATENT-CLASS-312-1 ..... c 05 N73-20137 *
US-PATENT-CLASS-312-1 ..... c 37 N74-20063 *
US-PATENT-CLASS-312-208 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-209 ..... c 37 N74-18123 *
US-PATENT-CLASS-312-257 ..... c 31 N72-22874 *
US-PATENT-CLASS-312-296 ..... c 09 N71-18600 *
US-PATENT-CLASS-312-300 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-319 ..... c 37 N79-33467 *
US-PATENT-CLASS-312-7.2 ..... c 54 N88-24163 *
US-PATENT-CLASS-313-DIG.8 .... c 28 N73-24783 *
US-PATENT-CLASS-313-104 ..... c 14 N73-32317 *
US-PATENT-CLASS-313-106 ..... c 24 N83-10117 *
US-PATENT-CLASS-313-106 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-106 ..... c 31 N86-32587 *
US-PATENT-CLASS-313-107 ..... c 24 N83-10117 *
US-PATENT-CLASS-313-107 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-107 ..... c 31 N86-32587 *
US-PATENT-CLASS-313-109.5 .... c 09 N71-33519 *
US-PATENT-CLASS-313-11.5 ..... c 28 N70-39925 *
US-PATENT-CLASS-313-110 ..... c 09 N71-12521 *
US-PATENT-CLASS-313-131A .... c 33 N85-21491 *
US-PATENT-CLASS-313-146 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-153 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-156 ..... c 25 N70-34661 *
US-PATENT-CLASS-313-156 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-161 ..... c 25 N73-25760 *
US-PATENT-CLASS-313-161 ..... c 09 N73-30181 *
US-PATENT-CLASS-313-161 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-175 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-175 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-176 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-180 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-180 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-182 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-184 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-184 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-184 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-186 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-209 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-212 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-217 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-217 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-218 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-224 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-224 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-224 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-224 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-22 ..... c 09 N71-26787 *
US-PATENT-CLASS-313-22 ..... c 31 N78-17237 *
US-PATENT-CLASS-313-22 ..... c 31 N78-25256 *
US-PATENT-CLASS-313-22 ..... c 34 N79-20336 *
US-PATENT-CLASS-313-230 ..... c 28 N71-28850 *
US-PATENT-CLASS-313-230 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-230 ..... c 20 N77-20162 *
US-PATENT-CLASS-313-231.3 .... c 20 N77-20162 *
US-PATENT-CLASS-313-231.3 .... c 75 N78-27913 *
US-PATENT-CLASS-313-231.4 .... c 20 N77-10148 *
US-PATENT-CLASS-313-231.4 .... c 72 N80-33186 *
US-PATENT-CLASS-313-231 ..... c 06 N69-39889 * #
US-PATENT-CLASS-313-231 ..... c 09 N71-23190 *
US-PATENT-CLASS-313-231 ..... c 09 N71-33519 *
US-PATENT-CLASS-313-231 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-231 ..... c 25 N72-32688 *
US-PATENT-CLASS-313-231 ..... c 28 N73-24783 *
US-PATENT-CLASS-313-231 ..... c 25 N73-25760 *
US-PATENT-CLASS-313-236 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-237 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-237 ..... c 33 N87-28832 *
US-PATENT-CLASS-313-240 ..... c 20 N77-10148 *
US-PATENT-CLASS-313-250 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-271 ..... c 25 N71-20747 *
US-PATENT-CLASS-313-278 ..... c 33 N87-28832 *
US-PATENT-CLASS-313-306 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-309 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-309 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-311 ..... c 73 N77-18891 *
US-PATENT-CLASS-313-32 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-32 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-336 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-338 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-348 ..... c 35 N82-24471 *
US-PATENT-CLASS-313-351 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-351 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-352 ..... c 09 N71-22987 *
US-PATENT-CLASS-313-355 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-356 ..... c 14 N72-29464 *
US-PATENT-CLASS-313-359.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-35 ..... c 34 N79-20336 *
US-PATENT-CLASS-313-360 ..... c 20 N77-20162 *
US-PATENT-CLASS-313-361.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-361 ..... c 20 N77-10148 *
US-PATENT-CLASS-313-362.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-362 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-362 ..... c 72 N80-33186 *
US-PATENT-CLASS-313-363 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-442 ..... c 74 N78-18905 *
US-PATENT-CLASS-313-44 ..... c 15 N69-24319 * #
US-PATENT-CLASS-313-502 ..... c 76 N91-21911 *
US-PATENT-CLASS-313-502 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-503 ..... c 76 N91-21911 *
US-PATENT-CLASS-313-503 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-505 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-506 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-506 ..... c 76 N91-21911 *
US-PATENT-CLASS-313-506 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-509 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-509 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-60 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-61S ..... c 73 N74-26767 *
US-PATENT-CLASS-313-61S ..... c 37 N78-13436 *
US-PATENT-CLASS-313-63 ..... c 28 N70-41576 *
US-PATENT-CLASS-313-63 ..... c 09 N71-10618 *
US-PATENT-CLASS-313-63 ..... c 28 N71-26781 *
US-PATENT-CLASS-313-63 ..... c 28 N73-24783 *
US-PATENT-CLASS-313-63 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-63 ..... c 75 N75-13625 *
US-PATENT-CLASS-313-7 ..... c 14 N71-18482 *
US-PATENT-CLASS-313-7 ..... c 14 N73-32324 *
US-PATENT-CLASS-313-93 ..... c 35 N74-26949 *
US-PATENT-CLASS-313-93 ..... c 35 N82-24471 *
US-PATENT-CLASS-313-94 ..... c 33 N76-31409 *
US-PATENT-CLASS-313-94 ..... c 74 N78-18905 *
US-PATENT-CLASS-314-129 ..... c 15 N69-24266 * #
US-PATENT-CLASS-315-DIG.2 .... c 16 N73-32391 *
US-PATENT-CLASS-315-101 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-108 ..... c 09 N71-33519 *
US-PATENT-CLASS-315-108 ..... c 33 N77-21316 *
US-PATENT-CLASS-315-108 ..... c 36 N78-17366 *
US-PATENT-CLASS-315-10 ..... c 33 N74-21850 *
US-PATENT-CLASS-315-10 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-110 ..... c 33 N77-21316 *
US-PATENT-CLASS-315-111.2 .... c 75 N78-27913 *
US-PATENT-CLASS-315-111.31 .. c 33 N85-21491 *
US-PATENT-CLASS-315-111.3 .... c 20 N77-10148 *
US-PATENT-CLASS-315-111.3 .... c 20 N77-20162 *
US-PATENT-CLASS-315-111.41 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111.6 .... c 75 N76-14931 *
US-PATENT-CLASS-315-111.6 .... c 20 N77-20162 *
US-PATENT-CLASS-315-111.71 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111.81 .. c 33 N85-21491 *
US-PATENT-CLASS-315-111.81 .. c 33 N87-21234 *
US-PATENT-CLASS-315-111.81 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111 ..... c 25 N70-33267 *
US-PATENT-CLASS-315-111 ..... c 25 N70-41628 *
US-PATENT-CLASS-315-111 ..... c 25 N71-15562 *
US-PATENT-CLASS-315-111 ..... c 24 N71-16213 *
US-PATENT-CLASS-315-111 ..... c 25 N71-21693 *
US-PATENT-CLASS-315-111 ..... c 28 N71-26781 *
US-PATENT-CLASS-315-111 ..... c 25 N71-29184 *
US-PATENT-CLASS-315-111 ..... c 09 N71-33519 *
US-PATENT-CLASS-315-111 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-111 ..... c 25 N72-32688 *
US-PATENT-CLASS-315-111 ..... c 14 N73-30391 *
US-PATENT-CLASS-315-111 ..... c 75 N75-13625 *
US-PATENT-CLASS-315-111 ..... c 33 N75-29318 *
US-PATENT-CLASS-315-111 ..... c 37 N75-29426 *
US-PATENT-CLASS-315-11 ..... c 33 N74-21850 *
US-PATENT-CLASS-315-12 ..... c 33 N74-21850 *
US-PATENT-CLASS-315-135 ..... c 09 N72-25250 *
US-PATENT-CLASS-315-145 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-151 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-153 ..... c 14 N73-16483 *
US-PATENT-CLASS-315-153 ..... c 74 N79-12890 *
US-PATENT-CLASS-315-156 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-158 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-160 ..... c 09 N71-12540 *
US-PATENT-CLASS-315-169R .... c 23 N73-13660 *
US-PATENT-CLASS-315-169R .... c 36 N75-19652 *
US-PATENT-CLASS-315-169TV .. c 23 N73-13660 *
US-PATENT-CLASS-315-172 ..... c 33 N88-24862 *
US-PATENT-CLASS-315-173 ..... c 33 N88-24862 *
US-PATENT-CLASS-315-176 ..... c 33 N77-28385 *
US-PATENT-CLASS-315-18 ..... c 32 N74-20813 *
US-PATENT-CLASS-315-18 ..... c 33 N75-19517 *
US-PATENT-CLASS-315-200-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-208 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-209CD .. c 37 N79-11405 *
US-PATENT-CLASS-315-209SC .. c 37 N79-11405 *
US-PATENT-CLASS-315-211 ..... c 33 N74-20859 *
US-PATENT-CLASS-315-22R ..... c 10 N72-31273 *
US-PATENT-CLASS-315-224 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-225 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-227-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-228 ..... c 33 N74-20859 *
US-PATENT-CLASS-315-22 ..... c 10 N72-20225 *
US-PATENT-CLASS-315-22 ..... c 32 N74-20813 *
US-PATENT-CLASS-315-22 ..... c 33 N78-17293 *
US-PATENT-CLASS-315-237 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-241-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-241R .... c 37 N79-11405 *
US-PATENT-CLASS-315-241R .... c 33 N83-34189 *
US-PATENT-CLASS-315-241 ..... c 09 N71-13518 *
US-PATENT-CLASS-315-248 ..... c 09 N73-30181 *
US-PATENT-CLASS-315-24 ..... c 08 N71-20571 *
US-PATENT-CLASS-315-254 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-255 ..... c 33 N88-23942 *

US-PATENT-CLASS-315-258 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-25 ..... c 10 N72-20225 *
US-PATENT-CLASS-315-260 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-26 ..... c 09 N71-23189 *
US-PATENT-CLASS-315-276 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-277 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-297 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-3.5 ..... c 09 N73-13208 *
US-PATENT-CLASS-315-3.5 ..... c 33 N79-10339 *
US-PATENT-CLASS-315-3.5 ..... c 33 N82-26568 *
US-PATENT-CLASS-315-3.5 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-3.5 ..... c 37 N85-33489 *
US-PATENT-CLASS-315-3.5 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-3.5 ..... c 33 N90-22724 *
US-PATENT-CLASS-315-3.6 ..... c 33 N79-10339 *
US-PATENT-CLASS-315-3.6 ..... c 33 N82-24415 *
US-PATENT-CLASS-315-3.6 ..... c 33 N82-26568 *
US-PATENT-CLASS-315-3.6 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-3.6 ..... c 33 N84-27974 *
US-PATENT-CLASS-315-3.6 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-30R ..... c 10 N72-31273 *
US-PATENT-CLASS-315-307 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-30 ..... c 33 N75-27250 *
US-PATENT-CLASS-315-310 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-311 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-324 ..... c 09 N73-30181 *
US-PATENT-CLASS-315-326 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-334 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-344 ..... c 33 N77-21315 *
US-PATENT-CLASS-315-349 ..... c 09 N72-25250 *
US-PATENT-CLASS-315-356 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-358 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-367 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-369 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-36 ..... c 10 N72-27246 *
US-PATENT-CLASS-315-387 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-39.3 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-39.3 ..... c 33 N84-27974 *
US-PATENT-CLASS-315-39.3 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-3 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-3 ..... c 33 N90-22724 *
US-PATENT-CLASS-315-4 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.35 ..... c 33 N74-10195 *
US-PATENT-CLASS-315-5.35 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.38 ..... c 09 N73-13208 *
US-PATENT-CLASS-315-5.38 ..... c 33 N74-10195 *
US-PATENT-CLASS-315-5.38 ..... c 33 N82-24415 *
US-PATENT-CLASS-315-5.38 ..... c 24 N83-10117 *
US-PATENT-CLASS-315-5.38 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.38 ..... c 70 N84-28565 *
US-PATENT-CLASS-315-5.38 ..... c 37 N85-33489 *
US-PATENT-CLASS-315-5.38 ..... c 31 N86-32587 *
US-PATENT-CLASS-315-5 ..... c 33 N83-31952 *
US-PATENT-CLASS-317-DIG.3 .... c 10 N71-26334 *
US-PATENT-CLASS-317-DIG.6 .... c 10 N73-26228 *
US-PATENT-CLASS-317-100 ..... c 10 N71-28783 *
US-PATENT-CLASS-317-100 ..... c 10 N73-25243 *
US-PATENT-CLASS-317-101A .... c 09 N72-33205 *
US-PATENT-CLASS-317-101A .... c 23 N73-13660 *
US-PATENT-CLASS-317-101DH .. c 15 N72-22486 *
US-PATENT-CLASS-317-101DH .. c 10 N73-25243 *
US-PATENT-CLASS-317-101 ..... c 09 N71-26133 *
US-PATENT-CLASS-317-117 ..... c 15 N72-22486 *
US-PATENT-CLASS-317-120 ..... c 15 N72-22486 *
US-PATENT-CLASS-317-122 ..... c 15 N71-18701 *
US-PATENT-CLASS-317-123 ..... c 09 N71-24892 *
US-PATENT-CLASS-317-140 ..... c 09 N70-34502 *
US-PATENT-CLASS-317-148.5 .... c 10 N71-23271 *
US-PATENT-CLASS-317-148.5 .... c 09 N71-24892 *
US-PATENT-CLASS-317-153 ..... c 10 N71-26334 *
US-PATENT-CLASS-317-155.5 .... c 09 N71-29008 *
US-PATENT-CLASS-317-157.5 .... c 15 N69-21472 * #
US-PATENT-CLASS-317-158 ..... c 15 N73-28516 *
US-PATENT-CLASS-317-158 ..... c 26 N73-28710 *
US-PATENT-CLASS-317-158 ..... c 15 N73-32361 *
US-PATENT-CLASS-317-16 ..... c 09 N69-39897 * #
US-PATENT-CLASS-317-16 ..... c 33 N74-17929 *
US-PATENT-CLASS-317-2D ..... c 33 N77-10429 *
US-PATENT-CLASS-317-20 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-230 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-230 ..... c 26 N72-28761 *
US-PATENT-CLASS-317-231 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-234A .... c 15 N73-14469 *
US-PATENT-CLASS-317-234D .... c 14 N72-31446 *
US-PATENT-CLASS-317-234E .... c 33 N74-12951 *
US-PATENT-CLASS-317-234F .... c 33 N74-12951 *
US-PATENT-CLASS-317-234G .... c 14 N72-31446 *
US-PATENT-CLASS-317-234G .... c 15 N73-14469 *
US-PATENT-CLASS-317-234G .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234J .... c 26 N72-25679 *
US-PATENT-CLASS-317-234L .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M .... c 33 N74-12951 *
US-PATENT-CLASS-317-234N .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234N .... c 33 N74-12951 *
US-PATENT-CLASS-317-234R .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234R .... c 33 N74-12951 *
US-PATENT-CLASS-317-234V .... c 26 N72-21701 *
US-PATENT-CLASS-317-234V .... c 09 N73-15235 *
US-PATENT-CLASS-317-234 ..... c 14 N69-23191 * #
US-PATENT-CLASS-317-234 ..... c 09 N69-27422 * #
US-PATENT-CLASS-317-234 ..... c 26 N71-18064 *
US-PATENT-CLASS-317-235AG . c 09 N73-15235 *
US-PATENT-CLASS-317-235AJ ... c 26 N72-25679 *
US-PATENT-CLASS-317-235AJ ... c 09 N72-33205 *
US-PATENT-CLASS-317-235AM . c 09 N73-19235 *
US-PATENT-CLASS-317-235A .... c 26 N72-25679 *
US-PATENT-CLASS-317-235A .... c 09 N72-33205 *
US-PATENT-CLASS-317-235H .... c 35 N75-13213 *
US-PATENT-CLASS-317-235K .... c 09 N73-15235 *
US-PATENT-CLASS-317-235M .... c 14 N72-31446 *
US-PATENT-CLASS-317-235N .... c 09 N73-19235 *
US-PATENT-CLASS-317-235N .... c 35 N74-15090 *
US-PATENT-CLASS-317-235R .... c 26 N72-21701 *
US-PATENT-CLASS-317-235R .... c 26 N72-25679 *
US-PATENT-CLASS-317-235R .... c 14 N72-31446 *
US-PATENT-CLASS-317-235R .... c 09 N73-19235 *
US-PATENT-CLASS-317-235R .... c 09 N73-32112 *
US-PATENT-CLASS-317-235T .... c 09 N73-19235 *
US-PATENT-CLASS-317-235UA .. c 09 N73-19235 *
US-PATENT-CLASS-317-235WW c 09 N73-32112 *
US-PATENT-CLASS-317-235 ..... c 09 N69-24318 * #
US-PATENT-CLASS-317-235 ..... c 09 N72-33205 *
US-PATENT-CLASS-317-238 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-245 ..... c 33 N79-21265 *
US-PATENT-CLASS-317-246 ..... c 14 N69-21541 * #
US-PATENT-CLASS-317-246 ..... c 33 N76-21390 *
US-PATENT-CLASS-317-246 ..... c 35 N76-22509 *
US-PATENT-CLASS-317-247 ..... c 14 N72-24477 *
US-PATENT-CLASS-317-258 ..... c 09 N71-13522 *
US-PATENT-CLASS-317-258 ..... c 33 N76-15373 *
US-PATENT-CLASS-317-261 ..... c 26 N72-28761 *
US-PATENT-CLASS-317-261 ..... c 33 N76-15373 *
US-PATENT-CLASS-317-31 ..... c 09 N71-12526 *
US-PATENT-CLASS-317-31 ..... c 10 N71-23543 *
US-PATENT-CLASS-317-31 ..... c 33 N74-17929 *
US-PATENT-CLASS-317-31 ..... c 33 N77-14333 *
US-PATENT-CLASS-317-33SC .... c 33 N74-14956 *
US-PATENT-CLASS-317-33 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-33 ..... c 09 N71-27001 *
US-PATENT-CLASS-317-33 ..... c 10 N71-27366 *
US-PATENT-CLASS-317-33 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-43 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-46 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-47 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-48 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-54 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-60 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-9 ..... c 09 N71-22796 *
US-PATENT-CLASS-317-9 ..... c 09 N71-27001 *
US-PATENT-CLASS-318-107 ..... c 44 N87-21410 *
US-PATENT-CLASS-318-116 ..... c 71 N79-20827 *
US-PATENT-CLASS-318-116 ..... c 71 N84-23233 *
US-PATENT-CLASS-318-116 ..... c 33 N87-28833 *
US-PATENT-CLASS-318-135 ..... c 33 N82-24421 *
US-PATENT-CLASS-318-135 ..... c 37 N91-21539 *
US-PATENT-CLASS-318-137 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-138 ..... c 09 N71-10677 *
US-PATENT-CLASS-318-138 ..... c 14 N71-17585 *
US-PATENT-CLASS-318-138 ..... c 10 N71-18772 *
US-PATENT-CLASS-318-138 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-138 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-138 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-138 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-15 ..... c 37 N80-32716 *
US-PATENT-CLASS-318-161 ..... c 44 N87-21410 *
US-PATENT-CLASS-318-167 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-176 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-183 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-20.105 .. c 08 N71-27057 *
US-PATENT-CLASS-318-200 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-227 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-227 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-227 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-227 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-22 ..... c 15 N71-17694 *
US-PATENT-CLASS-318-230 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-230 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-230 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-230 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-231 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-231 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-254 ..... c 09 N73-32107 *
US-PATENT-CLASS-318-254 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-254 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-254 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-254 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-257 ..... c 10 N71-18724 *
US-PATENT-CLASS-318-258 ..... c 09 N71-26092 *
US-PATENT-CLASS-318-260 ..... c 09 N70-38712 *
US-PATENT-CLASS-318-265 ..... c 15 N71-24895 *
US-PATENT-CLASS-318-267 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-308 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-314 ..... c 10 N71-20448 *
US-PATENT-CLASS-318-314 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-317 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-318 ..... c 09 N71-24805 *
US-PATENT-CLASS-318-318 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-31 ..... c 15 N71-28952 *
US-PATENT-CLASS-318-327 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-328 ..... c 09 N73-32107 *
US-PATENT-CLASS-318-331 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-341 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-341 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-345 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-376 ..... c 10 N71-16030 *
US-PATENT-CLASS-318-376 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-382 ..... c 15 N71-24695 *
US-PATENT-CLASS-318-434 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-438 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-439 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-439 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-468 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-46 ..... c 44 N85-21769 *
US-PATENT-CLASS-318-470 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-489 ..... c 02 N73-19004 *
US-PATENT-CLASS-318-48 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-504 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-561 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-561 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-561 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-564 ..... c 60 N82-29013 *
US-PATENT-CLASS-318-567 ..... c 63 N92-33019 *
US-PATENT-CLASS-318-568.11 .. c 63 N91-31885 *
US-PATENT-CLASS-318-568.11 .. c 63 N92-33019 *
US-PATENT-CLASS-318-568.16 .. c 37 N91-21542 *
US-PATENT-CLASS-318-568.19 .. c 63 N92-33019 *
US-PATENT-CLASS-318-568.1 .... c 33 N91-31528 *
US-PATENT-CLASS-318-568.20 .. c 37 N91-21542 *
US-PATENT-CLASS-318-568.21 .. c 37 N91-21542 *
US-PATENT-CLASS-318-568.2 .... c 33 N91-31528 *
US-PATENT-CLASS-318-571 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-573 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-573 ..... c 33 N91-31528 *
US-PATENT-CLASS-318-573 ..... c 63 N91-31885 *
US-PATENT-CLASS-318-576 ..... c 09 N72-21246 *
US-PATENT-CLASS-318-577 ..... c 37 N86-21850 *
US-PATENT-CLASS-318-580 ..... c 08 N74-10942 *
US-PATENT-CLASS-318-580 ..... c 04 N82-23231 *
US-PATENT-CLASS-318-584 ..... c 08 N81-24106 *
US-PATENT-CLASS-318-584 ..... c 08 N86-27288 *
US-PATENT-CLASS-318-585 ..... c 08 N79-23097 *
US-PATENT-CLASS-318-587 ..... c 35 N84-33769 *
US-PATENT-CLASS-318-594 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-599 ..... c 10 N71-24861 *
US-PATENT-CLASS-318-602 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-603 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-605 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-608 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-611 ..... c 37 N85-30333 *
US-PATENT-CLASS-318-615 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-616 ..... c 08 N79-23097 *
US-PATENT-CLASS-318-618 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-620 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-621 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-622 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-628 ..... c 08 N74-10942 *
US-PATENT-CLASS-318-628 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-632 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-636 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-640 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-640 ..... c 54 N75-27758 *
US-PATENT-CLASS-318-640 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-640 ..... c 37 N81-27519 *
US-PATENT-CLASS-318-640 ..... c 08 N86-27288 *
US-PATENT-CLASS-318-646 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-648 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-648 ..... c 39 N93-13420 *
US-PATENT-CLASS-318-649 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-649 ..... c 39 N93-13420 *
US-PATENT-CLASS-318-653 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-661 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-663 ..... c 37 N81-33483 *
US-PATENT-CLASS-318-663 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-664 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-675 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-675 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-685 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-729 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-729 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-729 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-729 ..... c 33 N84-22886 *
US-PATENT-CLASS-318-729 ..... c 33 N84-27975 *
US-PATENT-CLASS-318-729 ..... c 33 N84-33661 *
US-PATENT-CLASS-318-729 ..... c 44 N85-21769 *
US-PATENT-CLASS-318-729 ..... c 33 N85-22877 *
US-PATENT-CLASS-318-798 ..... c 33 N83-34190 *

US-PATENT-CLASS-318-798 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-798 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-798 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-799 ..... c 33 N81-27395 *
US-PATENT-CLASS-318-799 ..... c 33 N84-16455 *
US-PATENT-CLASS-318-800 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-802 ..... c 33 N84-33661 *
US-PATENT-CLASS-318-803 ..... c 33 N83-10345 *
US-PATENT-CLASS-318-803 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-805 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-806 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-806 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-806 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-806 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-809 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-809 ..... c 33 N84-27975 *
US-PATENT-CLASS-318-810 ..... c 33 N81-27395 *
US-PATENT-CLASS-318-810 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-812 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-812 ..... c 33 N84-22886 *
US-PATENT-CLASS-318-812 ..... c 33 N85-22877 *
US-PATENT-CLASS-318-830 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-8 ..... c 37 N86-27629 *
US-PATENT-CLASS-32-28 ..... c 05 N73-27062 *
US-PATENT-CLASS-32-58 ..... c 05 N73-27062 *
US-PATENT-CLASS-320-13 ..... c 03 N71-29129 *
US-PATENT-CLASS-320-13 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-15 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-15 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-17 ..... c 03 N71-24605 *
US-PATENT-CLASS-320-18 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-21 ..... c 44 N76-18643 *
US-PATENT-CLASS-320-22 ..... c 44 N76-18643 *
US-PATENT-CLASS-320-23 ..... c 03 N71-19438 *
US-PATENT-CLASS-320-2 ..... c 44 N77-14581 *
US-PATENT-CLASS-320-32 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-39 ..... c 03 N71-24719 *
US-PATENT-CLASS-320-39 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-40 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-48 ..... c 03 N72-25020 *
US-PATENT-CLASS-320-51 ..... c 33 N91-14537 *
US-PATENT-CLASS-320-53 ..... c 33 N78-17296 *
US-PATENT-CLASS-320-6 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-9 ..... c 44 N78-25531 *
US-PATENT-CLASS-321-1.5 ..... c 09 N73-32109 *
US-PATENT-CLASS-321-10 ..... c 09 N72-17154 *
US-PATENT-CLASS-321-11 ..... c 09 N69-39984 * #
US-PATENT-CLASS-321-11 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-11 ..... c 10 N73-26228 *
US-PATENT-CLASS-321-12 ..... c 10 N71-27366 *
US-PATENT-CLASS-321-13 ..... c 33 N77-14333 *
US-PATENT-CLASS-321-14 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-15 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-15 ..... c 33 N75-19522 *
US-PATENT-CLASS-321-18 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-18 ..... c 09 N72-25251 *
US-PATENT-CLASS-321-18 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-18 ..... c 33 N74-11049 *
US-PATENT-CLASS-321-19 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-19 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-19 ..... c 33 N77-10428 *
US-PATENT-CLASS-321-25 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-2 ..... c 03 N69-21330 * #
US-PATENT-CLASS-321-2 ..... c 03 N69-25146 * #
US-PATENT-CLASS-321-2 ..... c 03 N71-12255 *
US-PATENT-CLASS-321-2 ..... c 09 N71-23188 *
US-PATENT-CLASS-321-2 ..... c 03 N71-23239 *
US-PATENT-CLASS-321-2 ..... c 10 N71-26085 *
US-PATENT-CLASS-321-2 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-2 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25249 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25251 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25253 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25254 *
US-PATENT-CLASS-321-2 ..... c 33 N74-11049 *
US-PATENT-CLASS-321-2 ..... c 33 N77-10428 *
US-PATENT-CLASS-321-45C ..... c 10 N73-26228 *
US-PATENT-CLASS-321-45ER .... c 09 N72-25252 *
US-PATENT-CLASS-321-45R ..... c 09 N72-25252 *
US-PATENT-CLASS-321-45R ..... c 09 N72-25254 *
US-PATENT-CLASS-321-45R ..... c 33 N74-22864 *
US-PATENT-CLASS-321-45S ..... c 33 N74-11049 *
US-PATENT-CLASS-321-45 ..... c 09 N71-24800 *
US-PATENT-CLASS-321-45 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-47 ..... c 09 N71-33109 *
US-PATENT-CLASS-321-47 ..... c 09 N72-25253 *
US-PATENT-CLASS-321-48 ..... c 12 N71-20896 *
US-PATENT-CLASS-321-5 ..... c 08 N71-18752 *
US-PATENT-CLASS-321-60 ..... c 14 N71-23174 *
US-PATENT-CLASS-321-61 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-64 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-69 ..... c 10 N71-26414 *
US-PATENT-CLASS-321-8R ..... c 35 N74-18090 *
US-PATENT-CLASS-321-9 ..... c 10 N71-25139 *
US-PATENT-CLASS-322-2R ..... c 07 N83-20944 *
US-PATENT-CLASS-322-25 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-29 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-29 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-322-32 ..... c 09 N71-27364 *
US-PATENT-CLASS-322-35 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-47 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-47 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-95 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-95 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-96 ..... c 33 N77-26387 *
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-21243 *
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-25249 *
US-PATENT-CLASS-323-DIG.1 .... c 33 N74-11049 *
US-PATENT-CLASS-323-DIG.1 .... c 33 N77-10428 *
US-PATENT-CLASS-323-106 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-122 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-128 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-15 ..... c 20 N79-20179 *
US-PATENT-CLASS-323-15 ..... c 44 N80-14472 *
US-PATENT-CLASS-323-17 ..... c 09 N72-25249 *
US-PATENT-CLASS-323-17 ..... c 33 N77-10428 *
US-PATENT-CLASS-323-18 ..... c 33 N78-17295 *
US-PATENT-CLASS-323-19 ..... c 08 N72-31226 *
US-PATENT-CLASS-323-19 ..... c 33 N78-17296 *
US-PATENT-CLASS-323-19 ..... c 44 N80-14472 *
US-PATENT-CLASS-323-20 ..... c 14 N71-27407 *
US-PATENT-CLASS-323-20 ..... c 20 N79-20179 *
US-PATENT-CLASS-323-22T ..... c 09 N72-21243 *
US-PATENT-CLASS-323-22T ..... c 09 N72-25249 *
US-PATENT-CLASS-323-22T ..... c 33 N77-10428 *
US-PATENT-CLASS-323-22T ..... c 33 N79-23345 *
US-PATENT-CLASS-323-22 ..... c 09 N71-21449 *
US-PATENT-CLASS-323-22 ..... c 09 N71-23316 *
US-PATENT-CLASS-323-23 ..... c 33 N77-10428 *
US-PATENT-CLASS-323-243 ..... c 33 N84-16455 *
US-PATENT-CLASS-323-246 ..... c 33 N84-16455 *
US-PATENT-CLASS-323-269 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-300 ..... c 33 N84-27975 *
US-PATENT-CLASS-323-303 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-311 ..... c 33 N91-27479 *
US-PATENT-CLASS-323-312 ..... c 33 N91-27479 *
US-PATENT-CLASS-323-350 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-354 ..... c 33 N90-19492 *
US-PATENT-CLASS-323-38 ..... c 09 N72-21243 *
US-PATENT-CLASS-323-44F ..... c 33 N79-17133 *
US-PATENT-CLASS-323-48 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-48 ..... c 09 N72-25262 *
US-PATENT-CLASS-323-4 ..... c 33 N78-17294 *
US-PATENT-CLASS-323-56 ..... c 10 N71-22961 *
US-PATENT-CLASS-323-56 ..... c 09 N71-24893 *
US-PATENT-CLASS-323-56 ..... c 09 N72-22196 *
US-PATENT-CLASS-323-60 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-82 ..... c 09 N72-25262 *
US-PATENT-CLASS-323-89C ..... c 09 N72-22196 *
US-PATENT-CLASS-323-8 ..... c 10 N71-10578 *
US-PATENT-CLASS-323-901 ..... c 33 N84-33663 *
US-PATENT-CLASS-323-903 ..... c 33 N90-20320 *
US-PATENT-CLASS-323-93 ..... c 33 N77-31404 *
US-PATENT-CLASS-324-.5R ..... c 16 N73-13489 *
US-PATENT-CLASS-324-.5 ..... c 14 N71-20428 *
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-19520 *
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-25041 *
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26266 *
US-PATENT-CLASS-324-0.5 ..... c 36 N79-14362 *
US-PATENT-CLASS-324-102 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-102 ..... c 33 N74-17930 *
US-PATENT-CLASS-324-102 ..... c 33 N75-19521 *
US-PATENT-CLASS-324-102 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-102 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-103 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-106 ..... c 14 N70-38602 *
US-PATENT-CLASS-324-106 ..... c 08 N71-29138 *
US-PATENT-CLASS-324-107 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-112 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-113 ..... c 09 N70-41655 *
US-PATENT-CLASS-324-113 ..... c 33 N75-19521 *
US-PATENT-CLASS-324-113 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-113 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-115 ..... c 14 N71-26244 *
US-PATENT-CLASS-324-115 ..... c 10 N72-20222 *
US-PATENT-CLASS-324-115 ..... c 17 N91-14371 *
US-PATENT-CLASS-324-117 ..... c 14 N71-23037 *
US-PATENT-CLASS-324-117 ..... c 33 N89-29681 *
US-PATENT-CLASS-324-118 ..... c 33 N74-17930 *
US-PATENT-CLASS-324-119 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-120 ..... c 14 N71-19431 *
US-PATENT-CLASS-324-120 ..... c 09 N71-23021 *
US-PATENT-CLASS-324-123C .... c 33 N79-22373 *
US-PATENT-CLASS-324-123R .... c 09 N72-11225 *
US-PATENT-CLASS-324-127 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-127 ..... c 33 N89-29681 *
US-PATENT-CLASS-324-130 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-132 ..... c 09 N71-13530 *
US-PATENT-CLASS-324-132 ..... c 10 N72-20222 *
US-PATENT-CLASS-324-133 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-133 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-133 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-133 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-133 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-158-D ... c 33 N87-22894 *
US-PATENT-CLASS-324-158-R ... c 33 N87-22894 *
US-PATENT-CLASS-324-158D .... c 15 N72-25457 *
US-PATENT-CLASS-324-158D .... c 76 N76-20994 *
US-PATENT-CLASS-324-158D .... c 44 N80-18551 *
US-PATENT-CLASS-324-158D .... c 76 N84-35112 * #
US-PATENT-CLASS-324-158D .... c 76 N85-30923 *
US-PATENT-CLASS-324-158F ..... c 33 N91-14552 *
US-PATENT-CLASS-324-158P ..... c 33 N91-14552 *
US-PATENT-CLASS-324-158R .... c 76 N76-20994 *
US-PATENT-CLASS-324-158R .... c 33 N85-30187 *
US-PATENT-CLASS-324-158T ..... c 15 N72-25457 *
US-PATENT-CLASS-324-158T ..... c 35 N75-12270 *
US-PATENT-CLASS-324-158T ..... c 76 N76-20994 *
US-PATENT-CLASS-324-158T ..... c 33 N80-14332 *
US-PATENT-CLASS-324-158T ..... c 76 N84-35112 * #
US-PATENT-CLASS-324-158 ..... c 09 N69-21926 * #
US-PATENT-CLASS-324-163 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-165 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-173 ..... c 35 N78-32396 *
US-PATENT-CLASS-324-174 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-181 ..... c 09 N71-24717 *
US-PATENT-CLASS-324-186 ..... c 09 N72-25257 *
US-PATENT-CLASS-324-186 ..... c 52 N74-12778 *
US-PATENT-CLASS-324-20R ..... c 09 N72-23172 *
US-PATENT-CLASS-324-20R ..... c 44 N79-12541 *
US-PATENT-CLASS-324-205 ..... c 70 N92-29130 *
US-PATENT-CLASS-324-207 ..... c 35 N78-32396 *
US-PATENT-CLASS-324-209 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-209 ..... c 39 N92-29155 *
US-PATENT-CLASS-324-209 ..... c 26 N93-14705 *
US-PATENT-CLASS-324-224 ..... c 38 N92-29154 *
US-PATENT-CLASS-324-226 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-226 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-226 ..... c 39 N92-28757 *
US-PATENT-CLASS-324-226 ..... c 38 N92-29154 *
US-PATENT-CLASS-324-226 ..... c 39 N92-29155 *
US-PATENT-CLASS-324-227 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-227 ..... c 39 N92-29155 *
US-PATENT-CLASS-324-227 ..... c 26 N93-14705 *
US-PATENT-CLASS-324-22 ..... c 44 N79-12541 *
US-PATENT-CLASS-324-232 ..... c 26 N93-14705 *
US-PATENT-CLASS-324-234 ..... c 27 N90-23544 *
US-PATENT-CLASS-324-235 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-235 ..... c 39 N92-28757 *
US-PATENT-CLASS-324-235 ..... c 39 N92-29155 *
US-PATENT-CLASS-324-236 ..... c 27 N90-23544 *
US-PATENT-CLASS-324-238 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-239 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-239 ..... c 39 N92-29101 *
US-PATENT-CLASS-324-239 ..... c 39 N92-29155 *
US-PATENT-CLASS-324-240 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-244 ..... c 70 N92-29130 *
US-PATENT-CLASS-324-249 ..... c 35 N78-32397 *
US-PATENT-CLASS-324-250 ..... c 35 N84-12444 *
US-PATENT-CLASS-324-261 ..... c 70 N92-29130 *
US-PATENT-CLASS-324-262 ..... c 35 N84-22928 *
US-PATENT-CLASS-324-262 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-262 ..... c 38 N92-29154 *
US-PATENT-CLASS-324-29.5 ..... c 03 N72-25020 *
US-PATENT-CLASS-324-29.5 ..... c 14 N73-30388 *
US-PATENT-CLASS-324-29.5 ..... c 44 N74-27519 *
US-PATENT-CLASS-324-30B ..... c 33 N76-19339 *
US-PATENT-CLASS-324-30R ..... c 14 N73-20478 *
US-PATENT-CLASS-324-329 ..... c 35 N90-22023 *
US-PATENT-CLASS-324-32 ..... c 14 N71-16014 *
US-PATENT-CLASS-324-32 ..... c 33 N75-18477 *
US-PATENT-CLASS-324-32 ..... c 33 N75-19522 *
US-PATENT-CLASS-324-32 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-33 ..... c 25 N69-39884 * #
US-PATENT-CLASS-324-33 ..... c 14 N70-35666 *
US-PATENT-CLASS-324-33 ..... c 24 N71-20518 *
US-PATENT-CLASS-324-33 ..... c 14 N71-21090 *
US-PATENT-CLASS-324-33 ..... c 14 N71-27090 *
US-PATENT-CLASS-324-34FL .... c 35 N74-21018 *
US-PATENT-CLASS-324-34R ..... c 26 N76-18257 *
US-PATENT-CLASS-324-34 ..... c 25 N71-16073 *
US-PATENT-CLASS-324-404 ..... c 44 N80-18551 *
US-PATENT-CLASS-324-40 ..... c 38 N74-15395 *
US-PATENT-CLASS-324-41 ..... c 10 N72-28240 *
US-PATENT-CLASS-324-427 ..... c 35 N85-21596 *
US-PATENT-CLASS-324-43R ..... c 35 N76-16390 *
US-PATENT-CLASS-324-43 ..... c 14 N69-27423 * #
US-PATENT-CLASS-324-43 ..... c 09 N70-40123 *
US-PATENT-CLASS-324-43 ..... c 14 N71-15962 *
US-PATENT-CLASS-324-43 ..... c 14 N71-26135 *
US-PATENT-CLASS-324-43 ..... c 14 N71-27325 *
US-PATENT-CLASS-324-457 ..... c 72 N84-28575 *
US-PATENT-CLASS-324-466 ..... c 33 N83-31954 *
US-PATENT-CLASS-324-51 ..... c 33 N80-26599 *

US-PATENT-CLASS-324-51 ..... c 33 N81-26359 *
US-PATENT-CLASS-324-51 ..... c 33 N82-24420 *
US-PATENT-CLASS-324-52 ..... c 14 N72-17325 *
US-PATENT-CLASS-324-52 ..... c 14 N73-28486 *
US-PATENT-CLASS-324-52 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-52 ..... c 33 N82-24420 *
US-PATENT-CLASS-324-54 ..... c 33 N75-18477 *
US-PATENT-CLASS-324-57DE .... c 33 N78-25319 *
US-PATENT-CLASS-324-57H ..... c 35 N77-32455 *
US-PATENT-CLASS-324-57PS .... c 35 N75-21582 *
US-PATENT-CLASS-324-57R ..... c 15 N72-21464 *
US-PATENT-CLASS-324-57R ..... c 14 N73-30388 *
US-PATENT-CLASS-324-57R ..... c 35 N74-18090 *
US-PATENT-CLASS-324-57R ..... c 33 N79-10338 *
US-PATENT-CLASS-324-57R ..... c 35 N79-14349 *
US-PATENT-CLASS-324-57SS .... c 33 N78-25319 *
US-PATENT-CLASS-324-57 ..... c 10 N71-16057 *
US-PATENT-CLASS-324-57 ..... c 09 N71-20569 *
US-PATENT-CLASS-324-58.5A ... c 33 N75-26245 *
US-PATENT-CLASS-324-58.5B ... c 43 N78-10529 *
US-PATENT-CLASS-324-58.5C ... c 33 N75-26245 *
US-PATENT-CLASS-324-58.5 ..... c 15 N71-17822 *
US-PATENT-CLASS-324-58.5 ..... c 25 N71-20563 *
US-PATENT-CLASS-324-58.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-58.5 ..... c 18 N71-27397 *
US-PATENT-CLASS-324-58A ..... c 33 N78-25319 *
US-PATENT-CLASS-324-59 ..... c 35 N77-32455 *
US-PATENT-CLASS-324-5 ..... c 14 N71-28991 *
US-PATENT-CLASS-324-60C ..... c 35 N75-12270 *
US-PATENT-CLASS-324-60C ..... c 76 N76-20994 *
US-PATENT-CLASS-324-601 ..... c 33 N91-14552 *
US-PATENT-CLASS-324-60 ..... c 33 N77-31404 *
US-PATENT-CLASS-324-61-R .... c 35 N87-22953 *
US-PATENT-CLASS-324-61-R .... c 35 N88-29149 *
US-PATENT-CLASS-324-61R ..... c 14 N72-24477 *
US-PATENT-CLASS-324-61R ..... c 35 N76-22509 *
US-PATENT-CLASS-324-61 ..... c 14 N69-39785 * #
US-PATENT-CLASS-324-61 ..... c 14 N70-36618 *
US-PATENT-CLASS-324-61 ..... c 14 N71-10797 *
US-PATENT-CLASS-324-61 ..... c 18 N71-27397 *
US-PATENT-CLASS-324-61 ..... c 14 N72-22442 *
US-PATENT-CLASS-324-62R ..... c 14 N73-30388 *
US-PATENT-CLASS-324-62 ..... c 33 N80-32650 *
US-PATENT-CLASS-324-62 ..... c 33 N90-19492 *
US-PATENT-CLASS-324-64 ..... c 15 N72-21464 *
US-PATENT-CLASS-324-64 ..... c 33 N80-32650 *
US-PATENT-CLASS-324-65-P ..... c 35 N85-34373 *
US-PATENT-CLASS-324-65P ..... c 14 N73-20478 *
US-PATENT-CLASS-324-65R ..... c 15 N72-23497 *
US-PATENT-CLASS-324-65R ..... c 33 N85-30187 *
US-PATENT-CLASS-324-65 ..... c 14 N71-27186 *
US-PATENT-CLASS-324-66 ..... c 05 N72-16015 *
US-PATENT-CLASS-324-687 ..... c 63 N93-14701 *
US-PATENT-CLASS-324-70 ..... c 14 N70-41332 *
US-PATENT-CLASS-324-70 ..... c 14 N71-22990 *
US-PATENT-CLASS-324-70 ..... c 10 N71-24863 *
US-PATENT-CLASS-324-71.3 ..... c 72 N84-28575 *
US-PATENT-CLASS-324-71.5 ..... c 76 N85-30923 *
US-PATENT-CLASS-324-71CP .... c 35 N76-22509 *
US-PATENT-CLASS-324-71CP .... c 35 N82-11431 *
US-PATENT-CLASS-324-71R ..... c 09 N72-21246 *
US-PATENT-CLASS-324-71R ..... c 15 N72-21464 *
US-PATENT-CLASS-324-71 ..... c 09 N71-24843 *
US-PATENT-CLASS-324-72.5 ..... c 44 N74-27519 *
US-PATENT-CLASS-324-72.5 ..... c 72 N84-28575 *
US-PATENT-CLASS-324-72 ..... c 10 N71-19421 *
US-PATENT-CLASS-324-72 ..... c 14 N71-23699 *
US-PATENT-CLASS-324-72 ..... c 07 N73-20175 *
US-PATENT-CLASS-324-72 ..... c 14 N73-32318 *
US-PATENT-CLASS-324-72 ..... c 33 N74-27862 *
US-PATENT-CLASS-324-72 ..... c 33 N75-26246 *
US-PATENT-CLASS-324-72 ..... c 33 N77-10429 *
US-PATENT-CLASS-324-72 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-72 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-72 ..... c 47 N82-24779 *
US-PATENT-CLASS-324-72 ..... c 47 N93-10108 *
US-PATENT-CLASS-324-73AT .... c 08 N72-22166 *
US-PATENT-CLASS-324-73AT .... c 33 N81-26359 *
US-PATENT-CLASS-324-73R ..... c 33 N83-18996 *
US-PATENT-CLASS-324-73 ..... c 14 N71-28991 *
US-PATENT-CLASS-324-74 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-77-E ..... c 33 N89-14385 *
US-PATENT-CLASS-324-77-R ..... c 33 N89-14385 *
US-PATENT-CLASS-324-77B ..... c 60 N75-13539 *
US-PATENT-CLASS-324-77B ..... c 32 N79-10262 *
US-PATENT-CLASS-324-77CS .... c 32 N92-29124 *
US-PATENT-CLASS-324-77C ..... c 32 N79-10262 *
US-PATENT-CLASS-324-77C ..... c 32 N92-29124 *
US-PATENT-CLASS-324-77G ..... c 08 N72-20177 *
US-PATENT-CLASS-324-77H ..... c 35 N75-21582 *
US-PATENT-CLASS-324-77K ..... c 35 N79-10391 *
US-PATENT-CLASS-324-77R ..... c 10 N73-25240 *
US-PATENT-CLASS-324-77R ..... c 47 N82-24779 *
US-PATENT-CLASS-324-77 ..... c 09 N71-10659 *
US-PATENT-CLASS-324-77 ..... c 07 N71-24622 *
US-PATENT-CLASS-324-78-D ..... c 33 N89-14385 *
US-PATENT-CLASS-324-78-F ..... c 33 N89-14385 *
US-PATENT-CLASS-324-78D ..... c 09 N72-25257 *
US-PATENT-CLASS-324-78D ..... c 52 N74-12778 *
US-PATENT-CLASS-324-78D ..... c 32 N90-17005 *
US-PATENT-CLASS-324-78D ..... c 32 N92-29124 *
US-PATENT-CLASS-324-78E ..... c 14 N73-24473 *
US-PATENT-CLASS-324-78F ..... c 32 N92-29124 *
US-PATENT-CLASS-324-78J ..... c 10 N73-25240 *
US-PATENT-CLASS-324-78J ..... c 33 N75-19515 *
US-PATENT-CLASS-324-78Z ..... c 32 N90-17005 *
US-PATENT-CLASS-324-79D ..... c 14 N73-30386 *
US-PATENT-CLASS-324-79D ..... c 33 N76-16331 *
US-PATENT-CLASS-324-79D ..... c 61 N93-14882 *
US-PATENT-CLASS-324-79R ..... c 14 N72-27408 *
US-PATENT-CLASS-324-79R ..... c 33 N84-16454 *
US-PATENT-CLASS-324-79R ..... c 61 N93-14882 *
US-PATENT-CLASS-324-83A ..... c 10 N72-20224 *
US-PATENT-CLASS-324-83A ..... c 33 N84-16454 *
US-PATENT-CLASS-324-83D ..... c 33 N79-10338 *
US-PATENT-CLASS-324-83Q ..... c 35 N74-21017 *
US-PATENT-CLASS-324-83Q ..... c 33 N75-26243 *
US-PATENT-CLASS-324-83Q ..... c 61 N93-14882 *
US-PATENT-CLASS-324-83R ..... c 33 N84-16454 *
US-PATENT-CLASS-324-85 ..... c 10 N72-20224 *
US-PATENT-CLASS-324-85 ..... c 33 N79-10338 *
US-PATENT-CLASS-324-92 ..... c 26 N72-25680 *
US-PATENT-CLASS-324-95 ..... c 10 N71-12554 *
US-PATENT-CLASS-324-95 ..... c 14 N73-30388 *
US-PATENT-CLASS-324-96 ..... c 26 N72-25680 *
US-PATENT-CLASS-324-96 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-99D ..... c 33 N79-22373 *
US-PATENT-CLASS-325-10 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-113 ..... c 07 N71-24840 *
US-PATENT-CLASS-325-113 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-113 ..... c 52 N74-26625 *
US-PATENT-CLASS-325-114 ..... c 07 N72-25171 *
US-PATENT-CLASS-325-114 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-115 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-118 ..... c 17 N78-17140 *
US-PATENT-CLASS-325-12 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-139 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-13 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-141 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-141 ..... c 52 N74-26625 *
US-PATENT-CLASS-325-143 ..... c 05 N71-12342 *
US-PATENT-CLASS-325-145 ..... c 32 N77-14292 *
US-PATENT-CLASS-325-148 ..... c 32 N74-19790 *
US-PATENT-CLASS-325-14 ..... c 17 N76-21250 *
US-PATENT-CLASS-325-14 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-151.11 .. c 08 N71-27057 *
US-PATENT-CLASS-325-159 ..... c 33 N78-32340 *
US-PATENT-CLASS-325-163 ..... c 07 N71-23405 *
US-PATENT-CLASS-325-16 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-17 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-185 ..... c 07 N71-28430 *
US-PATENT-CLASS-325-186 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-187 ..... c 33 N78-32340 *
US-PATENT-CLASS-325-23 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-29 ..... c 09 N72-22202 *
US-PATENT-CLASS-325-302 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-304 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-305 ..... c 07 N71-10775 *
US-PATENT-CLASS-325-305 ..... c 10 N71-20841 *
US-PATENT-CLASS-325-305 ..... c 07 N71-23098 *
US-PATENT-CLASS-325-305 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-306 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-307 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-30 ..... c 32 N74-26654 *
US-PATENT-CLASS-325-30 ..... c 32 N75-24981 *
US-PATENT-CLASS-325-30 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-31 ..... c 07 N71-20791 *
US-PATENT-CLASS-325-320 ..... c 33 N74-12887 *
US-PATENT-CLASS-325-320 ..... c 32 N74-20809 *
US-PATENT-CLASS-325-320 ..... c 32 N74-20811 *
US-PATENT-CLASS-325-320 ..... c 33 N74-27705 *
US-PATENT-CLASS-325-321 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-321 ..... c 32 N74-20810 *
US-PATENT-CLASS-325-321 ..... c 32 N76-16249 *
US-PATENT-CLASS-325-323 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-325 ..... c 07 N71-24613 *
US-PATENT-CLASS-325-325 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-325 ..... c 07 N73-13149 *
US-PATENT-CLASS-325-346 ..... c 10 N73-16205 *
US-PATENT-CLASS-325-346 ..... c 32 N74-30523 *
US-PATENT-CLASS-325-346 ..... c 32 N77-24331 *
US-PATENT-CLASS-325-347 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-348 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-349 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-363 ..... c 07 N71-11267 *
US-PATENT-CLASS-325-363 ..... c 14 N71-26774 *
US-PATENT-CLASS-325-363 ..... c 14 N72-28437 *
US-PATENT-CLASS-325-363 ..... c 10 N73-25241 *
US-PATENT-CLASS-325-363 ..... c 35 N80-18359 *
US-PATENT-CLASS-325-369 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-372 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-373 ..... c 07 N72-33146 *
US-PATENT-CLASS-325-38B ..... c 35 N74-17885 *
US-PATENT-CLASS-325-38 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-38 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-39 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-40 ..... c 07 N73-26118 *
US-PATENT-CLASS-325-419 ..... c 10 N73-16205 *
US-PATENT-CLASS-325-419 ..... c 07 N73-28012 *
US-PATENT-CLASS-325-419 ..... c 32 N74-20810 *
US-PATENT-CLASS-325-419 ..... c 32 N74-20811 *
US-PATENT-CLASS-325-419 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-41 ..... c 10 N71-26577 *
US-PATENT-CLASS-325-41 ..... c 32 N77-12240 *
US-PATENT-CLASS-325-41 ..... c 32 N79-10263 *
US-PATENT-CLASS-325-420 ..... c 07 N73-30113 *
US-PATENT-CLASS-325-422 ..... c 07 N73-30113 *
US-PATENT-CLASS-325-423 ..... c 32 N74-20809 *
US-PATENT-CLASS-325-42 ..... c 07 N71-11266 *
US-PATENT-CLASS-325-42 ..... c 32 N76-21366 *
US-PATENT-CLASS-325-42 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-445 ..... c 07 N72-20141 *
US-PATENT-CLASS-325-446 ..... c 09 N69-24324 * #
US-PATENT-CLASS-325-45 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-473 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-473 ..... c 10 N73-12244 *
US-PATENT-CLASS-325-473 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-476 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-478 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 10 N73-12244 *
US-PATENT-CLASS-325-482 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-492 ..... c 09 N72-17153 *
US-PATENT-CLASS-325-492 ..... c 09 N72-22202 *
US-PATENT-CLASS-325-4 ..... c 07 N71-16088 *
US-PATENT-CLASS-325-4 ..... c 07 N71-19773 *
US-PATENT-CLASS-325-4 ..... c 07 N71-24621 *
US-PATENT-CLASS-325-4 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-4 ..... c 07 N72-12080 *
US-PATENT-CLASS-325-4 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-4 ..... c 07 N72-25171 *
US-PATENT-CLASS-325-4 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-4 ..... c 15 N75-13007 *
US-PATENT-CLASS-325-4 ..... c 32 N75-26195 *
US-PATENT-CLASS-325-4 ..... c 32 N77-20289 *
US-PATENT-CLASS-325-4 ..... c 32 N79-11265 *
US-PATENT-CLASS-325-4 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-51 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-55 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-58 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-58 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-58 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-58 ..... c 32 N78-15323 *
US-PATENT-CLASS-325-58 ..... c 32 N79-20296 *
US-PATENT-CLASS-325-5 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-60 ..... c 08 N71-19763 *
US-PATENT-CLASS-325-60 ..... c 07 N73-16121 *
US-PATENT-CLASS-325-60 ..... c 32 N75-24981 *
US-PATENT-CLASS-325-61 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-62 ..... c 08 N72-25208 *
US-PATENT-CLASS-325-62 ..... c 44 N74-19870 *
US-PATENT-CLASS-325-63 ..... c 10 N71-19467 *
US-PATENT-CLASS-325-63 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-63 ..... c 32 N78-15323 *
US-PATENT-CLASS-325-63 ..... c 32 N79-20296 *
US-PATENT-CLASS-325-64 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-65 ..... c 07 N70-41331 *
US-PATENT-CLASS-325-65 ..... c 07 N70-41372 *
US-PATENT-CLASS-325-65 ..... c 07 N71-11284 *
US-PATENT-CLASS-325-65 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-66 ..... c 17 N78-17140 *
US-PATENT-CLASS-325-67 ..... c 07 N71-26292 *
US-PATENT-CLASS-325-67 ..... c 10 N73-25241 *
US-PATENT-CLASS-325-67 ..... c 35 N75-21582 *
US-PATENT-CLASS-325-67 ..... c 32 N79-11265 *
US-PATENT-CLASS-325-7 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-8 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-8 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-9 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-9 ..... c 32 N80-20448 *
US-PATENT-CLASS-328-104 ..... c 08 N72-22162 *
US-PATENT-CLASS-328-104 ..... c 10 N73-13235 *
US-PATENT-CLASS-328-106 ..... c 09 N72-22201 *
US-PATENT-CLASS-328-110 ..... c 09 N71-12519 *
US-PATENT-CLASS-328-111 ..... c 60 N77-12721 *
US-PATENT-CLASS-328-115 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-116 ..... c 09 N69-39885 * #
US-PATENT-CLASS-328-120 ..... c 09 N71-27016 *
US-PATENT-CLASS-328-123 ..... c 60 N74-12888 *
US-PATENT-CLASS-328-129 ..... c 14 N73-30386 *
US-PATENT-CLASS-328-133 ..... c 09 N71-24596 *
US-PATENT-CLASS-328-133 ..... c 10 N72-20224 *
US-PATENT-CLASS-328-133 ..... c 33 N75-26243 *
US-PATENT-CLASS-328-133 ..... c 33 N77-13315 *
US-PATENT-CLASS-328-133 ..... c 33 N79-11313 *
US-PATENT-CLASS-328-133 ..... c 33 N84-16454 *
US-PATENT-CLASS-328-134 ..... c 08 N71-18692 *
US-PATENT-CLASS-328-134 ..... c 14 N73-30386 *

US-PATENT-CLASS-328-134 ..... c 33 N76-16331 *
US-PATENT-CLASS-328-134 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-136 ..... c 09 N72-25257 *
US-PATENT-CLASS-328-140 ..... c 09 N72-25257 *
US-PATENT-CLASS-328-142 ..... c 09 N72-21245 *
US-PATENT-CLASS-328-145 ..... c 32 N76-14321 *
US-PATENT-CLASS-328-145 ..... c 09 N72-23173 *
US-PATENT-CLASS-328-145 ..... c 33 N78-32339 *
US-PATENT-CLASS-328-147 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-150 ..... c 33 N78-18308 *
US-PATENT-CLASS-328-151 ..... c 09 N72-22200 *
US-PATENT-CLASS-328-151 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-151 ..... c 33 N81-27396 *
US-PATENT-CLASS-328-151 ..... c 33 N91-14550 *
US-PATENT-CLASS-328-154 ..... c 08 N72-22162 *
US-PATENT-CLASS-328-154 ..... c 10 N73-13235 *
US-PATENT-CLASS-328-154 ..... c 33 N74-22814 *
US-PATENT-CLASS-328-155 ..... c 10 N72-16172 *
US-PATENT-CLASS-328-155 ..... c 09 N72-33204 *
US-PATENT-CLASS-328-155 ..... c 33 N74-17927 *
US-PATENT-CLASS-328-155 ..... c 17 N76-22245 *
US-PATENT-CLASS-328-155 ..... c 32 N88-29076 *
US-PATENT-CLASS-328-160 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-161 ..... c 33 N77-17354 *
US-PATENT-CLASS-328-163 ..... c 33 N79-10338 *
US-PATENT-CLASS-328-164 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-164 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-165 ..... c 09 N71-24806 *
US-PATENT-CLASS-328-165 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-166 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-166 ..... c 33 N82-29539 *
US-PATENT-CLASS-328-167 ..... c 10 N71-22986 *
US-PATENT-CLASS-328-167 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-167 ..... c 10 N72-17171 *
US-PATENT-CLASS-328-167 ..... c 09 N72-21245 *
US-PATENT-CLASS-328-167 ..... c 09 N73-20231 *
US-PATENT-CLASS-328-167 ..... c 08 N73-26175 *
US-PATENT-CLASS-328-167 ..... c 33 N82-24417 *
US-PATENT-CLASS-328-167 ..... c 33 N85-29145 *
US-PATENT-CLASS-328-168 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-16 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-171 ..... c 10 N71-24844 *
US-PATENT-CLASS-328-172 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-172 ..... c 33 N78-17294 *
US-PATENT-CLASS-328-186 ..... c 09 N72-17157 *
US-PATENT-CLASS-328-187 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-189 ..... c 14 N72-27408 *
US-PATENT-CLASS-328-190 ..... c 33 N76-14371 *
US-PATENT-CLASS-328-192 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-1 ..... c 23 N71-16099 *
US-PATENT-CLASS-328-1 ..... c 10 N71-19472 *
US-PATENT-CLASS-328-1 ..... c 09 N72-22200 *
US-PATENT-CLASS-328-207 ..... c 09 N71-28468 *
US-PATENT-CLASS-328-207 ..... c 10 N71-28860 *
US-PATENT-CLASS-328-207 ..... c 09 N71-29139 *
US-PATENT-CLASS-328-207 ..... c 10 N72-20221 *
US-PATENT-CLASS-328-20 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-230 ..... c 35 N84-12444 *
US-PATENT-CLASS-328-233 ..... c 10 N71-22962 *
US-PATENT-CLASS-328-233 ..... c 75 N75-13625 *
US-PATENT-CLASS-328-233 ..... c 37 N78-17386 *
US-PATENT-CLASS-328-24 ..... c 09 N72-33204 *
US-PATENT-CLASS-328-28 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-37 ..... c 08 N71-12503 *
US-PATENT-CLASS-328-37 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-37 ..... c 33 N76-14373 *
US-PATENT-CLASS-328-37 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-38 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-38 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-39 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-4-8 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-41 ..... c 33 N75-31330 *
US-PATENT-CLASS-328-42 ..... c 08 N71-19432 *
US-PATENT-CLASS-328-44 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-48 ..... c 14 N73-30386 *
US-PATENT-CLASS-328-48 ..... c 33 N74-10223 *
US-PATENT-CLASS-328-48 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-49 ..... c 10 N71-27137 *
US-PATENT-CLASS-328-55 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-58 ..... c 08 N71-29138 *
US-PATENT-CLASS-328-58 ..... c 33 N74-32711 *
US-PATENT-CLASS-328-58 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-59 ..... c 33 N75-19515 *
US-PATENT-CLASS-328-61 ..... c 09 N71-23525 *
US-PATENT-CLASS-328-61 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-61 ..... c 35 N75-30504 *
US-PATENT-CLASS-328-62 ..... c 35 N75-30504 *
US-PATENT-CLASS-328-63 ..... c 33 N76-14371 *
US-PATENT-CLASS-328-63 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-67 ..... c 10 N71-28960 *
US-PATENT-CLASS-328-67 ..... c 33 N82-24418 *
US-PATENT-CLASS-328-67 ..... c 33 N88-24862 *
US-PATENT-CLASS-328-71 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-92 ..... c 10 N71-28860 *
US-PATENT-CLASS-329-104 ..... c 07 N71-11282 *
US-PATENT-CLASS-329-104 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-104 ..... c 32 N77-24331 *
US-PATENT-CLASS-329-107 ..... c 35 N81-19427 *
US-PATENT-CLASS-329-107 ..... c 32 N87-21207 *
US-PATENT-CLASS-329-119 ..... c 33 N77-21314 *
US-PATENT-CLASS-329-120 ..... c 07 N73-30113 *
US-PATENT-CLASS-329-122 ..... c 10 N71-19469 *
US-PATENT-CLASS-329-122 ..... c 07 N73-28012 *
US-PATENT-CLASS-329-122 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-122 ..... c 32 N74-20811 *
US-PATENT-CLASS-329-122 ..... c 33 N77-14334 *
US-PATENT-CLASS-329-122 ..... c 32 N77-24331 *
US-PATENT-CLASS-329-122 ..... c 32 N79-14267 *
US-PATENT-CLASS-329-122 ..... c 33 N81-33405 *
US-PATENT-CLASS-329-124 ..... c 33 N77-14334 *
US-PATENT-CLASS-329-124 ..... c 33 N78-32338 *
US-PATENT-CLASS-329-124 ..... c 32 N84-27952 *
US-PATENT-CLASS-329-126 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-140 ..... c 07 N71-24583 *
US-PATENT-CLASS-329-145 ..... c 07 N71-33696 *
US-PATENT-CLASS-329-161 ..... c 07 N72-20141 *
US-PATENT-CLASS-329-162 ..... c 07 N72-20141 *
US-PATENT-CLASS-329-166 ..... c 33 N75-19520 *
US-PATENT-CLASS-329-166 ..... c 33 N75-25041 *
US-PATENT-CLASS-329-204 ..... c 33 N75-19520 *
US-PATENT-CLASS-329-204 ..... c 33 N75-25041 *
US-PATENT-CLASS-329-205 ..... c 33 N77-21314 *
US-PATENT-CLASS-329-304 ..... c 32 N91-25318 *
US-PATENT-CLASS-329-304 ..... c 32 N91-27439 *
US-PATENT-CLASS-329-306 ..... c 04 N91-14321 *
US-PATENT-CLASS-329-310 ..... c 32 N92-21712 *
US-PATENT-CLASS-329-349 ..... c 33 N91-26438 *
US-PATENT-CLASS-329-361 ..... c 33 N91-26438 *
US-PATENT-CLASS-329-363 ..... c 33 N91-14550 *
US-PATENT-CLASS-329-50 ..... c 33 N74-17930 *
US-PATENT-CLASS-329-50 ..... c 35 N81-19427 *
US-PATENT-CLASS-33.8UB ..... c 27 N81-15104 *
US-PATENT-CLASS-33-DIG.13 .... c 35 N75-12273 *
US-PATENT-CLASS-33-DIG.3 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-1G ..... c 37 N76-21554 *
US-PATENT-CLASS-33-1M ..... c 35 N74-32877 *
US-PATENT-CLASS-33-1N ..... c 43 N79-26439 *
US-PATENT-CLASS-33-1Q ..... c 43 N79-26439 *
US-PATENT-CLASS-33-1SA ..... c 14 N72-28436 *
US-PATENT-CLASS-33-1SA ..... c 19 N74-21015 *
US-PATENT-CLASS-33-10 ..... c 35 N92-22039 *
US-PATENT-CLASS-33-125R ..... c 52 N80-27072 *
US-PATENT-CLASS-33-125 ..... c 14 N72-11364 *
US-PATENT-CLASS-33-143C ..... c 52 N82-22875 *
US-PATENT-CLASS-33-147D ..... c 37 N88-14361 *
US-PATENT-CLASS-33-147 ..... c 15 N71-19489 *
US-PATENT-CLASS-33-148D ..... c 35 N75-19615 *
US-PATENT-CLASS-33-149 ..... c 14 N71-17657 *
US-PATENT-CLASS-33-15A ..... c 08 N72-11172 *
US-PATENT-CLASS-33-15D ..... c 35 N92-22039 *
US-PATENT-CLASS-33-155R ..... c 33 N76-19338 *
US-PATENT-CLASS-33-169F ..... c 35 N84-28018 *
US-PATENT-CLASS-33-174B ..... c 37 N76-21554 *
US-PATENT-CLASS-33-174D ..... c 33 N76-19338 *
US-PATENT-CLASS-33-174L ..... c 43 N79-26439 *
US-PATENT-CLASS-33-174S ..... c 14 N72-22445 *
US-PATENT-CLASS-33-174 ..... c 14 N69-21363 * #
US-PATENT-CLASS-33-174 ..... c 14 N71-17658 *
US-PATENT-CLASS-33-174 ..... c 14 N71-24693 *
US-PATENT-CLASS-33-180R ..... c 35 N75-12273 *
US-PATENT-CLASS-33-189 ..... c 15 N71-26145 *
US-PATENT-CLASS-33-19.2 ..... c 35 N92-10186 *
US-PATENT-CLASS-33-1 ..... c 14 N70-36907 *
US-PATENT-CLASS-33-204C ..... c 08 N72-11172 *
US-PATENT-CLASS-33-207 ..... c 15 N71-15571 *
US-PATENT-CLASS-33-23.02 ..... c 35 N92-10186 *
US-PATENT-CLASS-33-23R ..... c 35 N74-32877 *
US-PATENT-CLASS-33-261 ..... c 35 N91-14591 *
US-PATENT-CLASS-33-263 ..... c 09 N91-14356 *
US-PATENT-CLASS-33-268 ..... c 89 N74-30886 *
US-PATENT-CLASS-33-285 ..... c 36 N74-21091 *
US-PATENT-CLASS-33-286 ..... c 18 N76-14186 *
US-PATENT-CLASS-33-293 ..... c 35 N84-16523 *
US-PATENT-CLASS-33-31 ..... c 14 N71-21079 *
US-PATENT-CLASS-33-322 ..... c 06 N83-33882 *
US-PATENT-CLASS-33-348 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-356 ..... c 04 N76-20114 *
US-PATENT-CLASS-33-356 ..... c 04 N77-19056 *
US-PATENT-CLASS-33-356 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-361 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-366 ..... c 35 N78-32395 *
US-PATENT-CLASS-33-46R ..... c 19 N74-21015 *
US-PATENT-CLASS-33-520 ..... c 35 N92-22039 *
US-PATENT-CLASS-33-536 ..... c 37 N89-28831 *
US-PATENT-CLASS-33-644 ..... c 35 N92-22039 *
US-PATENT-CLASS-33-72 ..... c 15 N72-11386 *
US-PATENT-CLASS-33-75R ..... c 14 N72-28436 *
US-PATENT-CLASS-33-96 ..... c 33 N75-30430 *
US-PATENT-CLASS-330-103 ..... c 32 N74-22096 *
US-PATENT-CLASS-330-107 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-107 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-107 ..... c 33 N84-14421 *
US-PATENT-CLASS-330-107 ..... c 33 N87-22895 *
US-PATENT-CLASS-330-109 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-109 ..... c 10 N72-17171 *
US-PATENT-CLASS-330-109 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-109 ..... c 09 N73-20231 *
US-PATENT-CLASS-330-109 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-109 ..... c 33 N84-14421 *
US-PATENT-CLASS-330-109 ..... c 33 N84-22887 *
US-PATENT-CLASS-330-10 ..... c 33 N74-14939 *
US-PATENT-CLASS-330-110 ..... c 33 N83-36356 *
US-PATENT-CLASS-330-11 ..... c 09 N71-13531 *
US-PATENT-CLASS-330-11 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-11 ..... c 09 N72-17156 *
US-PATENT-CLASS-330-124 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-12 ..... c 10 N72-33230 *
US-PATENT-CLASS-330-13 ..... c 10 N71-26415 *
US-PATENT-CLASS-330-13 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-14 ..... c 09 N70-35440 *
US-PATENT-CLASS-330-14 ..... c 33 N77-14335 *
US-PATENT-CLASS-330-16 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-176 ..... c 10 N72-17171 *
US-PATENT-CLASS-330-18 ..... c 09 N72-17155 *
US-PATENT-CLASS-330-18 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-200 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-207A .... c 33 N75-30429 *
US-PATENT-CLASS-330-20 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-22 ..... c 09 N71-10798 *
US-PATENT-CLASS-330-22 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-24 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-24 ..... c 33 N75-30429 *
US-PATENT-CLASS-330-258 ..... c 33 N86-20670 *
US-PATENT-CLASS-330-261 ..... c 33 N86-20670 *
US-PATENT-CLASS-330-26 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-27R ..... c 10 N72-31273 *
US-PATENT-CLASS-330-277 ..... c 33 N84-22887 *
US-PATENT-CLASS-330-282 ..... c 33 N83-36356 *
US-PATENT-CLASS-330-289 ..... c 33 N83-34191 *
US-PATENT-CLASS-330-289 ..... c 33 N84-16454 *
US-PATENT-CLASS-330-28 ..... c 33 N74-21851 *
US-PATENT-CLASS-330-28 ..... c 33 N77-14335 *
US-PATENT-CLASS-330-290 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-294 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-294 ..... c 33 N84-22887 *
US-PATENT-CLASS-330-294 ..... c 33 N87-22895 *
US-PATENT-CLASS-330-29 ..... c 09 N69-24330 * #
US-PATENT-CLASS-330-29 ..... c 10 N72-28241 *
US-PATENT-CLASS-330-2 ..... c 09 N69-39986 * #
US-PATENT-CLASS-330-2 ..... c 09 N72-25250 *
US-PATENT-CLASS-330-2 ..... c 33 N78-10375 *
US-PATENT-CLASS-330-2 ..... c 33 N79-22373 *
US-PATENT-CLASS-330-30D ..... c 10 N72-20221 *
US-PATENT-CLASS-330-30D ..... c 09 N73-20232 *
US-PATENT-CLASS-330-302 ..... c 33 N85-29145 *
US-PATENT-CLASS-330-306 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-306 ..... c 33 N85-29145 *
US-PATENT-CLASS-330-30 ..... c 09 N71-19466 *
US-PATENT-CLASS-330-30 ..... c 09 N71-19516 *
US-PATENT-CLASS-330-30 ..... c 09 N71-27016 *
US-PATENT-CLASS-330-310 ..... c 33 N83-34191 *
US-PATENT-CLASS-330-311 ..... c 33 N86-20670 *
US-PATENT-CLASS-330-31 ..... c 10 N71-26331 *
US-PATENT-CLASS-330-31 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-35 ..... c 09 N72-17156 *
US-PATENT-CLASS-330-35 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-35 ..... c 33 N74-14939 *
US-PATENT-CLASS-330-4.3 ..... c 16 N73-32391 *
US-PATENT-CLASS-330-4.3 ..... c 36 N75-19655 *
US-PATENT-CLASS-330-4.3 ..... c 36 N75-27364 *
US-PATENT-CLASS-330-4.3 ..... c 36 N75-32441 *
US-PATENT-CLASS-330-4.3 ..... c 36 N76-29575 *
US-PATENT-CLASS-330-4.3 ..... c 36 N77-25502 *
US-PATENT-CLASS-330-4.3 ..... c 73 N78-19920 *
US-PATENT-CLASS-330-4.3 ..... c 36 N82-28616 *
US-PATENT-CLASS-330-4.5 ..... c 09 N72-25258 *
US-PATENT-CLASS-330-4.9 ..... c 33 N74-32660 *
US-PATENT-CLASS-330-40 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-40 ..... c 09 N72-17155 *
US-PATENT-CLASS-330-40 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-40 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-43 ..... c 33 N79-10339 *
US-PATENT-CLASS-330-43 ..... c 33 N82-26568 *
US-PATENT-CLASS-330-43 ..... c 33 N86-21742 *
US-PATENT-CLASS-330-49 ..... c 14 N70-35220 *
US-PATENT-CLASS-330-4 ..... c 16 N71-15550 *
US-PATENT-CLASS-330-4 ..... c 16 N71-24831 *
US-PATENT-CLASS-330-4 ..... c 16 N72-28521 *
US-PATENT-CLASS-330-4 ..... c 36 N75-15029 *
US-PATENT-CLASS-330-4 ..... c 36 N76-31512 *
US-PATENT-CLASS-330-4 ..... c 36 N78-18410 *
US-PATENT-CLASS-330-4 ..... c 36 N80-18372 *
US-PATENT-CLASS-330-4 ..... c 36 N83-35350 *
US-PATENT-CLASS-330-5.5 ..... c 71 N77-26919 *
US-PATENT-CLASS-330-51 ..... c 10 N71-28859 *
US-PATENT-CLASS-330-51 ..... c 33 N79-22373 *
US-PATENT-CLASS-330-52 ..... c 71 N78-14867 *
US-PATENT-CLASS-330-53 ..... c 33 N74-32660 *

US-PATENT-CLASS-330-59 ..... c 09 N72-25250 *
US-PATENT-CLASS-330-59 ..... c 33 N74-21851 *
US-PATENT-CLASS-330-59 ..... c 33 N77-14335 *
US-PATENT-CLASS-330-5 ..... c 33 N75-27251 *
US-PATENT-CLASS-330-61 ..... c 09 N71-23097 *
US-PATENT-CLASS-330-63 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-69 ..... c 33 N74-32712 *
US-PATENT-CLASS-330-69 ..... c 33 N75-19518 *
US-PATENT-CLASS-330-6 ..... c 35 N75-13213 *
US-PATENT-CLASS-330-70CR .... c 10 N73-27171 *
US-PATENT-CLASS-330-70R ..... c 09 N72-21245 *
US-PATENT-CLASS-330-80T ..... c 09 N73-20232 *
US-PATENT-CLASS-330-85 ..... c 09 N72-21245 *
US-PATENT-CLASS-330-86 ..... c 09 N73-20231 *
US-PATENT-CLASS-330-86 ..... c 33 N75-19518 *
US-PATENT-CLASS-330-86 ..... c 33 N79-22373 *
US-PATENT-CLASS-330-8 ..... c 33 N81-24338 *
US-PATENT-CLASS-330-8 ..... c 33 N89-29681 *
US-PATENT-CLASS-330-94 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-9 ..... c 33 N74-14939 *
US-PATENT-CLASS-331-DIG.1 .... c 36 N75-30524 *
US-PATENT-CLASS-331-DIG.2 .... c 33 N81-33405 *
US-PATENT-CLASS-331-1-A ..... c 33 N86-20668 *
US-PATENT-CLASS-331-1A ..... c 33 N74-10194 *
US-PATENT-CLASS-331-1A ..... c 33 N75-25040 *
US-PATENT-CLASS-331-1A ..... c 33 N79-11313 *
US-PATENT-CLASS-331-107A .... c 71 N77-26919 *
US-PATENT-CLASS-331-107G .... c 26 N72-25679 *
US-PATENT-CLASS-331-107G .... c 09 N73-15235 *
US-PATENT-CLASS-331-107 ..... c 09 N71-18721 *
US-PATENT-CLASS-331-107 ..... c 26 N72-21701 *
US-PATENT-CLASS-331-108A .... c 33 N74-20862 *
US-PATENT-CLASS-331-108D .... c 33 N86-32624 *
US-PATENT-CLASS-331-109 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-109 ..... c 33 N74-26732 *
US-PATENT-CLASS-331-10 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-111 ..... c 10 N71-23669 *
US-PATENT-CLASS-331-111 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-113A .... c 09 N72-25253 *
US-PATENT-CLASS-331-113A .... c 09 N72-25254 *
US-PATENT-CLASS-331-113A .... c 33 N74-11049 *
US-PATENT-CLASS-331-113R .... c 33 N82-18494 *
US-PATENT-CLASS-331-113 ..... c 09 N70-38995 *
US-PATENT-CLASS-331-113 ..... c 10 N71-19418 *
US-PATENT-CLASS-331-113 ..... c 09 N71-19470 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25882 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25950 *
US-PATENT-CLASS-331-113 ..... c 09 N71-28810 *
US-PATENT-CLASS-331-114 ..... c 33 N77-17351 *
US-PATENT-CLASS-331-115 ..... c 10 N72-33230 *
US-PATENT-CLASS-331-115 ..... c 33 N74-20862 *
US-PATENT-CLASS-331-116-FE . c 33 N86-19515 *
US-PATENT-CLASS-331-116-R ... c 33 N87-21232 *
US-PATENT-CLASS-331-116FE .. c 33 N90-23635 *
US-PATENT-CLASS-331-116R .... c 10 N72-33230 *
US-PATENT-CLASS-331-116R .... c 33 N74-20862 *
US-PATENT-CLASS-331-116R .... c 33 N86-32624 *
US-PATENT-CLASS-331-117-FE . c 33 N86-19515 *
US-PATENT-CLASS-331-117-R ... c 33 N87-21232 *
US-PATENT-CLASS-331-117FE .. c 33 N90-23635 *
US-PATENT-CLASS-331-117R .... c 33 N74-26732 *
US-PATENT-CLASS-331-117 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-117 ..... c 09 N72-22203 *
US-PATENT-CLASS-331-12 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-135 ..... c 10 N73-32145 *
US-PATENT-CLASS-331-14 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-14 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-14 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-159 ..... c 33 N74-20862 *
US-PATENT-CLASS-331-162 ..... c 33 N88-26596 *
US-PATENT-CLASS-331-177-R ... c 33 N87-22895 *
US-PATENT-CLASS-331-177R .... c 09 N73-15235 *
US-PATENT-CLASS-331-177V .... c 33 N77-17351 *
US-PATENT-CLASS-331-177 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-178 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-17 ..... c 10 N71-20852 *
US-PATENT-CLASS-331-17 ..... c 10 N73-27171 *
US-PATENT-CLASS-331-17 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-17 ..... c 32 N88-29076 *
US-PATENT-CLASS-331-183 ..... c 33 N74-26732 *
US-PATENT-CLASS-331-18 ..... c 10 N71-26374 *
US-PATENT-CLASS-331-18 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-18 ..... c 33 N75-25040 *
US-PATENT-CLASS-331-1 ..... c 52 N91-14709 *
US-PATENT-CLASS-331-23 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-23 ..... c 33 N77-14334 *
US-PATENT-CLASS-331-23 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-25 ..... c 10 N73-27171 *
US-PATENT-CLASS-331-25 ..... c 33 N75-25040 *
US-PATENT-CLASS-331-25 ..... c 32 N88-29076 *
US-PATENT-CLASS-331-27 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-2 ..... c 33 N86-20668 *
US-PATENT-CLASS-331-30 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-31 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-34 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-36C ..... c 33 N77-14334 *
US-PATENT-CLASS-331-36C ..... c 33 N85-29143 *
US-PATENT-CLASS-331-3 ..... c 35 N76-15436 *
US-PATENT-CLASS-331-3 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-3 ..... c 33 N88-26596 *
US-PATENT-CLASS-331-44 ..... c 14 N72-27408 *
US-PATENT-CLASS-331-45 ..... c 10 N73-16206 *
US-PATENT-CLASS-331-48 ..... c 33 N81-17349 *
US-PATENT-CLASS-331-4 ..... c 09 N69-21543 * #
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US-PATENT-CLASS-331-4 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-56 ..... c 33 N87-21232 *
US-PATENT-CLASS-331-62 ..... c 33 N74-11049 *
US-PATENT-CLASS-331-64 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-65 ..... c 35 N75-29380 *
US-PATENT-CLASS-331-65 ..... c 33 N80-23559 *
US-PATENT-CLASS-331-66 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-66 ..... c 33 N86-32624 *
US-PATENT-CLASS-331-78 ..... c 09 N71-23598 *
US-PATENT-CLASS-331-78 ..... c 08 N73-12175 *
US-PATENT-CLASS-331-78 ..... c 33 N75-19515 *
US-PATENT-CLASS-331-7 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-82 ..... c 33 N84-27974 *
US-PATENT-CLASS-331-82 ..... c 33 N90-22724 *
US-PATENT-CLASS-331-90 ..... c 09 N73-15235 *
US-PATENT-CLASS-331-94.1 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-94.1 ..... c 33 N88-26596 *
US-PATENT-CLASS-331-94.5A ... c 16 N73-33397 *
US-PATENT-CLASS-331-94.5A ... c 36 N75-27364 *
US-PATENT-CLASS-331-94.5C ... c 36 N75-31427 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-18428 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-24553 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-29575 *
US-PATENT-CLASS-331-94.5C ... c 36 N80-14384 *
US-PATENT-CLASS-331-94.5C ... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5D ... c 33 N74-20859 *
US-PATENT-CLASS-331-94.5D ... c 36 N77-19416 *
US-PATENT-CLASS-331-94.5D ... c 36 N77-25502 *
US-PATENT-CLASS-331-94.5D ... c 35 N77-27366 *
US-PATENT-CLASS-331-94.5D ... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5G ... c 36 N75-31426 *
US-PATENT-CLASS-331-94.5G ... c 36 N77-19416 *
US-PATENT-CLASS-331-94.5G ... c 36 N78-17366 *
US-PATENT-CLASS-331-94.5G ... c 36 N78-27402 *
US-PATENT-CLASS-331-94.5G ... c 36 N79-18307 *
US-PATENT-CLASS-331-94.5G ... c 33 N82-24418 *
US-PATENT-CLASS-331-94.5K ... c 36 N74-15145 *
US-PATENT-CLASS-331-94.5L ... c 72 N79-13826 *
US-PATENT-CLASS-331-94.5M ... c 36 N75-19654 *
US-PATENT-CLASS-331-94.5PE . c 36 N75-32441 *
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US-PATENT-CLASS-331-94.5PE . c 72 N79-13826 *
US-PATENT-CLASS-331-94.5PE . c 33 N82-24418 *
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US-PATENT-CLASS-331-94.5P .... c 36 N78-27402 *
US-PATENT-CLASS-331-94.5P .... c 72 N79-13826 *
US-PATENT-CLASS-331-94.5P .... c 36 N79-18307 *
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US-PATENT-CLASS-331-94.5P .... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5S .... c 36 N74-15145 *
US-PATENT-CLASS-331-94.5S .... c 36 N77-25499 *
US-PATENT-CLASS-331-94.5T .... c 35 N77-27366 *
US-PATENT-CLASS-331-94.5T .... c 36 N78-17366 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-18614 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-24832 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-26722 *
US-PATENT-CLASS-331-94.5 ..... c 15 N71-27135 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-29125 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-33410 *
US-PATENT-CLASS-331-94.5 ..... c 16 N72-12440 *
US-PATENT-CLASS-331-94.5 ..... c 25 N72-24753 *
US-PATENT-CLASS-331-94.5 ..... c 16 N72-25485 *
US-PATENT-CLASS-331-94.5 ..... c 07 N73-26119 *
US-PATENT-CLASS-331-94.5 ..... c 09 N73-32111 *
US-PATENT-CLASS-331-94.5 ..... c 16 N73-32391 *
US-PATENT-CLASS-331-94.5 ..... c 36 N76-18427 *
US-PATENT-CLASS-331-94-5G ... c 36 N75-32441 *
US-PATENT-CLASS-331-94 ..... c 16 N70-41578 *
US-PATENT-CLASS-331-94 ..... c 16 N72-28521 *
US-PATENT-CLASS-331-94 ..... c 16 N73-13489 *
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US-PATENT-CLASS-331-94 ..... c 36 N76-31512 *
US-PATENT-CLASS-331-94 ..... c 36 N79-14362 *
US-PATENT-CLASS-331-94 ..... c 36 N80-18372 *
US-PATENT-CLASS-331-96 ..... c 33 N85-29143 *
US-PATENT-CLASS-332-10 ..... c 08 N71-29138 *
US-PATENT-CLASS-332-11D ..... c 35 N74-17885 *
US-PATENT-CLASS-332-16 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-18 ..... c 33 N77-17351 *
US-PATENT-CLASS-332-19 ..... c 10 N71-23544 *
US-PATENT-CLASS-332-1 ..... c 10 N71-23084 *
US-PATENT-CLASS-332-21 ..... c 08 N72-25208 *
US-PATENT-CLASS-332-22 ..... c 32 N77-14292 *
US-PATENT-CLASS-332-22 ..... c 33 N81-15192 *
US-PATENT-CLASS-332-23-A ..... c 32 N87-25511 *
US-PATENT-CLASS-332-23R ..... c 32 N77-14292 *
US-PATENT-CLASS-332-23R ..... c 33 N81-15192 *
US-PATENT-CLASS-332-29 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-2 ..... c 35 N75-19614 *
US-PATENT-CLASS-332-30V ..... c 33 N77-14334 *
US-PATENT-CLASS-332-30V ..... c 33 N77-17351 *
US-PATENT-CLASS-332-30 ..... c 10 N71-27271 *
US-PATENT-CLASS-332-30 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-30 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-31 ..... c 08 N71-12500 *
US-PATENT-CLASS-332-31 ..... c 26 N72-21701 *
US-PATENT-CLASS-332-47 ..... c 33 N75-19520 *
US-PATENT-CLASS-332-51W ..... c 07 N72-20141 *
US-PATENT-CLASS-332-52 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-7.51 ..... c 16 N72-25485 *
US-PATENT-CLASS-332-7.51 ..... c 07 N73-26119 *
US-PATENT-CLASS-332-7.51 ..... c 33 N74-20859 *
US-PATENT-CLASS-332-7.51 ..... c 36 N76-18427 *
US-PATENT-CLASS-332-7.5 ..... c 36 N75-15029 *
US-PATENT-CLASS-332-7.5 ..... c 36 N78-18410 *
US-PATENT-CLASS-332-7.5 ..... c 36 N83-35350 *
US-PATENT-CLASS-332-751 ..... c 36 N80-16321 *
US-PATENT-CLASS-332-9R ..... c 08 N71-29138 *
US-PATENT-CLASS-332-9 ..... c 07 N71-12390 *
US-PATENT-CLASS-333-104 ..... c 33 N82-16340 *
US-PATENT-CLASS-333-12 ..... c 32 N80-32605 *
US-PATENT-CLASS-333-12 ..... c 33 N81-27397 *
US-PATENT-CLASS-333-14 ..... c 32 N74-19788 *
US-PATENT-CLASS-333-161 ..... c 74 N92-28571 *
US-PATENT-CLASS-333-162 ..... c 33 N84-16452 *
US-PATENT-CLASS-333-162 ..... c 33 N84-27974 *
US-PATENT-CLASS-333-16 ..... c 33 N74-17927 *
US-PATENT-CLASS-333-17R ..... c 33 N78-32340 *
US-PATENT-CLASS-333-17 ..... c 44 N74-19870 *
US-PATENT-CLASS-333-18 ..... c 33 N74-17927 *
US-PATENT-CLASS-333-18 ..... c 32 N76-21366 *
US-PATENT-CLASS-333-204 ..... c 33 N81-17348 *
US-PATENT-CLASS-333-20 ..... c 33 N82-24418 *
US-PATENT-CLASS-333-21A ..... c 07 N71-33606 *
US-PATENT-CLASS-333-21R ..... c 33 N75-30430 *
US-PATENT-CLASS-333-214 ..... c 33 N87-22895 *
US-PATENT-CLASS-333-217 ..... c 33 N87-22895 *
US-PATENT-CLASS-333-21 ..... c 07 N71-10676 *
US-PATENT-CLASS-333-22F ..... c 32 N83-27085 *
US-PATENT-CLASS-333-231 ..... c 33 N85-29143 *
US-PATENT-CLASS-333-24.2 ..... c 36 N83-35350 *
US-PATENT-CLASS-333-24R ..... c 09 N72-29172 *
US-PATENT-CLASS-333-24R ..... c 36 N80-18372 *
US-PATENT-CLASS-333-246 ..... c 33 N82-16340 *
US-PATENT-CLASS-333-247 ..... c 33 N91-14552 *
US-PATENT-CLASS-333-252 ..... c 32 N80-32605 *
US-PATENT-CLASS-333-254 ..... c 32 N83-27085 *
US-PATENT-CLASS-333-262 ..... c 33 N80-18285 *
US-PATENT-CLASS-333-30 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-6 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-70CR .... c 10 N72-17171 *
US-PATENT-CLASS-333-70R ..... c 32 N77-18307 *
US-PATENT-CLASS-333-72 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-72 ..... c 71 N77-26919 *
US-PATENT-CLASS-333-73R ..... c 09 N73-26195 *
US-PATENT-CLASS-333-73S ..... c 09 N73-26195 *
US-PATENT-CLASS-333-73W ..... c 07 N72-20141 *
US-PATENT-CLASS-333-73 ..... c 07 N69-24323 * #
US-PATENT-CLASS-333-73 ..... c 09 N71-23573 *
US-PATENT-CLASS-333-75 ..... c 32 N77-18307 *
US-PATENT-CLASS-333-76 ..... c 32 N77-18307 *
US-PATENT-CLASS-333-79 ..... c 10 N70-41964 *
US-PATENT-CLASS-333-79 ..... c 09 N72-25256 *
US-PATENT-CLASS-333-7 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-7 ..... c 07 N72-25170 *
US-PATENT-CLASS-333-80R ..... c 33 N74-32712 *
US-PATENT-CLASS-333-80T ..... c 10 N72-33230 *
US-PATENT-CLASS-333-80 ..... c 09 N71-12517 *
US-PATENT-CLASS-333-80 ..... c 09 N72-21245 *
US-PATENT-CLASS-333-81B ..... c 14 N73-13420 *
US-PATENT-CLASS-333-81R ..... c 07 N72-25170 *
US-PATENT-CLASS-333-81R ..... c 33 N78-32340 *
US-PATENT-CLASS-333-81R ..... c 32 N80-14281 *
US-PATENT-CLASS-333-81 ..... c 07 N71-29065 *
US-PATENT-CLASS-333-82A ..... c 09 N73-26195 *
US-PATENT-CLASS-333-82B ..... c 32 N77-18307 *
US-PATENT-CLASS-333-83BT .... c 33 N75-30430 *
US-PATENT-CLASS-333-83R ..... c 36 N74-11313 *
US-PATENT-CLASS-333-83 ..... c 09 N71-24841 *
US-PATENT-CLASS-333-84M ..... c 09 N73-26195 *
US-PATENT-CLASS-333-8 ..... c 07 N69-24334 * #
US-PATENT-CLASS-333-95 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-96 ..... c 09 N71-20445 *
US-PATENT-CLASS-333-96 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-97R ..... c 36 N74-11313 *
US-PATENT-CLASS-333-97 ..... c 07 N69-27462 * #
US-PATENT-CLASS-333-98P ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98P ..... c 09 N72-29172 *
US-PATENT-CLASS-333-98R ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98R ..... c 09 N72-29172 *

US-PATENT-CLASS-333-98R ..... c 14 N73-13420 *
US-PATENT-CLASS-333-98R ..... c 33 N75-30430 *
US-PATENT-CLASS-333-98S ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98 ..... c 09 N71-23548 *
US-PATENT-CLASS-333-98 ..... c 09 N71-24808 *
US-PATENT-CLASS-333-99S ..... c 32 N80-32605 *
US-PATENT-CLASS-333-995 ..... c 74 N92-28571 *
US-PATENT-CLASS-335-100 ..... c 37 N85-30333 *
US-PATENT-CLASS-335-205 ..... c 09 N72-20199 *
US-PATENT-CLASS-335-216 ..... c 16 N71-28554 *
US-PATENT-CLASS-335-216 ..... c 23 N71-29049 *
US-PATENT-CLASS-335-216 ..... c 26 N73-32571 *
US-PATENT-CLASS-335-216 ..... c 20 N75-24837 *
US-PATENT-CLASS-335-216 ..... c 33 N79-21264 *
US-PATENT-CLASS-335-222 ..... c 35 N84-28017 *
US-PATENT-CLASS-335-229 ..... c 33 N82-24421 *
US-PATENT-CLASS-335-256 ..... c 33 N82-11357 *
US-PATENT-CLASS-335-266 ..... c 33 N82-11357 *
US-PATENT-CLASS-335-266 ..... c 33 N82-24421 *
US-PATENT-CLASS-335-296 ..... c 09 N73-30185 *
US-PATENT-CLASS-335-297 ..... c 09 N73-30185 *
US-PATENT-CLASS-335-300 ..... c 09 N70-41929 *
US-PATENT-CLASS-336-DIG.1 .... c 26 N73-26752 *
US-PATENT-CLASS-336-DIG.1 .... c 33 N79-17133 *
US-PATENT-CLASS-336-120 ..... c 33 N82-24422 *
US-PATENT-CLASS-336-178 ..... c 09 N72-17154 *
US-PATENT-CLASS-336-198 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-198 ..... c 33 N85-29146 *
US-PATENT-CLASS-336-198 ..... c 33 N91-14539 *
US-PATENT-CLASS-336-200 ..... c 26 N73-26752 *
US-PATENT-CLASS-336-205 ..... c 33 N91-14539 *
US-PATENT-CLASS-336-210 ..... c 33 N74-17928 *
US-PATENT-CLASS-336-220 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-229 ..... c 33 N91-14539 *
US-PATENT-CLASS-336-60 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-83 ..... c 33 N82-24422 *
US-PATENT-CLASS-336-84C ..... c 33 N85-29146 *
US-PATENT-CLASS-337-114 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-121 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-140 ..... c 37 N86-19604 *
US-PATENT-CLASS-337-14 ..... c 31 N83-31897 *
US-PATENT-CLASS-337-334 ..... c 37 N77-19458 *
US-PATENT-CLASS-337-354 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-359 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-393 ..... c 37 N87-23970 *
US-PATENT-CLASS-337-75 ..... c 15 N72-12409 *
US-PATENT-CLASS-337 ..... c 25 N79-28253 *
US-PATENT-CLASS-338-100 ..... c 35 N78-17359 *
US-PATENT-CLASS-338-114 ..... c 52 N74-27864 *
US-PATENT-CLASS-338-128 ..... c 33 N92-29153 *
US-PATENT-CLASS-338-13 ..... c 24 N75-30260 *
US-PATENT-CLASS-338-162 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-18 ..... c 35 N79-33449 *
US-PATENT-CLASS-338-22SD .... c 35 N92-33614 *
US-PATENT-CLASS-338-221 ..... c 33 N91-14537 *
US-PATENT-CLASS-338-229 ..... c 35 N77-24454 *
US-PATENT-CLASS-338-25 ..... c 35 N77-21393 *
US-PATENT-CLASS-338-25 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-25 ..... c 35 N92-33614 *
US-PATENT-CLASS-338-275 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-283 ..... c 24 N75-30260 *
US-PATENT-CLASS-338-28 ..... c 35 N77-20400 *
US-PATENT-CLASS-338-28 ..... c 35 N77-24454 *
US-PATENT-CLASS-338-28 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-2 ..... c 33 N75-31329 *
US-PATENT-CLASS-338-2 ..... c 35 N80-20560 *
US-PATENT-CLASS-338-2 ..... c 52 N80-27072 *
US-PATENT-CLASS-338-2 ..... c 35 N84-12443 *
US-PATENT-CLASS-338-309 ..... c 27 N84-33589 *
US-PATENT-CLASS-338-32S ..... c 33 N78-13320 *
US-PATENT-CLASS-338-320 ..... c 33 N74-14935 *
US-PATENT-CLASS-338-32 ..... c 33 N91-14537 *
US-PATENT-CLASS-338-36 ..... c 35 N78-17359 *
US-PATENT-CLASS-338-4 ..... c 35 N92-29097 *
US-PATENT-CLASS-338-5 ..... c 32 N71-15974 *
US-PATENT-CLASS-338-5 ..... c 52 N74-27864 *
US-PATENT-CLASS-338-64 ..... c 09 N71-21583 *
US-PATENT-CLASS-338-6 ..... c 35 N76-14430 *
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US-PATENT-CLASS-338-75 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-82 ..... c 09 N71-20842 *
US-PATENT-CLASS-338-89 ..... c 35 N74-32877 *
US-PATENT-CLASS-338-97 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-99 ..... c 35 N78-17359 *
US-PATENT-CLASS-339-143C .... c 33 N76-16332 *
US-PATENT-CLASS-339-143R .... c 09 N72-25256 *
US-PATENT-CLASS-339-147R .... c 09 N72-25256 *
US-PATENT-CLASS-339-150 ..... c 09 N69-21470 * #
US-PATENT-CLASS-339-17M ..... c 37 N76-27567 *
US-PATENT-CLASS-339-17R ..... c 15 N71-29133 *
US-PATENT-CLASS-339-176MF . c 09 N72-28225 *
US-PATENT-CLASS-339-176M .... c 15 N72-17455 *
US-PATENT-CLASS-339-176 ..... c 09 N70-34596 *
US-PATENT-CLASS-339-176 ..... c 09 N70-36494 *
US-PATENT-CLASS-339-177 ..... c 09 N71-20851 *
US-PATENT-CLASS-339-17 ..... c 14 N69-27431 * #
US-PATENT-CLASS-339-17 ..... c 15 N71-17685 *
US-PATENT-CLASS-339-17 ..... c 09 N71-26133 *
US-PATENT-CLASS-339-18C ..... c 37 N76-27567 *
US-PATENT-CLASS-339-198R .... c 33 N76-16332 *
US-PATENT-CLASS-339-218M .... c 09 N72-28225 *
US-PATENT-CLASS-339-242 ..... c 33 N76-16332 *
US-PATENT-CLASS-339-252R .... c 52 N77-14738 *
US-PATENT-CLASS-339-258RR . c 33 N84-14423 *
US-PATENT-CLASS-339-262RR . c 33 N84-14423 *
US-PATENT-CLASS-339-275R .... c 33 N76-16332 *
US-PATENT-CLASS-339-275T .... c 09 N72-20200 *
US-PATENT-CLASS-339-276T .... c 09 N72-20200 *
US-PATENT-CLASS-339-278M .... c 15 N72-17455 *
US-PATENT-CLASS-339-3R ..... c 07 N83-20944 *
US-PATENT-CLASS-339-45M ..... c 15 N72-25450 *
US-PATENT-CLASS-339-46 ..... c 15 N72-17455 *
US-PATENT-CLASS-339-5R ..... c 07 N83-20944 *
US-PATENT-CLASS-339-5 ..... c 15 N71-23049 *
US-PATENT-CLASS-339-64M ..... c 33 N84-14423 *
US-PATENT-CLASS-339-75MP .... c 09 N72-28225 *
US-PATENT-CLASS-339-91B ..... c 15 N72-25450 *
US-PATENT-CLASS-339-91 ..... c 09 N69-21927 * #
US-PATENT-CLASS-339-94M ..... c 09 N72-28225 *
US-PATENT-CLASS-339-95 ..... c 09 N69-39734 * #
US-PATENT-CLASS-339,12R ..... c 52 N77-25772 *
US-PATENT-CLASS-34-155 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-15 ..... c 28 N78-24365 *
US-PATENT-CLASS-34-160 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-162 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-162 ..... c 35 N74-15831 *
US-PATENT-CLASS-34-57A ..... c 35 N83-24828 *
US-PATENT-CLASS-340-12R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-12R ..... c 46 N79-23555 *
US-PATENT-CLASS-340-146.1AL c 08 N72-25210 *
US-PATENT-CLASS-340-146.1AL c 08 N73-12175 *
US-PATENT-CLASS-340-146.1AL c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AQ c 08 N73-12177 *
US-PATENT-CLASS-340-146.1AQ c 32 N74-32598 *
US-PATENT-CLASS-340-146.1AQ c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AV c 08 N73-12177 *
US-PATENT-CLASS-340-146.1AV c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AX c 32 N79-10263 *
US-PATENT-CLASS-340-146.1C . c 07 N73-20176 *
US-PATENT-CLASS-340-146.1E . c 32 N79-10263 *
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US-PATENT-CLASS-340-146.1 .... c 08 N71-22749 *
US-PATENT-CLASS-340-146.1 .... c 10 N71-26103 *
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US-PATENT-CLASS-340-146.2 .... c 08 N71-23295 *
US-PATENT-CLASS-340-146.3H . c 74 N81-19896 *
US-PATENT-CLASS-340-146.3P . c 43 N77-10584 *
US-PATENT-CLASS-340-146.3Q . c 43 N77-10584 *
US-PATENT-CLASS-340-146.3S . c 74 N81-19896 *
US-PATENT-CLASS-340-146.3Y . c 74 N81-19896 *
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US-PATENT-CLASS-340-147R .... c 07 N73-20176 *
US-PATENT-CLASS-340-147R .... c 60 N76-14818 *
US-PATENT-CLASS-340-147SY .. c 17 N76-22245 *
US-PATENT-CLASS-340-147 ..... c 09 N70-33182 *
US-PATENT-CLASS-340-147 ..... c 09 N70-38998 *
US-PATENT-CLASS-340-15.5GC .. c 14 N73-26432 *
US-PATENT-CLASS-340-150 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-151 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-163 ..... c 07 N73-20176 *
US-PATENT-CLASS-340-164 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-167 ..... c 07 N72-25173 *
US-PATENT-CLASS-340-171 ..... c 09 N72-22202 *
US-PATENT-CLASS-340-171 ..... c 16 N73-16536 *
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US-PATENT-CLASS-340-173CR .. c 60 N74-12888 *
US-PATENT-CLASS-340-173LM .. c 60 N74-12888 *
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US-PATENT-CLASS-340-173LS .. c 08 N72-21198 *
US-PATENT-CLASS-340-173LS .. c 36 N75-19652 *
US-PATENT-CLASS-340-173 ..... c 10 N73-32144 *
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US-PATENT-CLASS-340-174.1M . c 35 N78-29421 *
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US-PATENT-CLASS-340-174.1R . c 21 N73-13644 *
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US-PATENT-CLASS-340-174CS .. c 08 N72-21199 *
US-PATENT-CLASS-340-174CT .. c 23 N72-17747 *
US-PATENT-CLASS-340-174GA . c 23 N72-17747 *
US-PATENT-CLASS-340-174LC .. c 08 N72-21199 *
US-PATENT-CLASS-340-174MA . c 24 N75-13032 *
US-PATENT-CLASS-340-174M .... c 08 N72-21199 *
US-PATENT-CLASS-340-174SC .. c 23 N72-17747 *
US-PATENT-CLASS-340-174SR .. c 08 N72-21199 *
US-PATENT-CLASS-340-174YC .. c 36 N74-13205 *
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US-PATENT-CLASS-340-174 ..... c 08 N71-12504 *
US-PATENT-CLASS-340-174 ..... c 09 N71-12515 *
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US-PATENT-CLASS-340-174 ..... c 08 N71-18694 *
US-PATENT-CLASS-340-174 ..... c 10 N71-23033 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26418 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26434 *
US-PATENT-CLASS-340-174 ..... c 08 N71-28925 *
US-PATENT-CLASS-340-174 ..... c 10 N71-29135 *
US-PATENT-CLASS-340-177VA .. c 06 N80-18036 *
US-PATENT-CLASS-340-177 ..... c 09 N72-17153 *
US-PATENT-CLASS-340-182 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-183 ..... c 52 N74-26625 *
US-PATENT-CLASS-340-189M .... c 17 N76-29347 *
US-PATENT-CLASS-340-198 ..... c 14 N70-33179 *
US-PATENT-CLASS-340-198 ..... c 07 N71-11298 *
US-PATENT-CLASS-340-200 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-200 ..... c 33 N77-31404 *
US-PATENT-CLASS-340-203 ..... c 09 N72-22202 *
US-PATENT-CLASS-340-203 ..... c 52 N74-26625 *
US-PATENT-CLASS-340-206 ..... c 17 N76-29347 *
US-PATENT-CLASS-340-207P .... c 17 N76-22245 *
US-PATENT-CLASS-340-207R .... c 52 N74-26625 *
US-PATENT-CLASS-340-207 ..... c 07 N73-25160 *
US-PATENT-CLASS-340-210 ..... c 03 N72-20031 *
US-PATENT-CLASS-340-213.1 .... c 10 N71-19417 *
US-PATENT-CLASS-340-213R .... c 54 N78-32720 *
US-PATENT-CLASS-340-213 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-223 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-224 ..... c 37 N77-19458 *
US-PATENT-CLASS-340-227R .... c 14 N72-25412 *
US-PATENT-CLASS-340-227 ..... c 10 N71-16058 *
US-PATENT-CLASS-340-227 ..... c 14 N71-27186 *
US-PATENT-CLASS-340-228.2 .... c 10 N72-17173 *
US-PATENT-CLASS-340-228S .... c 14 N73-16484 *
US-PATENT-CLASS-340-233 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-235 ..... c 10 N71-26334 *
US-PATENT-CLASS-340-237S .... c 45 N76-17656 *
US-PATENT-CLASS-340-240 ..... c 09 N72-27227 *
US-PATENT-CLASS-340-242 ..... c 35 N75-19612 *
US-PATENT-CLASS-340-248 ..... c 10 N71-27338 *
US-PATENT-CLASS-340-258R .... c 07 N73-25160 *
US-PATENT-CLASS-340-258 ..... c 10 N72-28240 *
US-PATENT-CLASS-340-25 ..... c 14 N73-16483 *
US-PATENT-CLASS-340-262 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-26 ..... c 21 N72-22619 *
US-PATENT-CLASS-340-26 ..... c 04 N82-16059 *
US-PATENT-CLASS-340-27AT .... c 21 N73-14692 *
US-PATENT-CLASS-340-27NA .... c 21 N73-13643 *
US-PATENT-CLASS-340-27NA .... c 06 N82-16075 *
US-PATENT-CLASS-340-27R ..... c 14 N73-16483 *
US-PATENT-CLASS-340-27R ..... c 14 N73-20474 *
US-PATENT-CLASS-340-27SS .... c 35 N78-14364 *
US-PATENT-CLASS-340-271 ..... c 35 N77-30436 *
US-PATENT-CLASS-340-277 ..... c 10 N73-30205 *
US-PATENT-CLASS-340-279 ..... c 05 N72-16015 *
US-PATENT-CLASS-340-279 ..... c 10 N73-30205 *
US-PATENT-CLASS-340-279 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-285 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-285 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-309.1 .... c 54 N78-32720 *
US-PATENT-CLASS-340-309.4 .... c 33 N81-14221 *
US-PATENT-CLASS-340-310A .... c 33 N81-14221 *
US-PATENT-CLASS-340-310R .... c 33 N81-14221 *
US-PATENT-CLASS-340-324AD .. c 33 N75-19517 *
US-PATENT-CLASS-340-324A .... c 09 N72-25248 *
US-PATENT-CLASS-340-324R .... c 26 N72-25680 *
US-PATENT-CLASS-340-324 ..... c 08 N71-12507 *
US-PATENT-CLASS-340-324 ..... c 09 N71-33519 *
US-PATENT-CLASS-340-332 ..... c 09 N72-25250 *
US-PATENT-CLASS-340-336 ..... c 09 N71-33519 *

US-PATENT-CLASS-340-33 ..... c 21 N73-13643 *
US-PATENT-CLASS-340-347AD .. c 14 N71-28991 *
US-PATENT-CLASS-340-347AD .. c 08 N72-21200 *
US-PATENT-CLASS-340-347AD .. c 08 N72-22163 *
US-PATENT-CLASS-340-347AD .. c 08 N72-22166 *
US-PATENT-CLASS-340-347AD .. c 08 N72-31226 *
US-PATENT-CLASS-340-347AD .. c 08 N73-20217 *
US-PATENT-CLASS-340-347AD .. c 35 N74-17885 *
US-PATENT-CLASS-340-347AD .. c 35 N74-32877 *
US-PATENT-CLASS-340-347AD .. c 33 N76-18345 *
US-PATENT-CLASS-340-347AD .. c 60 N77-32731 *
US-PATENT-CLASS-340-347CC .. c 31 N86-29055 *
US-PATENT-CLASS-340-347DA .. c 08 N71-27057 *
US-PATENT-CLASS-340-347DA .. c 08 N72-20176 *
US-PATENT-CLASS-340-347DA .. c 08 N72-25206 *
US-PATENT-CLASS-340-347DA .. c 08 N73-32081 *
US-PATENT-CLASS-340-347DD .. c 10 N71-33407 *
US-PATENT-CLASS-340-347DD .. c 08 N72-18184 *
US-PATENT-CLASS-340-347DD .. c 08 N72-20176 *
US-PATENT-CLASS-340-347DD .. c 08 N72-21197 *
US-PATENT-CLASS-340-347DD .. c 08 N73-12176 *
US-PATENT-CLASS-340-347DD .. c 60 N76-23850 *
US-PATENT-CLASS-340-347DD .. c 32 N77-12239 *
US-PATENT-CLASS-340-347DD .. c 60 N78-17691 *
US-PATENT-CLASS-340-347DD .. c 60 N79-20751 *
US-PATENT-CLASS-340-347DD .. c 33 N82-26570 *
US-PATENT-CLASS-340-347DD .. c 32 N86-27513 *
US-PATENT-CLASS-340-347P ..... c 60 N76-23850 *
US-PATENT-CLASS-340-347P ..... c 35 N77-30436 *
US-PATENT-CLASS-340-347R .... c 08 N72-22165 *
US-PATENT-CLASS-340-347SH .. c 33 N77-31404 *
US-PATENT-CLASS-340-347SY .. c 62 N76-31946 *
US-PATENT-CLASS-340-347SY .. c 35 N77-30436 *
US-PATENT-CLASS-340-347SY .. c 31 N86-29055 *
US-PATENT-CLASS-340-347 ..... c 08 N70-35423 *
US-PATENT-CLASS-340-347 ..... c 08 N70-40125 *
US-PATENT-CLASS-340-347 ..... c 08 N71-12501 *
US-PATENT-CLASS-340-347 ..... c 08 N71-18594 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19435 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19544 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19687 *
US-PATENT-CLASS-340-347 ..... c 08 N71-24650 *
US-PATENT-CLASS-340-347 ..... c 10 N71-25917 *
US-PATENT-CLASS-340-347 ..... c 10 N71-26544 *
US-PATENT-CLASS-340-347 ..... c 08 N73-28045 *
US-PATENT-CLASS-340-348 ..... c 08 N72-22167 *
US-PATENT-CLASS-340-38P ..... c 66 N76-19888 *
US-PATENT-CLASS-340-403 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-407 ..... c 71 N74-21014 *
US-PATENT-CLASS-340-407 ..... c 82 N87-29372 *
US-PATENT-CLASS-340-412 ..... c 10 N71-24798 *
US-PATENT-CLASS-340-415 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-418 ..... c 14 N73-16484 *
US-PATENT-CLASS-340-5C ..... c 14 N73-27379 *
US-PATENT-CLASS-340-5H ..... c 32 N77-21267 *
US-PATENT-CLASS-340-5R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-518 ..... c 35 N83-34272 *
US-PATENT-CLASS-340-555 ..... c 74 N85-22139 *
US-PATENT-CLASS-340-562 ..... c 63 N93-14701 *
US-PATENT-CLASS-340-566 ..... c 35 N83-34272 *
US-PATENT-CLASS-340-57 ..... c 14 N71-15620 *
US-PATENT-CLASS-340-580 ..... c 35 N88-29149 *
US-PATENT-CLASS-340-601 ..... c 47 N93-10108 *
US-PATENT-CLASS-340-602 ..... c 33 N80-23559 *
US-PATENT-CLASS-340-604 ..... c 33 N80-23559 *
US-PATENT-CLASS-340-605 ..... c 25 N86-27431 *
US-PATENT-CLASS-340-650 ..... c 33 N79-18193 *
US-PATENT-CLASS-340-664 ..... c 33 N79-18193 *
US-PATENT-CLASS-340-683 ..... c 37 N91-14607 *
US-PATENT-CLASS-340-692 ..... c 76 N90-24168 *
US-PATENT-CLASS-340-705 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-8LF ..... c 71 N79-23753 *
US-PATENT-CLASS-340-8R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-825.21 .. c 60 N84-28492 *
US-PATENT-CLASS-340-825.5 .... c 60 N84-28492 *
US-PATENT-CLASS-340-825.5 .... c 17 N87-16863 *
US-PATENT-CLASS-340-825.5 .... c 62 N91-14772 *
US-PATENT-CLASS-340-825.69 .. c 35 N90-23707 *
US-PATENT-CLASS-340-825.89 .. c 33 N82-29538 *
US-PATENT-CLASS-340-870.13 .. c 35 N84-22934 *
US-PATENT-CLASS-340-870.18 .. c 17 N87-16863 *
US-PATENT-CLASS-340-870.24 .. c 33 N81-14221 *
US-PATENT-CLASS-340-870.37 .. c 63 N93-14701 *
US-PATENT-CLASS-340-905 ..... c 35 N84-33769 *
US-PATENT-CLASS-340-945 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-967 ..... c 08 N87-20999 *
US-PATENT-CLASS-340-968 ..... c 06 N86-27280 *
US-PATENT-CLASS-340-971 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-971 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-975 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-975 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-978 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-97 ..... c 21 N73-13643 *
US-PATENT-CLASS-340-980 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-988 ..... c 35 N84-33769 *
US-PATENT-CLASS-342-100 ..... c 61 N93-14882 *
US-PATENT-CLASS-342-105 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-114 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-125 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-127 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-165 ..... c 32 N89-28672 *
US-PATENT-CLASS-342-191 ..... c 43 N91-32546 *
US-PATENT-CLASS-342-195 ..... c 33 N89-14384 *
US-PATENT-CLASS-342-195 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-1 ..... c 32 N89-28672 *
US-PATENT-CLASS-342-25 ..... c 43 N91-14642 *
US-PATENT-CLASS-342-25 ..... c 43 N91-32546 *
US-PATENT-CLASS-342-26 ..... c 43 N91-21621 *
US-PATENT-CLASS-342-26 ..... c 43 N91-32546 *
US-PATENT-CLASS-342-352 ..... c 04 N91-14321 *
US-PATENT-CLASS-342-357 ..... c 04 N91-14321 *
US-PATENT-CLASS-342-357 ..... c 43 N91-21621 *
US-PATENT-CLASS-342-374 ..... c 32 N89-11961 *
US-PATENT-CLASS-342-375 ..... c 32 N89-11961 *
US-PATENT-CLASS-342-418 ..... c 04 N91-14321 *
US-PATENT-CLASS-342-43 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-51 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-52 ..... c 43 N91-21621 *
US-PATENT-CLASS-342-54 ..... c 09 N91-14356 *
US-PATENT-CLASS-342-5 ..... c 32 N89-28672 *
US-PATENT-CLASS-343-DIG.2 .... c 07 N73-24176 *
US-PATENT-CLASS-343-DIG.2 .... c 33 N74-20860 *
US-PATENT-CLASS-343-DIG.2 .... c 37 N86-25791 *
US-PATENT-CLASS-343-DIG.2 .... c 32 N89-25363 *
US-PATENT-CLASS-343-DIG.3 .... c 09 N72-12136 *
US-PATENT-CLASS-343-DIG2 ..... c 07 N83-20944 *
US-PATENT-CLASS-343-100AP .. c 33 N83-36355 *
US-PATENT-CLASS-343-100CL .. c 32 N77-32342 *
US-PATENT-CLASS-343-100CL .. c 32 N79-14268 *
US-PATENT-CLASS-343-100CL .. c 32 N81-29308 *
US-PATENT-CLASS-343-100CL .. c 32 N83-18975 *
US-PATENT-CLASS-343-100CL .. c 32 N83-19968 *
US-PATENT-CLASS-343-100ME . c 14 N72-28437 *
US-PATENT-CLASS-343-100ME . c 14 N73-26432 *
US-PATENT-CLASS-343-100ME . c 46 N80-14603 *
US-PATENT-CLASS-343-100ME . c 35 N80-18359 *
US-PATENT-CLASS-343-100ME . c 46 N82-12685 *
US-PATENT-CLASS-343-100ME . c 06 N83-10040 *
US-PATENT-CLASS-343-100PE .. c 32 N75-24982 *
US-PATENT-CLASS-343-100PE .. c 33 N81-26358 *
US-PATENT-CLASS-343-100PE .. c 46 N82-12685 *
US-PATENT-CLASS-343-100PE .. c 35 N82-15381 *
US-PATENT-CLASS-343-100R .... c 10 N73-16206 *
US-PATENT-CLASS-343-100R .... c 33 N80-18287 *
US-PATENT-CLASS-343-100SA .. c 10 N73-16206 *
US-PATENT-CLASS-343-100SA .. c 33 N74-20860 *
US-PATENT-CLASS-343-100SA .. c 17 N76-21250 *
US-PATENT-CLASS-343-100SA .. c 32 N80-28578 *
US-PATENT-CLASS-343-100ST .. c 07 N72-21118 *
US-PATENT-CLASS-343-100ST .. c 33 N74-20860 *
US-PATENT-CLASS-343-100ST .. c 32 N75-15854 *
US-PATENT-CLASS-343-100ST .. c 17 N76-21250 *
US-PATENT-CLASS-343-100ST .. c 32 N77-20289 *
US-PATENT-CLASS-343-100ST .. c 33 N80-18287 *
US-PATENT-CLASS-343-100TD .. c 32 N79-24210 *
US-PATENT-CLASS-343-100TD .. c 32 N81-14185 *
US-PATENT-CLASS-343-100 ..... c 10 N71-18722 *
US-PATENT-CLASS-343-100 ..... c 07 N71-19854 *
US-PATENT-CLASS-343-100 ..... c 30 N71-23723 *
US-PATENT-CLASS-343-100 ..... c 07 N71-24621 *
US-PATENT-CLASS-343-100 ..... c 09 N71-24804 *
US-PATENT-CLASS-343-100 ..... c 31 N71-24813 *
US-PATENT-CLASS-343-100 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-100 ..... c 07 N71-28900 *
US-PATENT-CLASS-343-105R .... c 32 N75-26194 *
US-PATENT-CLASS-343-105R .... c 04 N84-27713 *
US-PATENT-CLASS-343-108R .... c 04 N74-13420 *
US-PATENT-CLASS-343-10 ..... c 32 N77-32342 *
US-PATENT-CLASS-343-11R ..... c 09 N73-12211 *
US-PATENT-CLASS-343-11VB .... c 09 N73-12211 *
US-PATENT-CLASS-343-112CA .. c 21 N73-13643 *
US-PATENT-CLASS-343-112CA .. c 21 N73-30641 *
US-PATENT-CLASS-343-112CA .. c 03 N75-30132 *
US-PATENT-CLASS-343-112D .... c 14 N72-28437 *
US-PATENT-CLASS-343-112D .... c 32 N75-26194 *
US-PATENT-CLASS-343-112D .... c 46 N80-14603 *
US-PATENT-CLASS-343-112R .... c 09 N73-32110 *
US-PATENT-CLASS-343-112R .... c 17 N78-17140 *
US-PATENT-CLASS-343-112R .... c 04 N80-32359 *
US-PATENT-CLASS-343-112R .... c 32 N81-27341 *
US-PATENT-CLASS-343-112TC .. c 17 N76-21250 *
US-PATENT-CLASS-343-112 ..... c 21 N71-13958 *
US-PATENT-CLASS-343-112 ..... c 02 N71-19287 *
US-PATENT-CLASS-343-112 ..... c 21 N71-24948 *
US-PATENT-CLASS-343-113R .... c 09 N73-32110 *
US-PATENT-CLASS-343-113R .... c 44 N78-28594 *
US-PATENT-CLASS-343-113 ..... c 10 N71-21473 *
US-PATENT-CLASS-343-113 ..... c 07 N71-24625 *
US-PATENT-CLASS-343-117R .... c 32 N79-13214 *
US-PATENT-CLASS-343-117 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-118 ..... c 32 N79-13214 *
US-PATENT-CLASS-343-119 ..... c 44 N78-28594 *
US-PATENT-CLASS-343-12R ..... c 08 N72-25209 *
US-PATENT-CLASS-343-12 ..... c 21 N70-41930 *
US-PATENT-CLASS-343-12 ..... c 10 N72-20224 *
US-PATENT-CLASS-343-13-R .... c 74 N85-34629 *
US-PATENT-CLASS-343-13 ..... c 09 N71-18598 *
US-PATENT-CLASS-343-14 ..... c 07 N70-41680 *
US-PATENT-CLASS-343-14 ..... c 08 N72-25209 *
US-PATENT-CLASS-343-14 ..... c 14 N73-25461 *
US-PATENT-CLASS-343-14 ..... c 32 N79-14267 *
US-PATENT-CLASS-343-14 ..... c 31 N79-28370 *
US-PATENT-CLASS-343-16M ..... c 10 N72-22235 *
US-PATENT-CLASS-343-16M ..... c 44 N78-28594 *
US-PATENT-CLASS-343-16 ..... c 09 N71-20864 *
US-PATENT-CLASS-343-16 ..... c 10 N71-21483 *
US-PATENT-CLASS-343-17.1PF . c 32 N82-23376 *
US-PATENT-CLASS-343-17.2-PC c 32 N85-34327 *
US-PATENT-CLASS-343-17.2PC . c 35 N79-10391 *
US-PATENT-CLASS-343-17.2 ..... c 07 N70-36911 *
US-PATENT-CLASS-343-17.5 ..... c 14 N73-25461 *
US-PATENT-CLASS-343-17.5 ..... c 32 N75-15854 *
US-PATENT-CLASS-343-17.5 ..... c 32 N84-22820 *
US-PATENT-CLASS-343-17.7 ..... c 07 N71-12391 *
US-PATENT-CLASS-343-17.7 ..... c 44 N74-19870 *
US-PATENT-CLASS-343-17.7 ..... c 32 N77-31350 *
US-PATENT-CLASS-343-17.7 ..... c 32 N79-11265 *
US-PATENT-CLASS-343-17.7 ..... c 32 N84-27951 *
US-PATENT-CLASS-343-17.7 ..... c 33 N85-21493 *
US-PATENT-CLASS-343-176 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-176 ..... c 32 N76-14321 *
US-PATENT-CLASS-343-179 ..... c 07 N72-11149 *
US-PATENT-CLASS-343-179 ..... c 07 N73-20174 *
US-PATENT-CLASS-343-179 ..... c 32 N78-15323 *
US-PATENT-CLASS-343-179 ..... c 32 N79-20296 *
US-PATENT-CLASS-343-18A ..... c 32 N80-14281 *
US-PATENT-CLASS-343-18B ..... c 32 N74-12912 *
US-PATENT-CLASS-343-18B ..... c 32 N77-21267 *
US-PATENT-CLASS-343-18B ..... c 43 N80-18498 *
US-PATENT-CLASS-343-18D ..... c 43 N80-18498 *
US-PATENT-CLASS-343-18 ..... c 31 N70-37981 *
US-PATENT-CLASS-343-18 ..... c 07 N70-40063 *
US-PATENT-CLASS-343-18 ..... c 30 N70-40309 *
US-PATENT-CLASS-343-18 ..... c 07 N70-41678 *
US-PATENT-CLASS-343-200 ..... c 07 N73-16121 *
US-PATENT-CLASS-343-204 ..... c 07 N73-26118 *
US-PATENT-CLASS-343-225 ..... c 17 N78-17140 *
US-PATENT-CLASS-343-352 ..... c 43 N85-21723 *
US-PATENT-CLASS-343-352 ..... c 46 N85-21846 *
US-PATENT-CLASS-343-356 ..... c 04 N84-22546 *
US-PATENT-CLASS-343-357 ..... c 04 N84-22546 *
US-PATENT-CLASS-343-357 ..... c 04 N86-27270 *
US-PATENT-CLASS-343-376 ..... c 33 N85-21493 *
US-PATENT-CLASS-343-418 ..... c 04 N86-27270 *
US-PATENT-CLASS-343-460 ..... c 46 N85-21846 *
US-PATENT-CLASS-343-5-CD ..... c 43 N86-19711 *
US-PATENT-CLASS-343-5-CM .... c 32 N84-34651 *
US-PATENT-CLASS-343-5-CM .... c 32 N85-34327 *
US-PATENT-CLASS-343-5-CM .... c 43 N86-19711 *
US-PATENT-CLASS-343-5-DP .... c 32 N84-34651 *
US-PATENT-CLASS-343-5-FT ..... c 32 N84-34651 *
US-PATENT-CLASS-343-5-VQ ..... c 43 N86-19711 *
US-PATENT-CLASS-343-5-W ..... c 32 N85-34327 *
US-PATENT-CLASS-343-5CM ..... c 07 N72-21118 *
US-PATENT-CLASS-343-5CM ..... c 32 N77-21267 *
US-PATENT-CLASS-343-5CM ..... c 32 N77-32342 *
US-PATENT-CLASS-343-5CM ..... c 35 N79-10391 *
US-PATENT-CLASS-343-5CM ..... c 32 N79-14268 *
US-PATENT-CLASS-343-5CM ..... c 43 N80-18498 *
US-PATENT-CLASS-343-5CM ..... c 32 N82-12297 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-18975 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-19968 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-31918 *
US-PATENT-CLASS-343-5DP ..... c 07 N72-11149 *
US-PATENT-CLASS-343-5DP ..... c 09 N73-12211 *
US-PATENT-CLASS-343-5DP ..... c 32 N77-32342 *
US-PATENT-CLASS-343-5DP ..... c 32 N82-23376 *
US-PATENT-CLASS-343-5GC ..... c 32 N75-24982 *
US-PATENT-CLASS-343-5MM ..... c 32 N77-21267 *
US-PATENT-CLASS-343-5NA ..... c 31 N79-28370 *
US-PATENT-CLASS-343-5W ..... c 35 N79-10391 *
US-PATENT-CLASS-343-5W ..... c 43 N80-18498 *
US-PATENT-CLASS-343-5W ..... c 46 N85-21846 *
US-PATENT-CLASS-343-6.8R ..... c 32 N77-20289 *
US-PATENT-CLASS-343-6.5R ..... c 07 N72-12080 *
US-PATENT-CLASS-343-6.5R ..... c 07 N72-21118 *
US-PATENT-CLASS-343-6.5R ..... c 07 N72-25171 *
US-PATENT-CLASS-343-6.5R ..... c 08 N72-25209 *
US-PATENT-CLASS-343-6.5R ..... c 07 N73-25161 *
US-PATENT-CLASS-343-6.5R ..... c 21 N73-30641 *
US-PATENT-CLASS-343-6.5R ..... c 32 N74-12912 *
US-PATENT-CLASS-343-6.5R ..... c 32 N75-15854 *
US-PATENT-CLASS-343-6.5R ..... c 03 N75-30132 *
US-PATENT-CLASS-343-6.5R ..... c 32 N77-20289 *
US-PATENT-CLASS-343-6.5SS ... c 32 N74-12912 *
US-PATENT-CLASS-343-6.5 ..... c 21 N71-11766 *
US-PATENT-CLASS-343-6.5 ..... c 10 N71-23099 *
US-PATENT-CLASS-343-6.8-R .... c 04 N86-19304 *

US-PATENT-CLASS-343-6.8R ..... c 07 N72-12080 *
US-PATENT-CLASS-343-6.8R ..... c 07 N73-25161 *
US-PATENT-CLASS-343-6.8R ..... c 14 N73-25461 *
US-PATENT-CLASS-343-6R ..... c 32 N79-10264 *
US-PATENT-CLASS-343-6 ..... c 30 N71-16090 *
US-PATENT-CLASS-343-7.4 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-7.4 ..... c 32 N79-13214 *
US-PATENT-CLASS-343-7.5 ..... c 07 N69-39974 * #
US-PATENT-CLASS-343-7.5 ..... c 09 N71-24595 *
US-PATENT-CLASS-343-7.5 ..... c 07 N72-11149 *
US-PATENT-CLASS-343-7.5 ..... c 44 N74-19870 *
US-PATENT-CLASS-343-7.5 ..... c 32 N82-23376 *
US-PATENT-CLASS-343-700MS . c 32 N78-24391 *
US-PATENT-CLASS-343-700MS . c 32 N80-32604 *
US-PATENT-CLASS-343-700MS . c 32 N82-11336 *
US-PATENT-CLASS-343-703 ..... c 09 N71-13521 *
US-PATENT-CLASS-343-703 ..... c 07 N71-24614 *
US-PATENT-CLASS-343-705 ..... c 07 N70-38200 *
US-PATENT-CLASS-343-705 ..... c 07 N70-40202 *
US-PATENT-CLASS-343-705 ..... c 31 N71-10747 *
US-PATENT-CLASS-343-705 ..... c 03 N76-32140 *
US-PATENT-CLASS-343-706 ..... c 07 N72-21117 *
US-PATENT-CLASS-343-708 ..... c 09 N71-22888 *
US-PATENT-CLASS-343-708 ..... c 07 N71-22984 *
US-PATENT-CLASS-343-708 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-708 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-708 ..... c 32 N74-20864 *
US-PATENT-CLASS-343-708 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-718 ..... c 09 N71-18720 *
US-PATENT-CLASS-343-720 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-725 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-727 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-727 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-729 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-730 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-754 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-755 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-755 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-761 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-761 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-762 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-766 ..... c 35 N92-33010 *
US-PATENT-CLASS-343-768 ..... c 10 N71-26142 *
US-PATENT-CLASS-343-769 ..... c 32 N74-20864 *
US-PATENT-CLASS-343-770 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-770 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-771 ..... c 07 N71-28809 *
US-PATENT-CLASS-343-771 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-771 ..... c 09 N72-21244 *
US-PATENT-CLASS-343-771 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-771 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-771 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-772 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-772 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-773 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-776 ..... c 07 N71-12396 *
US-PATENT-CLASS-343-777 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-777 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-777 ..... c 32 N89-11961 *
US-PATENT-CLASS-343-778 ..... c 32 N89-11961 *
US-PATENT-CLASS-343-779 ..... c 07 N71-11285 *
US-PATENT-CLASS-343-779 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-779 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-779 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-779 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-779 ..... c 32 N89-11961 *
US-PATENT-CLASS-343-781CA .. c 32 N78-31321 *
US-PATENT-CLASS-343-781P ..... c 46 N82-12685 *
US-PATENT-CLASS-343-781R ..... c 32 N81-25278 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35219 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35382 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35425 *
US-PATENT-CLASS-343-781 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-781 ..... c 32 N74-11000 *
US-PATENT-CLASS-343-781 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-781 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-782 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-782 ..... c 32 N78-31321 *
US-PATENT-CLASS-343-784 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-786 ..... c 07 N71-15907 *
US-PATENT-CLASS-343-786 ..... c 07 N71-22750 *
US-PATENT-CLASS-343-786 ..... c 07 N71-26101 *
US-PATENT-CLASS-343-786 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-786 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-786 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-786 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-786 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-786 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-786 ..... c 32 N76-15330 *
US-PATENT-CLASS-343-786 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-786 ..... c 32 N80-23524 *
US-PATENT-CLASS-343-786 ..... c 32 N80-29539 *
US-PATENT-CLASS-343-786 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-789 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-789 ..... c 32 N82-27558 *
US-PATENT-CLASS-343-795 ..... c 32 N82-11336 *

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US-PATENT-CLASS-343-797 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-797 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-797 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-797 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-797 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-797 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-799 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-803 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-823 ..... c 07 N71-28979 *
US-PATENT-CLASS-343-830 ..... c 32 N80-32604 *
US-PATENT-CLASS-343-833 ..... c 31 N70-34135 *
US-PATENT-CLASS-343-837 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-837 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-837 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-837 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-837 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-837 ..... c 32 N78-31321 *
US-PATENT-CLASS-343-839 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-840 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-840 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-840 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-840 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-840 ..... c 33 N83-36355 *
US-PATENT-CLASS-343-844 ..... c 32 N79-11264 *
US-PATENT-CLASS-343-844 ..... c 32 N80-28578 *
US-PATENT-CLASS-343-846 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-846 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-853 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-853 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-853 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-853 ..... c 09 N72-31235 *
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US-PATENT-CLASS-343-853 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-853 ..... c 32 N74-20864 *
US-PATENT-CLASS-343-854 ..... c 07 N69-27460 * #
US-PATENT-CLASS-343-854 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-854 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-854 ..... c 33 N74-20860 *
US-PATENT-CLASS-343-854 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-854 ..... c 32 N79-11264 *
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US-PATENT-CLASS-343-872 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-873 ..... c 07 N71-19493 *
US-PATENT-CLASS-343-873 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-876 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-876 ..... c 32 N85-29118 *
US-PATENT-CLASS-343-880 ..... c 07 N73-26117 *
US-PATENT-CLASS-343-880 ..... c 18 N80-14183 *
US-PATENT-CLASS-343-880 ..... c 32 N89-25363 *
US-PATENT-CLASS-343-881 ..... c 37 N86-25789 *
US-PATENT-CLASS-343-882 ..... c 33 N76-32457 *
US-PATENT-CLASS-343-882 ..... c 37 N86-25789 *
US-PATENT-CLASS-343-883 ..... c 07 N73-26117 *
US-PATENT-CLASS-343-883 ..... c 18 N80-14183 *
US-PATENT-CLASS-343-883 ..... c 37 N86-25791 *
US-PATENT-CLASS-343-884 ..... c 07 N71-27191 *
US-PATENT-CLASS-343-889 ..... c 07 N73-26117 *
US-PATENT-CLASS-343-893 ..... c 09 N72-21244 *
US-PATENT-CLASS-343-893 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-895 ..... c 09 N73-19234 *
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US-PATENT-CLASS-343-9PS ..... c 32 N83-19968 *
US-PATENT-CLASS-343-9PS ..... c 32 N83-31918 *
US-PATENT-CLASS-343-9R ..... c 32 N84-22820 *
US-PATENT-CLASS-343-909 ..... c 32 N74-11000 *
US-PATENT-CLASS-343-909 ..... c 35 N76-15435 *
US-PATENT-CLASS-343-909 ..... c 33 N79-28416 *
US-PATENT-CLASS-343-909 ..... c 32 N80-14281 *
US-PATENT-CLASS-343-912 ..... c 07 N72-21117 *
US-PATENT-CLASS-343-912 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-912 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-915 ..... c 31 N71-16102 *
US-PATENT-CLASS-343-915 ..... c 09 N71-20658 *
US-PATENT-CLASS-343-915 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-915 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-915 ..... c 07 N73-24176 *
US-PATENT-CLASS-343-915 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-915 ..... c 33 N76-32457 *
US-PATENT-CLASS-343-915 ..... c 32 N89-25363 *
US-PATENT-CLASS-343-9 ..... c 32 N75-15854 *
US-PATENT-CLASS-343-9 ..... c 32 N79-10264 *
US-PATENT-CLASS-346-107A .... c 14 N72-18411 *
US-PATENT-CLASS-346-107 ..... c 23 N71-23976 *
US-PATENT-CLASS-346-108 ..... c 35 N74-15831 *
US-PATENT-CLASS-346-110 ..... c 14 N73-32322 *
US-PATENT-CLASS-346-138 ..... c 21 N73-13644 *
US-PATENT-CLASS-346-138 ..... c 35 N74-15831 *
US-PATENT-CLASS-346-1 ..... c 12 N71-20815 *
US-PATENT-CLASS-346-1 ..... c 09 N72-21246 *
US-PATENT-CLASS-346-23 ..... c 14 N72-18411 *
US-PATENT-CLASS-346-24 ..... c 35 N74-15831 *
US-PATENT-CLASS-346-29 ..... c 09 N72-21246 *
US-PATENT-CLASS-346-33R ..... c 35 N74-32877 *

US-PATENT-CLASS-346-44 ..... c 09 N69-21467 * #
US-PATENT-CLASS-346-50 ..... c 14 N71-21006 *
US-PATENT-CLASS-346-74MD ... c 21 N73-13644 *
US-PATENT-CLASS-346-74MT .... c 35 N79-16246 *
US-PATENT-CLASS-346R ..... c 73 N77-18891 *
US-PATENT-CLASS-349 ..... c 25 N79-28253 *
US-PATENT-CLASS-35-10.2 ..... c 14 N71-15621 *
US-PATENT-CLASS-35-12C ..... c 14 N73-27377 *
US-PATENT-CLASS-35-12C ..... c 09 N75-15662 *
US-PATENT-CLASS-35-12C ..... c 74 N79-13855 *
US-PATENT-CLASS-35-12E ..... c 09 N74-30597 *
US-PATENT-CLASS-35-12E ..... c 09 N79-31228 *
US-PATENT-CLASS-35-12H ..... c 09 N79-31228 *
US-PATENT-CLASS-35-12N ..... c 09 N76-24280 *
US-PATENT-CLASS-35-12N ..... c 09 N78-18083 *
US-PATENT-CLASS-35-12N ..... c 74 N79-13855 *
US-PATENT-CLASS-35-12 ..... c 11 N70-34815 *
US-PATENT-CLASS-35-12 ..... c 31 N70-34966 *
US-PATENT-CLASS-35-12 ..... c 11 N71-10746 *
US-PATENT-CLASS-35-12 ..... c 11 N71-10748 *
US-PATENT-CLASS-35-12 ..... c 11 N71-10776 *
US-PATENT-CLASS-35-12 ..... c 11 N71-18773 *
US-PATENT-CLASS-35-12 ..... c 11 N71-19494 *
US-PATENT-CLASS-35-12 ..... c 11 N71-21474 *
US-PATENT-CLASS-35-12 ..... c 18 N76-14186 *
US-PATENT-CLASS-35-17 ..... c 05 N71-24606 *
US-PATENT-CLASS-35-19 ..... c 10 N71-27365 *
US-PATENT-CLASS-35-22R ..... c 05 N73-13114 *
US-PATENT-CLASS-35-29 ..... c 11 N71-16028 *
US-PATENT-CLASS-35-29 ..... c 05 N71-28619 *
US-PATENT-CLASS-35-35A ..... c 71 N74-21014 *
US-PATENT-CLASS-35-45 ..... c 14 N70-35394 *
US-PATENT-CLASS-35-49 ..... c 12 N69-39988 * #
US-PATENT-CLASS-35-8 ..... c 05 N72-16015 *
US-PATENT-CLASS-350-100 ..... c 36 N77-25501 *
US-PATENT-CLASS-350-102 ..... c 23 N71-29123 *
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US-PATENT-CLASS-350-102 ..... c 18 N91-27200 *
US-PATENT-CLASS-350-107 ..... c 18 N91-27200 *
US-PATENT-CLASS-350-138 ..... c 23 N72-27728 *
US-PATENT-CLASS-350-145 ..... c 74 N77-20882 *
US-PATENT-CLASS-350-147 ..... c 14 N72-27409 *
US-PATENT-CLASS-350-150 ..... c 26 N72-25680 *
US-PATENT-CLASS-350-150 ..... c 36 N76-18427 *
US-PATENT-CLASS-350-151 ..... c 36 N74-13205 *
US-PATENT-CLASS-350-151 ..... c 35 N78-29421 *
US-PATENT-CLASS-350-157 ..... c 74 N79-14891 *
US-PATENT-CLASS-350-159 ..... c 74 N78-17865 *
US-PATENT-CLASS-350-160R .... c 14 N72-25410 *
US-PATENT-CLASS-350-160R .... c 26 N72-25680 *
US-PATENT-CLASS-350-160 ..... c 36 N76-18427 *
US-PATENT-CLASS-350-161 ..... c 26 N72-27784 *
US-PATENT-CLASS-350-161 ..... c 36 N75-31427 *
US-PATENT-CLASS-350-162.13 .. c 74 N89-14078 *
US-PATENT-CLASS-350-162.13 .. c 74 N91-25840 *
US-PATENT-CLASS-350-162R .... c 74 N80-21140 *
US-PATENT-CLASS-350-162SF .. c 23 N73-30666 *
US-PATENT-CLASS-350-162SF .. c 74 N76-31998 *
US-PATENT-CLASS-350-162SF .. c 74 N77-28932 *
US-PATENT-CLASS-350-162SF .. c 36 N77-32478 *
US-PATENT-CLASS-350-162 ..... c 14 N72-17323 *
US-PATENT-CLASS-350-163 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-165 ..... c 27 N78-31233 *
US-PATENT-CLASS-350-166 ..... c 44 N83-34448 *
US-PATENT-CLASS-350-168 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-16 ..... c 14 N72-22444 *
US-PATENT-CLASS-350-170 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-170 ..... c 74 N83-10900 *
US-PATENT-CLASS-350-171 ..... c 23 N72-23695 *
US-PATENT-CLASS-350-171 ..... c 74 N83-17305 *
US-PATENT-CLASS-350-172 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-173 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-173 ..... c 74 N83-36898 *
US-PATENT-CLASS-350-173 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-174 ..... c 74 N77-20882 *
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US-PATENT-CLASS-350-175E .... c 74 N80-27185 *
US-PATENT-CLASS-350-175FS .. c 14 N72-25414 *
US-PATENT-CLASS-350-175NG . c 27 N78-31233 *
US-PATENT-CLASS-350-189 ..... c 23 N71-24857 *
US-PATENT-CLASS-350-199 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-19 ..... c 14 N72-22441 *
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US-PATENT-CLASS-350-1 ..... c 74 N78-15879 *
US-PATENT-CLASS-350-202 ..... c 23 N73-20741 *
US-PATENT-CLASS-350-202 ..... c 74 N77-28932 *
US-PATENT-CLASS-350-203 ..... c 14 N72-25409 *
US-PATENT-CLASS-350-204 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-204 ..... c 74 N78-17866 *
US-PATENT-CLASS-350-211 ..... c 44 N76-14602 *
US-PATENT-CLASS-350-213 ..... c 14 N71-15622 *
US-PATENT-CLASS-350-226 ..... c 74 N80-27185 *

US-PATENT-CLASS-350-236 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-23 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-253 ..... c 35 N77-27366 *
US-PATENT-CLASS-350-25 ..... c 74 N80-21138 *
US-PATENT-CLASS-350-269 ..... c 33 N74-20861 *
US-PATENT-CLASS-350-26 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-270 ..... c 70 N74-21300 *
US-PATENT-CLASS-350-275 ..... c 09 N71-19479 *
US-PATENT-CLASS-350-276-R ... c 74 N86-20125 *
US-PATENT-CLASS-350-276R .... c 74 N86-28732 *
US-PATENT-CLASS-350-285 ..... c 14 N71-15605 *
US-PATENT-CLASS-350-285 ..... c 14 N71-17662 *
US-PATENT-CLASS-350-285 ..... c 19 N71-26674 *
US-PATENT-CLASS-350-285 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-285 ..... c 16 N73-33397 *
US-PATENT-CLASS-350-285 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-285 ..... c 74 N80-21138 *
US-PATENT-CLASS-350-286 ..... c 07 N71-29065 *
US-PATENT-CLASS-350-286 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-286 ..... c 74 N83-10900 *
US-PATENT-CLASS-350-287 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-287 ..... c 74 N83-13978 *
US-PATENT-CLASS-350-287 ..... c 35 N91-14590 *
US-PATENT-CLASS-350-288 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-288 ..... c 12 N76-15189 *
US-PATENT-CLASS-350-288 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-288 ..... c 44 N79-11471 *
US-PATENT-CLASS-350-288 ..... c 44 N79-24433 *
US-PATENT-CLASS-350-292 ..... c 35 N75-12273 *
US-PATENT-CLASS-350-292 ..... c 44 N79-14529 *
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US-PATENT-CLASS-350-293 ..... c 44 N78-10554 *
US-PATENT-CLASS-350-293 ..... c 44 N79-14529 *
US-PATENT-CLASS-350-294 ..... c 89 N79-10969 *
US-PATENT-CLASS-350-294 ..... c 44 N79-24432 *
US-PATENT-CLASS-350-294 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-295 ..... c 44 N77-32583 *
US-PATENT-CLASS-350-295 ..... c 44 N80-14473 *
US-PATENT-CLASS-350-296 ..... c 44 N79-24432 *
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US-PATENT-CLASS-350-3.5 ..... c 35 N78-17357 *
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US-PATENT-CLASS-350-3.64 ..... c 35 N91-13694 *
US-PATENT-CLASS-350-3.68 ..... c 74 N91-25840 *
US-PATENT-CLASS-350-3.73 ..... c 36 N87-23960 *
US-PATENT-CLASS-350-3.81 ..... c 36 N87-23960 *
US-PATENT-CLASS-350-301 ..... c 74 N81-17886 *
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US-PATENT-CLASS-350-310 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-310 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-310 ..... c 23 N72-22673 *
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US-PATENT-CLASS-350-312 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-315 ..... c 74 N86-29650 * #
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US-PATENT-CLASS-350-318 ..... c 74 N86-29650 * #
US-PATENT-CLASS-350-319 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-319 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-319 ..... c 09 N87-14355 *
US-PATENT-CLASS-350-320 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-320 ..... c 44 N77-32583 *
US-PATENT-CLASS-350-320 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-320 ..... c 44 N79-14529 *
US-PATENT-CLASS-350-320 ..... c 74 N85-29749 *
US-PATENT-CLASS-350-320 ..... c 35 N91-13694 *
US-PATENT-CLASS-350-321 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-331-R ... c 74 N89-14078 *
US-PATENT-CLASS-350-335 ..... c 74 N86-21348 *
US-PATENT-CLASS-350-337 ..... c 74 N89-14078 *
US-PATENT-CLASS-350-342 ..... c 76 N85-33826 *
US-PATENT-CLASS-350-342 ..... c 74 N89-14078 *
US-PATENT-CLASS-350-353 ..... c 74 N83-19597 *
US-PATENT-CLASS-350-353 ..... c 74 N91-26918 *
US-PATENT-CLASS-350-354 ..... c 32 N86-20647 *
US-PATENT-CLASS-350-354 ..... c 74 N89-14077 *
US-PATENT-CLASS-350-354 ..... c 35 N91-13694 *
US-PATENT-CLASS-350-354 ..... c 74 N91-26918 *
US-PATENT-CLASS-350-356 ..... c 74 N90-22383 *
US-PATENT-CLASS-350-358 ..... c 36 N82-29589 *
US-PATENT-CLASS-350-358 ..... c 74 N91-26918 *
US-PATENT-CLASS-350-359 ..... c 36 N80-16321 *
US-PATENT-CLASS-350-35 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-36 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-370 ..... c 35 N81-33448 *
US-PATENT-CLASS-350-443 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-445 ..... c 74 N83-36898 *
US-PATENT-CLASS-350-448 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-453 ..... c 36 N82-32712 *
US-PATENT-CLASS-350-486 ..... c 74 N83-13978 *
US-PATENT-CLASS-350-49 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-500 ..... c 35 N91-14590 *
US-PATENT-CLASS-350-505 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-505 ..... c 74 N86-28732 *
US-PATENT-CLASS-350-529 ..... c 37 N91-21545 *
US-PATENT-CLASS-350-52 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-52 ..... c 14 N72-22444 *
US-PATENT-CLASS-350-537 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-55 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-55 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-55 ..... c 23 N73-30666 *
US-PATENT-CLASS-350-55 ..... c 89 N79-10969 *
US-PATENT-CLASS-350-55 ..... c 74 N80-33210 *
US-PATENT-CLASS-350-572 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-573 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-576 ..... c 35 N91-14591 *
US-PATENT-CLASS-350-580 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-58 ..... c 14 N71-15604 *
US-PATENT-CLASS-350-6.5 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-6.5 ..... c 74 N87-21679 *
US-PATENT-CLASS-350-6.6 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-619 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-6 ..... c 14 N69-27461 * #
US-PATENT-CLASS-350-6 ..... c 36 N74-15145 *
US-PATENT-CLASS-350-79 ..... c 14 N72-32452 *
US-PATENT-CLASS-350-7 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-86 ..... c 14 N72-22445 *
US-PATENT-CLASS-350-96.10 .... c 74 N84-11921 *
US-PATENT-CLASS-350-96.15 .... c 74 N84-11921 *
US-PATENT-CLASS-350-96.15 .... c 74 N85-29749 *
US-PATENT-CLASS-350-96.16 .... c 74 N83-29032 *
US-PATENT-CLASS-350-96.21 .... c 74 N89-25689 *
US-PATENT-CLASS-350-96.25 .... c 33 N81-29342 *
US-PATENT-CLASS-350-96.25 .... c 74 N89-25689 *
US-PATENT-CLASS-350-96.29 .... c 74 N91-21871 *
US-PATENT-CLASS-350-96R ..... c 60 N77-14751 *
US-PATENT-CLASS-350-96R ..... c 60 N77-32731 *
US-PATENT-CLASS-350-96R ..... c 60 N78-10709 *
US-PATENT-CLASS-350-96WG ... c 36 N75-31427 *
US-PATENT-CLASS-350-96WG ... c 36 N76-18428 *
US-PATENT-CLASS-350-96WG ... c 36 N76-24553 *
US-PATENT-CLASS-350-96 ..... c 07 N71-26291 *
US-PATENT-CLASS-350-97 ..... c 18 N91-27200 *
US-PATENT-CLASS-351-166 ..... c 74 N78-32854 *
US-PATENT-CLASS-351-203 ..... c 52 N89-16256 *
US-PATENT-CLASS-351-206 ..... c 52 N87-24874 *
US-PATENT-CLASS-351-206 ..... c 52 N92-28755 *
US-PATENT-CLASS-351-208 ..... c 52 N87-24874 *
US-PATENT-CLASS-351-221 ..... c 52 N92-28755 *
US-PATENT-CLASS-351-237 ..... c 52 N89-16256 *
US-PATENT-CLASS-351-23 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-23 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-30 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-30 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-36 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-36 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-38 ..... c 54 N75-27759 *
US-PATENT-CLASS-352-169 ..... c 14 N73-14427 *
US-PATENT-CLASS-352-171 ..... c 35 N82-26628 *
US-PATENT-CLASS-352-84 ..... c 16 N71-33410 *
US-PATENT-CLASS-352-84 ..... c 14 N72-18411 *
US-PATENT-CLASS-353-54 ..... c 34 N74-23066 *
US-PATENT-CLASS-353-61 ..... c 34 N74-23066 *
US-PATENT-CLASS-354-118 ..... c 74 N81-17886 *
US-PATENT-CLASS-354-217 ..... c 35 N82-26628 *
US-PATENT-CLASS-354-234 ..... c 33 N74-20861 *
US-PATENT-CLASS-354-234 ..... c 70 N74-21300 *
US-PATENT-CLASS-354-289 ..... c 35 N82-26628 *
US-PATENT-CLASS-354-479 ..... c 74 N86-28732 *
US-PATENT-CLASS-354-62 ..... c 52 N87-24874 *
US-PATENT-CLASS-354-77 ..... c 74 N79-20856 *
US-PATENT-CLASS-355-18 ..... c 14 N73-33361 *
US-PATENT-CLASS-356-103 ..... c 14 N71-28994 *
US-PATENT-CLASS-356-103 ..... c 36 N75-15028 *
US-PATENT-CLASS-356-103 ..... c 74 N78-13874 *
US-PATENT-CLASS-356-104 ..... c 16 N71-24074 *
US-PATENT-CLASS-356-104 ..... c 74 N78-13874 *
US-PATENT-CLASS-356-106LR .. c 36 N75-19653 *
US-PATENT-CLASS-356-106R .... c 72 N74-19310 *
US-PATENT-CLASS-356-106R .... c 36 N76-14447 *
US-PATENT-CLASS-356-106R .... c 35 N77-10493 *
US-PATENT-CLASS-356-106R .... c 47 N77-10753 *
US-PATENT-CLASS-356-106S .... c 23 N73-13661 *
US-PATENT-CLASS-356-106S .... c 35 N76-31490 *
US-PATENT-CLASS-356-106S .... c 35 N78-18391 *
US-PATENT-CLASS-356-1065 .... c 35 N74-23040 *
US-PATENT-CLASS-356-106 ..... c 14 N71-17627 *
US-PATENT-CLASS-356-106 ..... c 14 N71-17655 *
US-PATENT-CLASS-356-106 ..... c 14 N71-27215 *
US-PATENT-CLASS-356-106 ..... c 14 N73-12446 *
US-PATENT-CLASS-356-106 ..... c 35 N74-15146 *
US-PATENT-CLASS-356-107 ..... c 16 N71-24170 *
US-PATENT-CLASS-356-108 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-108 ..... c 16 N73-30476 *
US-PATENT-CLASS-356-109 ..... c 16 N73-30476 *
US-PATENT-CLASS-356-110 ..... c 14 N73-25463 *
US-PATENT-CLASS-356-110 ..... c 35 N78-18391 *
US-PATENT-CLASS-356-112 ..... c 72 N74-19310 *
US-PATENT-CLASS-356-113 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-113 ..... c 35 N74-23040 *
US-PATENT-CLASS-356-114 ..... c 14 N73-12446 *
US-PATENT-CLASS-356-114 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-117 ..... c 23 N71-16101 *
US-PATENT-CLASS-356-120 ..... c 74 N78-27904 *
US-PATENT-CLASS-356-123 ..... c 74 N76-19935 *
US-PATENT-CLASS-356-124 ..... c 74 N76-19935 *
US-PATENT-CLASS-356-124 ..... c 74 N79-11865 *
US-PATENT-CLASS-356-128 ..... c 76 N87-25862 *
US-PATENT-CLASS-356-129 ..... c 74 N79-20856 *
US-PATENT-CLASS-356-129 ..... c 76 N87-25862 *
US-PATENT-CLASS-356-138 ..... c 14 N72-20379 *
US-PATENT-CLASS-356-138 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-141 ..... c 14 N72-27409 *
US-PATENT-CLASS-356-141 ..... c 14 N73-28490 *
US-PATENT-CLASS-356-141 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-141 ..... c 89 N74-30886 *
US-PATENT-CLASS-356-141 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-141 ..... c 09 N91-14356 *
US-PATENT-CLASS-356-141 ..... c 35 N91-15512 *
US-PATENT-CLASS-356-147 ..... c 89 N74-30886 *
US-PATENT-CLASS-356-148 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-150 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-150 ..... c 74 N80-21138 *
US-PATENT-CLASS-356-152 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-152 ..... c 16 N72-13437 *
US-PATENT-CLASS-356-152 ..... c 14 N72-20379 *
US-PATENT-CLASS-356-152 ..... c 14 N72-27409 *
US-PATENT-CLASS-356-152 ..... c 14 N73-25462 *
US-PATENT-CLASS-356-152 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-152 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-152 ..... c 74 N74-21304 *
US-PATENT-CLASS-356-152 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-152 ..... c 74 N80-21138 *
US-PATENT-CLASS-356-152 ..... c 37 N81-27519 *
US-PATENT-CLASS-356-152 ..... c 09 N91-14356 *
US-PATENT-CLASS-356-152 ..... c 35 N91-15512 *
US-PATENT-CLASS-356-153 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-153 ..... c 23 N71-29125 *
US-PATENT-CLASS-356-153 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-153 ..... c 18 N76-14186 *
US-PATENT-CLASS-356-154 ..... c 15 N71-26673 *
US-PATENT-CLASS-356-159 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-160 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-161 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-162 ..... c 66 N76-19888 *
US-PATENT-CLASS-356-165 ..... c 38 N78-17396 *
US-PATENT-CLASS-356-166 ..... c 14 N71-23175 *
US-PATENT-CLASS-356-167 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-167 ..... c 66 N76-19888 *
US-PATENT-CLASS-356-167 ..... c 74 N78-27904 *
US-PATENT-CLASS-356-169 ..... c 60 N78-10709 *
US-PATENT-CLASS-356-171 ..... c 74 N77-22950 *
US-PATENT-CLASS-356-172 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-172 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-172 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-17 ..... c 14 N72-21409 *
US-PATENT-CLASS-356-180 ..... c 35 N74-27860 *
US-PATENT-CLASS-356-186 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-188 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-189 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-189 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-18 ..... c 14 N72-21409 *
US-PATENT-CLASS-356-197 ..... c 37 N74-18123 *
US-PATENT-CLASS-356-199 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-1 ..... c 36 N83-34304 *
US-PATENT-CLASS-356-1 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-1 ..... c 09 N91-14356 *
US-PATENT-CLASS-356-201 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-201 ..... c 35 N77-14411 *
US-PATENT-CLASS-356-202 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-203 ..... c 14 N71-26788 *

US-PATENT-CLASS-356-204 ..... c 35 N77-14411 *
US-PATENT-CLASS-356-204 ..... c 74 N78-17867 *
US-PATENT-CLASS-356-207 ..... c 45 N76-17656 *
US-PATENT-CLASS-356-208 ..... c 74 N78-33913 *
US-PATENT-CLASS-356-209 ..... c 23 N71-16341 *
US-PATENT-CLASS-356-209 ..... c 14 N71-28993 *
US-PATENT-CLASS-356-209 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-209 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-210 ..... c 74 N79-11865 *
US-PATENT-CLASS-356-212 ..... c 35 N77-31465 *
US-PATENT-CLASS-356-213 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-216 ..... c 74 N74-15095 *
US-PATENT-CLASS-356-216 ..... c 35 N80-18359 *
US-PATENT-CLASS-356-216 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-216 ..... c 35 N84-22931 *
US-PATENT-CLASS-356-222 ..... c 03 N72-20033 *
US-PATENT-CLASS-356-222 ..... c 47 N83-32232 *
US-PATENT-CLASS-356-234 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-234 ..... c 35 N84-22931 *
US-PATENT-CLASS-356-236 ..... c 74 N77-21941 *
US-PATENT-CLASS-356-236 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-237 ..... c 74 N77-10899 *
US-PATENT-CLASS-356-237 ..... c 38 N78-17395 *
US-PATENT-CLASS-356-237 ..... c 38 N78-17396 *
US-PATENT-CLASS-356-237 ..... c 35 N79-28527 *
US-PATENT-CLASS-356-239 ..... c 74 N77-10899 *
US-PATENT-CLASS-356-241 ..... c 14 N72-32452 *
US-PATENT-CLASS-356-243 ..... c 36 N80-16321 *
US-PATENT-CLASS-356-244 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-244 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-244 ..... c 35 N80-28687 *
US-PATENT-CLASS-356-244 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-246 ..... c 35 N74-27860 *
US-PATENT-CLASS-356-246 ..... c 74 N78-17867 *
US-PATENT-CLASS-356-246 ..... c 74 N87-14971 *
US-PATENT-CLASS-356-248 ..... c 14 N72-22444 *
US-PATENT-CLASS-356-256 ..... c 36 N87-28006 *
US-PATENT-CLASS-356-28.5 ..... c 32 N80-24510 *
US-PATENT-CLASS-356-28.5 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-28.5 ..... c 36 N82-32712 *
US-PATENT-CLASS-356-28.5 ..... c 35 N86-32697 *
US-PATENT-CLASS-356-28.5 ..... c 35 N87-14669 *
US-PATENT-CLASS-356-28.5 ..... c 36 N87-17026 *
US-PATENT-CLASS-356-28.5 ..... c 36 N88-14350 *
US-PATENT-CLASS-356-28.5 ..... c 33 N89-14384 *
US-PATENT-CLASS-356-28.5 ..... c 33 N89-14385 *
US-PATENT-CLASS-356-28.5 ..... c 36 N90-25340 *
US-PATENT-CLASS-356-28 ..... c 21 N71-19212 *
US-PATENT-CLASS-356-28 ..... c 16 N71-24828 *
US-PATENT-CLASS-356-28 ..... c 72 N74-19310 *
US-PATENT-CLASS-356-28 ..... c 36 N75-15028 *
US-PATENT-CLASS-356-28 ..... c 35 N75-16783 *
US-PATENT-CLASS-356-28 ..... c 36 N76-14447 *
US-PATENT-CLASS-356-28 ..... c 36 N77-25501 *
US-PATENT-CLASS-356-28 ..... c 74 N78-17866 *
US-PATENT-CLASS-356-28 ..... c 35 N79-18296 *
US-PATENT-CLASS-356-28 ..... c 36 N80-16321 *
US-PATENT-CLASS-356-28 ..... c 36 N87-17026 *
US-PATENT-CLASS-356-28 ..... c 36 N90-25340 *
US-PATENT-CLASS-356-28 ..... c 02 N92-34172 *
US-PATENT-CLASS-356-300 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-300 ..... c 20 N93-18856 *
US-PATENT-CLASS-356-301 ..... c 35 N87-14669 *
US-PATENT-CLASS-356-311 ..... c 35 N86-25753 *
US-PATENT-CLASS-356-311 ..... c 20 N93-18856 *
US-PATENT-CLASS-356-318 ..... c 35 N86-25753 *
US-PATENT-CLASS-356-318 ..... c 02 N92-34172 *
US-PATENT-CLASS-356-323 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-328 ..... c 35 N80-26635 *
US-PATENT-CLASS-356-328 ..... c 74 N93-13419 *
US-PATENT-CLASS-356-32 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-32 ..... c 32 N73-20740 *
US-PATENT-CLASS-356-32 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-330 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-331 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-334 ..... c 74 N80-21140 *
US-PATENT-CLASS-356-345 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-345 ..... c 74 N81-29963 *
US-PATENT-CLASS-356-345 ..... c 36 N84-14509 *
US-PATENT-CLASS-356-345 ..... c 74 N86-21348 *
US-PATENT-CLASS-356-345 ..... c 74 N91-21871 *
US-PATENT-CLASS-356-346 ..... c 35 N80-20563 *
US-PATENT-CLASS-356-346 ..... c 74 N81-29963 *
US-PATENT-CLASS-356-347 ..... c 35 N84-22929 *
US-PATENT-CLASS-356-347 ..... c 35 N89-26202 *
US-PATENT-CLASS-356-349 ..... c 36 N82-16396 *
US-PATENT-CLASS-356-350 ..... c 35 N81-33448 *
US-PATENT-CLASS-356-350 ..... c 74 N87-23259 *
US-PATENT-CLASS-356-351 ..... c 35 N81-33448 *
US-PATENT-CLASS-356-351 ..... c 35 N85-30282 *
US-PATENT-CLASS-356-351 ..... c 74 N92-22034 *
US-PATENT-CLASS-356-352 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-353 ..... c 74 N83-32577 *
US-PATENT-CLASS-356-356 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-356 ..... c 74 N93-11058 *
US-PATENT-CLASS-356-357 ..... c 74 N83-21949 *
US-PATENT-CLASS-356-358 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-358 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-358 ..... c 35 N85-30282 *
US-PATENT-CLASS-356-360 ..... c 74 N92-22034 *
US-PATENT-CLASS-356-360 ..... c 74 N93-11058 *
US-PATENT-CLASS-356-361 ..... c 35 N89-26202 *
US-PATENT-CLASS-356-363 ..... c 74 N83-32577 *
US-PATENT-CLASS-356-363 ..... c 74 N92-22034 *
US-PATENT-CLASS-356-369 ..... c 35 N80-28687 *
US-PATENT-CLASS-356-36 ..... c 23 N71-16365 *
US-PATENT-CLASS-356-36 ..... c 20 N93-18856 *
US-PATENT-CLASS-356-370 ..... c 74 N92-29117 *
US-PATENT-CLASS-356-375 ..... c 74 N91-32922 *
US-PATENT-CLASS-356-376 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-376 ..... c 74 N93-11058 *
US-PATENT-CLASS-356-37 ..... c 45 N76-21742 *
US-PATENT-CLASS-356-386 ..... c 36 N82-16396 *
US-PATENT-CLASS-356-389 ..... c 33 N87-14594 *
US-PATENT-CLASS-356-394 ..... c 33 N83-18996 *
US-PATENT-CLASS-356-399 ..... c 74 N91-32922 *
US-PATENT-CLASS-356-4.5 ..... c 74 N86-21348 *
US-PATENT-CLASS-356-4.5 ..... c 74 N86-32266 *
US-PATENT-CLASS-356-402 ..... c 74 N86-29650 * #
US-PATENT-CLASS-356-404 ..... c 35 N79-28527 *
US-PATENT-CLASS-356-406 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-407 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-407 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-409 ..... c 36 N87-28006 *
US-PATENT-CLASS-356-414 ..... c 74 N92-29117 *
US-PATENT-CLASS-356-416 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-416 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-419 ..... c 74 N86-29650 * #
US-PATENT-CLASS-356-432 ..... c 74 N81-17887 *
US-PATENT-CLASS-356-432 ..... c 25 N81-25159 *
US-PATENT-CLASS-356-432 ..... c 38 N92-29154 *
US-PATENT-CLASS-356-434 ..... c 35 N84-34705 *
US-PATENT-CLASS-356-437 ..... c 25 N81-14015 *
US-PATENT-CLASS-356-43 ..... c 74 N74-15095 *
US-PATENT-CLASS-356-43 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-43 ..... c 36 N85-21639 *
US-PATENT-CLASS-356-43 ..... c 36 N90-17132 *
US-PATENT-CLASS-356-446 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-45 ..... c 36 N85-21639 *
US-PATENT-CLASS-356-4 ..... c 14 N72-17326 *
US-PATENT-CLASS-356-4 ..... c 07 N73-26119 *
US-PATENT-CLASS-356-4 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-4 ..... c 35 N75-15014 *
US-PATENT-CLASS-356-4 ..... c 36 N83-34304 *
US-PATENT-CLASS-356-4 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-51 ..... c 06 N72-31141 *
US-PATENT-CLASS-356-51 ..... c 35 N75-30502 *
US-PATENT-CLASS-356-51 ..... c 35 N83-21311 *
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US-PATENT-CLASS-356-5 ..... c 74 N85-34629 *
US-PATENT-CLASS-356-5 ..... c 74 N86-32266 *
US-PATENT-CLASS-356-5 ..... c 32 N87-14559 *
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US-PATENT-CLASS-356-71 ..... c 66 N76-19888 *
US-PATENT-CLASS-356-72 ..... c 14 N71-23268 *
US-PATENT-CLASS-356-72 ..... c 33 N73-27796 *
US-PATENT-CLASS-356-72 ..... c 38 N78-32447 *
US-PATENT-CLASS-356-72 ..... c 74 N80-33210 *
US-PATENT-CLASS-356-72 ..... c 35 N86-32697 *
US-PATENT-CLASS-356-73.1 ..... c 76 N90-24150 *
US-PATENT-CLASS-356-73 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-73 ..... c 38 N78-32447 *
US-PATENT-CLASS-356-73 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-73 ..... c 09 N86-32447 *
US-PATENT-CLASS-356-73 ..... c 35 N86-32697 *
US-PATENT-CLASS-356-73 ..... c 76 N90-24150 *
US-PATENT-CLASS-356-74 ..... c 30 N71-15990 *
US-PATENT-CLASS-356-74 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-76 ..... c 23 N71-26206 *
US-PATENT-CLASS-356-76 ..... c 14 N71-29041 *
US-PATENT-CLASS-356-83 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-85 ..... c 37 N74-18123 *
US-PATENT-CLASS-356-85 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-87 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-96 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-97 ..... c 35 N77-14411 *
US-PATENT-CLASS-357-12 ..... c 33 N85-21492 *
US-PATENT-CLASS-357-13 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-15 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-15 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-15 ..... c 44 N81-29525 *
US-PATENT-CLASS-357-15 ..... c 76 N86-20150 *
US-PATENT-CLASS-357-15 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-15 ..... c 33 N91-21434 *
US-PATENT-CLASS-357-15 ..... c 33 N92-16197 *
US-PATENT-CLASS-357-16 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-16 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-16 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-16 ..... c 76 N93-11056 *
US-PATENT-CLASS-357-17 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-17 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-22 ..... c 33 N79-11314 *
US-PATENT-CLASS-357-22 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-22 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-23.12 .... c 76 N87-13313 *
US-PATENT-CLASS-357-23.1 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-23.6 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-231 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-23 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-23 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-23 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-24 ..... c 33 N75-31331 *
US-PATENT-CLASS-357-24 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-27 ..... c 35 N91-14588 *
US-PATENT-CLASS-357-28 ..... c 35 N92-33614 *
US-PATENT-CLASS-357-29 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-29 ..... c 35 N84-33765 *
US-PATENT-CLASS-357-29 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-29 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-29 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-29 ..... c 33 N92-16196 *
US-PATENT-CLASS-357-30 ..... c 44 N76-28635 *
US-PATENT-CLASS-357-30 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-30 ..... c 44 N78-24609 *
US-PATENT-CLASS-357-30 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-30 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-30 ..... c 44 N79-14528 *
US-PATENT-CLASS-357-30 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-30 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-30 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-30 ..... c 44 N81-29525 *
US-PATENT-CLASS-357-30 ..... c 44 N82-26777 *
US-PATENT-CLASS-357-30 ..... c 44 N82-29709 *
US-PATENT-CLASS-357-30 ..... c 44 N82-31764 *
US-PATENT-CLASS-357-30 ..... c 44 N83-13579 *
US-PATENT-CLASS-357-30 ..... c 44 N83-32177 *
US-PATENT-CLASS-357-30 ..... c 35 N84-33765 *
US-PATENT-CLASS-357-30 ..... c 33 N85-21492 *
US-PATENT-CLASS-357-30 ..... c 44 N85-21768 *
US-PATENT-CLASS-357-30 ..... c 44 N85-30475 *
US-PATENT-CLASS-357-30 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-30 ..... c 76 N86-20150 *
US-PATENT-CLASS-357-30 ..... c 44 N86-32875 *
US-PATENT-CLASS-357-30 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-30 ..... c 33 N87-23879 *
US-PATENT-CLASS-357-30 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-30 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-30 ..... c 76 N88-14836 *
US-PATENT-CLASS-357-30 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-30 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-30 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-30 ..... c 35 N91-14588 *
US-PATENT-CLASS-357-30 ..... c 33 N91-21434 *
US-PATENT-CLASS-357-30 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-30 ..... c 44 N91-27614 *
US-PATENT-CLASS-357-30 ..... c 76 N93-11056 *
US-PATENT-CLASS-357-30 ..... c 74 N93-13419 *
US-PATENT-CLASS-357-32 ..... c 35 N84-33765 *
US-PATENT-CLASS-357-32 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-34 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-35 ..... c 33 N87-23879 *
US-PATENT-CLASS-357-40 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-41 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-42 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-45 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-45 ..... c 44 N79-26475 *
US-PATENT-CLASS-357-46 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-46 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-47 ..... c 33 N92-16197 *
US-PATENT-CLASS-357-4 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-4 ..... c 76 N85-30922 *
US-PATENT-CLASS-357-4 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-4 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-4 ..... c 76 N92-22041 *
US-PATENT-CLASS-357-4 ..... c 76 N93-11056 *
US-PATENT-CLASS-357-50 ..... c 76 N85-30922 *
US-PATENT-CLASS-357-52 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-52 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-52 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-54 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-55 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-55 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-55 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-55 ..... c 33 N92-16197 *
US-PATENT-CLASS-357-56 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-58 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-58 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-58 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-59 ..... c 44 N76-28635 *
US-PATENT-CLASS-357-59 ..... c 44 N78-24609 *
US-PATENT-CLASS-357-59 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-59 ..... c 33 N86-19516 *

US-PATENT-CLASS-357-5 ..... c 33 N75-31332 *
US-PATENT-CLASS-357-5 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-5 ..... c 76 N92-22040 *
US-PATENT-CLASS-357-5 ..... c 76 N92-22041 *
US-PATENT-CLASS-357-60 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-61 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-61 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-63 ..... c 33 N76-31409 *
US-PATENT-CLASS-357-63 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-63 ..... c 44 N82-26777 *
US-PATENT-CLASS-357-65 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-65 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-65 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-65 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-67S ..... c 33 N91-21434 *
US-PATENT-CLASS-357-67 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-67 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-67 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-68 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-68 ..... c 33 N92-16197 *
US-PATENT-CLASS-357-69 ..... c 33 N92-16197 *
US-PATENT-CLASS-357-71S ..... c 33 N91-21434 *
US-PATENT-CLASS-357-72 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-73 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-74 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-74 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-76 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-79 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-7 ..... c 33 N75-31331 *
US-PATENT-CLASS-357-81 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-81 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-81 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-82 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-82 ..... c 76 N91-28014 *
US-PATENT-CLASS-357-83 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-90 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-91 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-91 ..... c 33 N78-27326 *
US-PATENT-CLASS-357-91 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-91 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-91 ..... c 44 N86-32875 *
US-PATENT-CLASS-358-101 ..... c 37 N86-21850 *
US-PATENT-CLASS-358-101 ..... c 32 N93-18284 *
US-PATENT-CLASS-358-103 ..... c 18 N92-28750 *
US-PATENT-CLASS-358-103 ..... c 32 N93-18284 *
US-PATENT-CLASS-358-104 ..... c 09 N78-18083 *
US-PATENT-CLASS-358-104 ..... c 74 N79-13855 *
US-PATENT-CLASS-358-104 ..... c 36 N83-34304 *
US-PATENT-CLASS-358-105 ..... c 39 N83-20280 *
US-PATENT-CLASS-358-105 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-105 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-105 ..... c 54 N92-29129 *
US-PATENT-CLASS-358-106 ..... c 39 N78-16387 *
US-PATENT-CLASS-358-107 ..... c 35 N79-18296 *
US-PATENT-CLASS-358-107 ..... c 36 N88-24958 *
US-PATENT-CLASS-358-108 ..... c 32 N93-18284 *
US-PATENT-CLASS-358-109 ..... c 32 N79-20297 *
US-PATENT-CLASS-358-109 ..... c 33 N81-33403 *
US-PATENT-CLASS-358-109 ..... c 43 N82-13465 *
US-PATENT-CLASS-358-109 ..... c 36 N83-34304 *
US-PATENT-CLASS-358-109 ..... c 32 N85-29117 *
US-PATENT-CLASS-358-109 ..... c 35 N90-22769 *
US-PATENT-CLASS-358-111 ..... c 52 N79-10724 *
US-PATENT-CLASS-358-113 ..... c 35 N90-22770 *
US-PATENT-CLASS-358-125 ..... c 74 N84-23247 *
US-PATENT-CLASS-358-125 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-12 ..... c 74 N92-33017 *
US-PATENT-CLASS-358-133 ..... c 32 N77-24328 *
US-PATENT-CLASS-358-133 ..... c 32 N85-29117 *
US-PATENT-CLASS-358-133 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-133 ..... c 32 N92-10128 *
US-PATENT-CLASS-358-133 ..... c 74 N93-18276 *
US-PATENT-CLASS-358-135 ..... c 32 N92-10128 *
US-PATENT-CLASS-358-138 ..... c 32 N77-24328 *
US-PATENT-CLASS-358-138 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-142 ..... c 74 N78-14889 *
US-PATENT-CLASS-358-160 ..... c 60 N92-16563 *
US-PATENT-CLASS-358-161 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-168 ..... c 32 N86-20647 *
US-PATENT-CLASS-358-174 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-181 ..... c 32 N93-18284 *
US-PATENT-CLASS-358-183 ..... c 60 N92-16563 *
US-PATENT-CLASS-358-213 ..... c 33 N81-33403 *
US-PATENT-CLASS-358-213 ..... c 33 N82-24416 *
US-PATENT-CLASS-358-213 ..... c 74 N84-23247 *
US-PATENT-CLASS-358-217 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-219 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-222 ..... c 74 N86-28732 *
US-PATENT-CLASS-358-225 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-22 ..... c 60 N92-16563 *
US-PATENT-CLASS-358-231 ..... c 74 N93-13711 *
US-PATENT-CLASS-358-232 ..... c 74 N93-13711 *
US-PATENT-CLASS-358-36 ..... c 32 N75-21485 *
US-PATENT-CLASS-358-41 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-44 ..... c 74 N77-18893 *
US-PATENT-CLASS-358-55 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-61 ..... c 74 N93-13711 *
US-PATENT-CLASS-358-81 ..... c 32 N79-20297 *
US-PATENT-CLASS-358-88 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-88 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-88 ..... c 74 N92-16809 *
US-PATENT-CLASS-358-88 ..... c 74 N93-18276 *
US-PATENT-CLASS-358-91 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-91 ..... c 74 N92-16809 *
US-PATENT-CLASS-358-92 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-92 ..... c 74 N92-16809 *
US-PATENT-CLASS-358-93 ..... c 35 N90-22770 *
US-PATENT-CLASS-358-96 ..... c 52 N79-10724 *
US-PATENT-CLASS-359.849 ..... c 74 N92-29122 *
US-PATENT-CLASS-359-107 ..... c 60 N92-33057 *
US-PATENT-CLASS-359-108 ..... c 60 N92-33057 *
US-PATENT-CLASS-359-11 ..... c 74 N92-16808 *
US-PATENT-CLASS-359-161 ..... c 36 N93-18287 *
US-PATENT-CLASS-359-230 ..... c 37 N92-29151 *
US-PATENT-CLASS-359-236 ..... c 37 N92-29151 *
US-PATENT-CLASS-359-240 ..... c 74 N92-16808 *
US-PATENT-CLASS-359-241 ..... c 74 N92-16808 *
US-PATENT-CLASS-359-241 ..... c 74 N92-33028 *
US-PATENT-CLASS-359-246 ..... c 74 N92-29117 *
US-PATENT-CLASS-359-247 ..... c 74 N92-29117 *
US-PATENT-CLASS-359-281 ..... c 74 N92-29117 *
US-PATENT-CLASS-359-362 ..... c 74 N92-16810 *
US-PATENT-CLASS-359-498 ..... c 36 N92-16290 *
US-PATENT-CLASS-359-557 ..... c 74 N92-16811 *
US-PATENT-CLASS-359-559 ..... c 74 N92-33022 *
US-PATENT-CLASS-359-559 ..... c 60 N92-33057 *
US-PATENT-CLASS-359-561 ..... c 74 N92-33022 *
US-PATENT-CLASS-359-561 ..... c 60 N92-33057 *
US-PATENT-CLASS-359-572 ..... c 74 N92-16810 *
US-PATENT-CLASS-359-744 ..... c 74 N92-16810 *
US-PATENT-CLASS-359-7 ..... c 74 N92-33022 *
US-PATENT-CLASS-359-813 ..... c 74 N92-16811 *
US-PATENT-CLASS-359-819 ..... c 74 N92-16811 *
US-PATENT-CLASS-359-859 ..... c 74 N93-13419 *
US-PATENT-CLASS-36-119 ..... c 54 N78-17675 *
US-PATENT-CLASS-36-92 ..... c 54 N78-17675 *
US-PATENT-CLASS-360-101 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-10 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-25 ..... c 35 N77-17426 *
US-PATENT-CLASS-360-26 ..... c 33 N76-18353 *
US-PATENT-CLASS-360-31 ..... c 35 N77-17426 *
US-PATENT-CLASS-360-35 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-48 ..... c 60 N92-29132 *
US-PATENT-CLASS-360-51 ..... c 33 N76-18353 *
US-PATENT-CLASS-360-98.01 .... c 60 N92-29132 *
US-PATENT-CLASS-360-9 ..... c 35 N76-16391 *
US-PATENT-CLASS-361-100 ..... c 33 N83-34190 *
US-PATENT-CLASS-361-141 ..... c 33 N82-11357 *
US-PATENT-CLASS-361-148 ..... c 70 N92-29130 *
US-PATENT-CLASS-361-149 ..... c 70 N92-29130 *
US-PATENT-CLASS-361-170 ..... c 33 N79-28415 *
US-PATENT-CLASS-361-218 ..... c 03 N88-14083 *
US-PATENT-CLASS-361-222 ..... c 03 N88-14083 *
US-PATENT-CLASS-361-226 ..... c 28 N82-18401 *
US-PATENT-CLASS-361-230 ..... c 28 N82-18401 *
US-PATENT-CLASS-361-267 ..... c 70 N92-29130 *
US-PATENT-CLASS-361-283 ..... c 33 N82-26572 *
US-PATENT-CLASS-361-334 ..... c 35 N81-26431 *
US-PATENT-CLASS-361-383 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-384 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-385 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-395 ..... c 32 N78-24391 *
US-PATENT-CLASS-361-56 ..... c 33 N81-27397 *
US-PATENT-CLASS-361-65 ..... c 33 N90-20320 *
US-PATENT-CLASS-361-79 ..... c 33 N90-20320 *
US-PATENT-CLASS-361-91 ..... c 33 N81-27397 *
US-PATENT-CLASS-362-11 ..... c 74 N81-17886 *
US-PATENT-CLASS-362-241 ..... c 74 N81-17886 *
US-PATENT-CLASS-362-269 ..... c 17 N78-17140 *
US-PATENT-CLASS-363-100 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-101 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-101 ..... c 33 N81-19392 *
US-PATENT-CLASS-363-132 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-134 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-147 ..... c 44 N81-12542 *
US-PATENT-CLASS-363-16 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-17 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-19 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-21 ..... c 33 N81-19392 *
US-PATENT-CLASS-363-21 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-22 ..... c 33 N84-33663 *
US-PATENT-CLASS-363-23 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-24 ..... c 33 N81-33404 *
US-PATENT-CLASS-363-25 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-27 ..... c 44 N81-12542 *
US-PATENT-CLASS-363-36 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-40 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-47 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-49 ..... c 33 N84-33663 *
US-PATENT-CLASS-363-53 ..... c 33 N77-30365 *
US-PATENT-CLASS-363-54 ..... c 33 N83-34190 *
US-PATENT-CLASS-363-56 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-56 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-56 ..... c 33 N81-33404 *
US-PATENT-CLASS-363-57 ..... c 33 N78-10377 *
US-PATENT-CLASS-363-60 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-60 ..... c 44 N81-12542 *
US-PATENT-CLASS-363-60 ..... c 33 N93-18278 *
US-PATENT-CLASS-363-61 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-61 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-65 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-67 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-70 ..... c 33 N77-30365 *
US-PATENT-CLASS-363-71 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-71 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-71 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-71 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-71 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-78 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-87 ..... c 33 N83-10345 *
US-PATENT-CLASS-363-89 ..... c 33 N78-10377 *
US-PATENT-CLASS-363-95 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-97 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-97 ..... c 09 N88-28939 *
US-PATENT-CLASS-364-DIG.1 .... c 61 N93-18855 *
US-PATENT-CLASS-364-106 ..... c 07 N81-19115 *
US-PATENT-CLASS-364-120 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-131 ..... c 60 N89-26400 *
US-PATENT-CLASS-364-187 ..... c 61 N93-18855 *
US-PATENT-CLASS-364-191 ..... c 63 N92-33019 *
US-PATENT-CLASS-364-200 ..... c 62 N81-24779 *
US-PATENT-CLASS-364-200 ..... c 60 N81-27814 *
US-PATENT-CLASS-364-200 ..... c 60 N83-25378 *
US-PATENT-CLASS-364-200 ..... c 60 N83-32342 *
US-PATENT-CLASS-364-200 ..... c 32 N85-21428 *
US-PATENT-CLASS-364-200 ..... c 60 N85-21992 *
US-PATENT-CLASS-364-200 ..... c 60 N88-29310 *
US-PATENT-CLASS-364-200 ..... c 62 N91-25693 * #
US-PATENT-CLASS-364-228.3 .... c 62 N91-14769 *
US-PATENT-CLASS-364-229.4 .... c 60 N90-21527 *
US-PATENT-CLASS-364-229 ..... c 61 N93-18855 *
US-PATENT-CLASS-364-231.9 .... c 62 N91-14769 *
US-PATENT-CLASS-364-240 ..... c 61 N93-18855 *
US-PATENT-CLASS-364-243 ..... c 61 N93-18855 *
US-PATENT-CLASS-364-267.9 .... c 60 N90-21527 *
US-PATENT-CLASS-364-280 ..... c 62 N91-14769 *
US-PATENT-CLASS-364-281.3 .... c 62 N91-25693 * #
US-PATENT-CLASS-364-281.6 .... c 62 N91-25693 * #
US-PATENT-CLASS-364-281.8 .... c 62 N91-25693 * #
US-PATENT-CLASS-364-281 ..... c 62 N91-14769 *
US-PATENT-CLASS-364-281 ..... c 62 N91-25693 * #
US-PATENT-CLASS-364-300 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-300 ..... c 62 N91-14769 *
US-PATENT-CLASS-364-400 ..... c 33 N85-29142 *
US-PATENT-CLASS-364-402 ..... c 62 N92-15620 * #
US-PATENT-CLASS-364-413 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-415 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-415 ..... c 35 N84-12445 *
US-PATENT-CLASS-364-417 ..... c 52 N79-10724 *
US-PATENT-CLASS-364-424.01 .. c 54 N92-29129 *
US-PATENT-CLASS-364-427 ..... c 09 N90-20096 *
US-PATENT-CLASS-364-427 ..... c 04 N91-31120 *
US-PATENT-CLASS-364-428 ..... c 04 N91-31120 *
US-PATENT-CLASS-364-431 ..... c 07 N81-19115 *
US-PATENT-CLASS-364-433 ..... c 06 N86-27280 *
US-PATENT-CLASS-364-433 ..... c 09 N91-14356 *
US-PATENT-CLASS-364-434 ..... c 08 N79-23097 *
US-PATENT-CLASS-364-434 ..... c 08 N81-24106 *
US-PATENT-CLASS-364-435 ..... c 06 N86-27280 *
US-PATENT-CLASS-364-443 ..... c 47 N92-29148 *
US-PATENT-CLASS-364-452 ..... c 04 N84-27713 *
US-PATENT-CLASS-364-453 ..... c 18 N81-29152 *
US-PATENT-CLASS-364-453 ..... c 33 N85-29142 *
US-PATENT-CLASS-364-458 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-459 ..... c 18 N92-28750 *
US-PATENT-CLASS-364-478 ..... c 37 N91-21544 *
US-PATENT-CLASS-364-481 ..... c 33 N90-19492 *
US-PATENT-CLASS-364-482 ..... c 33 N90-19492 *
US-PATENT-CLASS-364-484 ..... c 33 N89-14385 *
US-PATENT-CLASS-364-487 ..... c 17 N91-14371 *
US-PATENT-CLASS-364-500 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-510 ..... c 34 N81-26402 *
US-PATENT-CLASS-364-513 ..... c 61 N91-14741 *
US-PATENT-CLASS-364-513 ..... c 37 N91-21542 *
US-PATENT-CLASS-364-513 ..... c 37 N91-21544 *
US-PATENT-CLASS-364-513 ..... c 33 N91-31528 *
US-PATENT-CLASS-364-513 ..... c 63 N91-31885 *
US-PATENT-CLASS-364-513 ..... c 62 N91-32852 *
US-PATENT-CLASS-364-514 ..... c 33 N81-33405 *
US-PATENT-CLASS-364-522 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-550 ..... c 17 N91-14371 *
US-PATENT-CLASS-364-556 ..... c 36 N85-29264 *
US-PATENT-CLASS-364-557 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-557 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-558 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-558 ..... c 07 N84-22559 *
US-PATENT-CLASS-364-559 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-560 ..... c 43 N79-26439 *

US-PATENT-CLASS-364-561 ..... c 36 N88-24958 *
US-PATENT-CLASS-364-566 ..... c 18 N81-29152 *
US-PATENT-CLASS-364-571 ..... c 34 N81-26402 *
US-PATENT-CLASS-364-571 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-571 ..... c 33 N85-34333 *
US-PATENT-CLASS-364-571 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-575 ..... c 74 N93-11058 *
US-PATENT-CLASS-364-578 ..... c 33 N85-34333 *
US-PATENT-CLASS-364-578 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-578 ..... c 61 N91-14741 *
US-PATENT-CLASS-364-578 ..... c 32 N91-25317 *
US-PATENT-CLASS-364-604 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-713 ..... c 32 N79-20297 *
US-PATENT-CLASS-364-713 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-717 ..... c 32 N82-31583 *
US-PATENT-CLASS-364-717 ..... c 33 N90-23636 *
US-PATENT-CLASS-364-723 ..... c 60 N85-33701 *
US-PATENT-CLASS-364-724.01 .. c 33 N89-28713 *
US-PATENT-CLASS-364-724.05 .. c 33 N89-28713 *
US-PATENT-CLASS-364-724.06 .. c 61 N93-14882 *
US-PATENT-CLASS-364-724.07 .. c 61 N93-14882 *
US-PATENT-CLASS-364-724.08 .. c 61 N93-14882 *
US-PATENT-CLASS-364-728 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-728 ..... c 60 N86-21154 *
US-PATENT-CLASS-364-728 ..... c 60 N88-24169 *
US-PATENT-CLASS-364-735 ..... c 33 N89-28713 *
US-PATENT-CLASS-364-746.1 .... c 33 N90-23636 *
US-PATENT-CLASS-364-754 ..... c 33 N89-28713 *
US-PATENT-CLASS-364-757 ..... c 60 N88-24169 *
US-PATENT-CLASS-364-807 ..... c 62 N91-32852 *
US-PATENT-CLASS-364-807 ..... c 32 N92-22033 *
US-PATENT-CLASS-364-822 ..... c 32 N83-18975 *
US-PATENT-CLASS-364-822 ..... c 74 N86-21348 *
US-PATENT-CLASS-364-822 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-825 ..... c 33 N82-24417 *
US-PATENT-CLASS-364-837 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-841 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-853 ..... c 60 N85-33701 *
US-PATENT-CLASS-364-861 ..... c 32 N83-18975 *
US-PATENT-CLASS-364-900 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-900 ..... c 60 N79-20751 *
US-PATENT-CLASS-364-900 ..... c 60 N81-27814 *
US-PATENT-CLASS-364-900 ..... c 60 N83-32342 *
US-PATENT-CLASS-364-900 ..... c 60 N84-28491 *
US-PATENT-CLASS-364-900 ..... c 60 N84-28492 *
US-PATENT-CLASS-364-900 ..... c 33 N89-14384 *
US-PATENT-CLASS-364-900 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-924.4 .... c 35 N90-23713 *
US-PATENT-CLASS-364-925.1 .... c 35 N90-23713 *
US-PATENT-CLASS-364-933.8 .... c 35 N90-23713 *
US-PATENT-CLASS-364-934 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-940.67 .. c 60 N90-21527 *
US-PATENT-CLASS-364-942.51 .. c 60 N90-21527 *
US-PATENT-CLASS-364-944 ..... c 60 N90-21527 *
US-PATENT-CLASS-364-975.5 .... c 60 N90-21527 *
US-PATENT-CLASS-365-120 ..... c 33 N81-29342 *
US-PATENT-CLASS-365-156 ..... c 60 N91-31810 *
US-PATENT-CLASS-365-158 ..... c 60 N93-14704 *
US-PATENT-CLASS-365-173 ..... c 60 N93-14704 *
US-PATENT-CLASS-365-200 ..... c 60 N91-31810 *
US-PATENT-CLASS-365-49 ..... c 60 N92-33057 *
US-PATENT-CLASS-365-768 ..... c 32 N86-27513 *
US-PATENT-CLASS-366-106 ..... c 71 N84-28568 *
US-PATENT-CLASS-366-114 ..... c 71 N83-35781 *
US-PATENT-CLASS-367-100 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-102 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-156 ..... c 33 N92-15331 *
US-PATENT-CLASS-367-181 ..... c 33 N82-26572 *
US-PATENT-CLASS-367-189 ..... c 35 N84-22933 *
US-PATENT-CLASS-367-191 ..... c 71 N88-24241 *
US-PATENT-CLASS-367-26 ..... c 39 N80-10507 *
US-PATENT-CLASS-367-27 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-36 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-57 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-88 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-88 ..... c 32 N83-31918 *
US-PATENT-CLASS-367-88 ..... c 43 N86-19711 *
US-PATENT-CLASS-367-904 ..... c 36 N93-18287 *
US-PATENT-CLASS-367-908 ..... c 35 N89-14407 *
US-PATENT-CLASS-367-95 ..... c 32 N82-23376 *
US-PATENT-CLASS-367-99 ..... c 32 N87-14559 *
US-PATENT-CLASS-368-184 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-200 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-201 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-47 ..... c 33 N81-14221 *
US-PATENT-CLASS-369-32 ..... c 60 N92-29132 *
US-PATENT-CLASS-369-44.26 .... c 74 N92-29133 *
US-PATENT-CLASS-369-95 ..... c 60 N92-29132 *
US-PATENT-CLASS-37N ..... c 27 N81-15104 *
US-PATENT-CLASS-370-100 ..... c 60 N82-16747 *
US-PATENT-CLASS-370-16 ..... c 62 N90-19776 *
US-PATENT-CLASS-370-58 ..... c 60 N81-27814 *
US-PATENT-CLASS-370-67 ..... c 33 N82-29538 *
US-PATENT-CLASS-370-85.4 ..... c 62 N91-14772 *
US-PATENT-CLASS-370-85.6 ..... c 62 N91-14772 *
US-PATENT-CLASS-370-85.9 ..... c 62 N91-14772 *
US-PATENT-CLASS-370-85 ..... c 33 N81-14221 *
US-PATENT-CLASS-370-94.3 ..... c 62 N91-14772 *
US-PATENT-CLASS-371-041 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-043 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-11.3 ..... c 60 N90-21527 *
US-PATENT-CLASS-371-20 ..... c 33 N81-26359 *
US-PATENT-CLASS-371-25 ..... c 33 N81-26359 *
US-PATENT-CLASS-371-37.1 ..... c 33 N92-33011 *
US-PATENT-CLASS-371-37.4 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-37 ..... c 60 N87-21591 *
US-PATENT-CLASS-371-38.1 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-40.1 ..... c 60 N91-31810 *
US-PATENT-CLASS-371-40 ..... c 60 N87-21591 *
US-PATENT-CLASS-371-43 ..... c 33 N87-25531 *
US-PATENT-CLASS-371-43 ..... c 32 N91-14523 *
US-PATENT-CLASS-371-63 ..... c 17 N87-16863 *
US-PATENT-CLASS-371-68 ..... c 60 N82-29013 *
US-PATENT-CLASS-371-6 ..... c 32 N83-13323 *
US-PATENT-CLASS-371-8 ..... c 62 N90-19776 *
US-PATENT-CLASS-372-100 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-103 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-103 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-105 ..... c 36 N92-16290 *
US-PATENT-CLASS-372-108 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-108 ..... c 36 N93-14703 *
US-PATENT-CLASS-372-18 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-19 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-20 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-20 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-20 ..... c 36 N93-14703 *
US-PATENT-CLASS-372-25 ..... c 33 N83-34189 *
US-PATENT-CLASS-372-25 ..... c 36 N92-31788 *
US-PATENT-CLASS-372-28 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-30 ..... c 36 N92-31788 *
US-PATENT-CLASS-372-32 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-32 ..... c 33 N85-34333 *
US-PATENT-CLASS-372-38 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-39 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-41 ..... c 36 N91-15528 *
US-PATENT-CLASS-372-43 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-45 ..... c 36 N93-13418 *
US-PATENT-CLASS-372-46 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-46 ..... c 36 N93-13418 *
US-PATENT-CLASS-372-4 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-4 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-50 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-55 ..... c 36 N84-16542 *
US-PATENT-CLASS-372-56 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-56 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-58 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-59 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-59 ..... c 25 N90-20154 *
US-PATENT-CLASS-372-59 ..... c 25 N91-21270 *
US-PATENT-CLASS-372-60 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-61 ..... c 74 N87-14971 *
US-PATENT-CLASS-372-66 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-68 ..... c 36 N87-23961 *
US-PATENT-CLASS-372-69 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-70 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-71 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-71 ..... c 36 N91-15528 *
US-PATENT-CLASS-372-74 ..... c 35 N84-12444 *
US-PATENT-CLASS-372-75 ..... c 36 N91-15528 *
US-PATENT-CLASS-372-79 ..... c 36 N84-16542 *
US-PATENT-CLASS-372-79 ..... c 36 N86-29204 *
US-PATENT-CLASS-372-81 ..... c 36 N87-23961 *
US-PATENT-CLASS-372-82 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-93 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-93 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-94 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-95 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-95 ..... c 36 N93-18277 *
US-PATENT-CLASS-372-96 ..... c 36 N93-14703 *
US-PATENT-CLASS-372-98 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-99 ..... c 36 N87-25567 *
US-PATENT-CLASS-373-10 ..... c 35 N87-23944 *
US-PATENT-CLASS-373-15 ..... c 35 N87-23944 *
US-PATENT-CLASS-374-112 ..... c 47 N92-29148 *
US-PATENT-CLASS-374-115 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-117 ..... c 52 N85-30618 *
US-PATENT-CLASS-374-120 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-122 ..... c 06 N83-10040 *
US-PATENT-CLASS-374-122 ..... c 43 N85-21723 *
US-PATENT-CLASS-374-122 ..... c 32 N87-21206 *
US-PATENT-CLASS-374-123 ..... c 06 N83-10040 *
US-PATENT-CLASS-374-124 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-124 ..... c 35 N92-21710 *
US-PATENT-CLASS-374-126 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-130 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-135 ..... c 35 N92-21710 *
US-PATENT-CLASS-374-137 ..... c 36 N85-21639 *
US-PATENT-CLASS-374-160 ..... c 52 N85-30618 *
US-PATENT-CLASS-374-162R .... c 74 N82-30071 *
US-PATENT-CLASS-374-162 ..... c 35 N90-22770 *
US-PATENT-CLASS-374-163 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-175 ..... c 33 N92-33021 *
US-PATENT-CLASS-374-178 ..... c 35 N92-33614 *
US-PATENT-CLASS-374-17 ..... c 35 N83-29650 *
US-PATENT-CLASS-374-180 ..... c 35 N91-31608 *
US-PATENT-CLASS-374-183 ..... c 33 N86-32624 *
US-PATENT-CLASS-374-185 ..... c 35 N92-33614 *
US-PATENT-CLASS-374-1 ..... c 35 N84-28019 *
US-PATENT-CLASS-374-208 ..... c 37 N85-21651 *
US-PATENT-CLASS-374-208 ..... c 35 N91-31608 *
US-PATENT-CLASS-374-210 ..... c 37 N85-21651 *
US-PATENT-CLASS-374-29 ..... c 35 N91-31608 *
US-PATENT-CLASS-374-29 ..... c 35 N92-22038 *
US-PATENT-CLASS-374-36 ..... c 25 N88-29002 *
US-PATENT-CLASS-374-45 ..... c 38 N92-29154 *
US-PATENT-CLASS-374-46 ..... c 34 N83-34221 *
US-PATENT-CLASS-374-46 ..... c 25 N86-19413 *
US-PATENT-CLASS-374-49 ..... c 14 N91-27175 *
US-PATENT-CLASS-374-4 ..... c 38 N92-29154 *
US-PATENT-CLASS-374-4 ..... c 09 N93-11057 *
US-PATENT-CLASS-374-50 ..... c 14 N91-27175 *
US-PATENT-CLASS-374-51 ..... c 39 N83-32081 *
US-PATENT-CLASS-374-57 ..... c 09 N93-11057 *
US-PATENT-CLASS-374-5 ..... c 09 N93-11057 *
US-PATENT-CLASS-374-8 ..... c 25 N86-19413 *
US-PATENT-CLASS-374-8 ..... c 09 N91-21157 *
US-PATENT-CLASS-374-8 ..... c 25 N91-32196 *
US-PATENT-CLASS-374-9 ..... c 32 N87-21206 *
US-PATENT-CLASS-375-101 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-102 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-104 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-106 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-106 ..... c 32 N82-31583 *
US-PATENT-CLASS-375-107 ..... c 32 N81-14186 *
US-PATENT-CLASS-375-110 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-114 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-115 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-116 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-120 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-120 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-120 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-1 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-1 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-1 ..... c 33 N81-33405 *
US-PATENT-CLASS-375-23 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-34 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-39 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-53 ..... c 32 N91-14523 *
US-PATENT-CLASS-375-53 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-53 ..... c 32 N91-25318 *
US-PATENT-CLASS-375-53 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-54 ..... c 33 N81-15192 *
US-PATENT-CLASS-375-54 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-54 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-56 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-56 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-57 ..... c 32 N91-14523 *
US-PATENT-CLASS-375-58 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-59 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-67 ..... c 33 N81-15192 *
US-PATENT-CLASS-375-76 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-77 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-80 ..... c 04 N91-14321 *
US-PATENT-CLASS-375-80 ..... c 32 N92-21712 *
US-PATENT-CLASS-375-81 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-85 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-85 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-86 ..... c 32 N91-25318 *
US-PATENT-CLASS-375-86 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-88 ..... c 17 N87-16863 *
US-PATENT-CLASS-375-94 ..... c 04 N91-14321 *
US-PATENT-CLASS-375-94 ..... c 32 N92-21712 *
US-PATENT-CLASS-375-97 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-99 ..... c 35 N81-19427 *
US-PATENT-CLASS-376-127 ..... c 72 N87-21661 *
US-PATENT-CLASS-376-159 ..... c 25 N85-21279 *
US-PATENT-CLASS-377-111 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-114 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-116 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-123 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-126 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-39 ..... c 33 N89-14385 *
US-PATENT-CLASS-377-69 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-79 ..... c 60 N90-21525 *
US-PATENT-CLASS-378-104 ..... c 33 N85-29147 *
US-PATENT-CLASS-378-112 ..... c 33 N85-29147 *
US-PATENT-CLASS-378-145 ..... c 74 N93-14711 *
US-PATENT-CLASS-378-210 ..... c 35 N92-29135 *
US-PATENT-CLASS-378-210 ..... c 89 N92-33012 * #
US-PATENT-CLASS-378-2 ..... c 34 N83-19015 *
US-PATENT-CLASS-378-2 ..... c 74 N84-11920 *
US-PATENT-CLASS-378-43 ..... c 34 N83-19015 *
US-PATENT-CLASS-378-43 ..... c 74 N86-20124 *
US-PATENT-CLASS-378-43 ..... c 35 N92-29135 *
US-PATENT-CLASS-378-43 ..... c 89 N92-33012 * #
US-PATENT-CLASS-378-51 ..... c 38 N90-23756 *
US-PATENT-CLASS-378-58 ..... c 74 N86-20126 *
US-PATENT-CLASS-378-58 ..... c 38 N90-23756 *

US-PATENT-CLASS-378-59 ..... c 74 N86-20126 *
US-PATENT-CLASS-378-85 ..... c 74 N86-20124 *
US-PATENT-CLASS-378-85 ..... c 74 N93-14711 *
US-PATENT-CLASS-380-25 ..... c 60 N90-25583 *
US-PATENT-CLASS-380-45 ..... c 60 N90-25583 *
US-PATENT-CLASS-380-49 ..... c 60 N90-25583 *
US-PATENT-CLASS-381-183 ..... c 54 N89-29953 *
US-PATENT-CLASS-381-187 ..... c 54 N89-29953 *
US-PATENT-CLASS-381-26 ..... c 35 N91-27522 *
US-PATENT-CLASS-381-43 ..... c 61 N93-18858 *
US-PATENT-CLASS-381-68.1 ..... c 35 N91-27522 *
US-PATENT-CLASS-381-71 ..... c 71 N91-27913 *
US-PATENT-CLASS-381-92 ..... c 35 N91-27522 *
US-PATENT-CLASS-381-94 ..... c 71 N91-27913 *
US-PATENT-CLASS-382-10 ..... c 61 N93-18858 *
US-PATENT-CLASS-382-1 ..... c 54 N92-29129 *
US-PATENT-CLASS-382-1 ..... c 61 N93-18282 *
US-PATENT-CLASS-382-22 ..... c 54 N92-29129 *
US-PATENT-CLASS-382-26 ..... c 74 N93-11058 *
US-PATENT-CLASS-382-30 ..... c 61 N93-18858 *
US-PATENT-CLASS-382-31 ..... c 74 N89-14078 *
US-PATENT-CLASS-382-31 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-31 ..... c 60 N92-33057 *
US-PATENT-CLASS-382-32 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-32 ..... c 60 N92-33057 *
US-PATENT-CLASS-382-36 ..... c 61 N93-18282 *
US-PATENT-CLASS-382-41 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-42 ..... c 74 N86-21348 *
US-PATENT-CLASS-382-42 ..... c 60 N88-24169 *
US-PATENT-CLASS-382-42 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-43 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-49 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-49 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-6 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-6 ..... c 61 N93-18282 *
US-PATENT-CLASS-384-101 ..... c 37 N85-33490 *
US-PATENT-CLASS-384-103 ..... c 37 N86-19606 *
US-PATENT-CLASS-384-106 ..... c 37 N86-19606 *
US-PATENT-CLASS-384-124 ..... c 27 N83-34043 *
US-PATENT-CLASS-384-99 ..... c 37 N85-33490 *
US-PATENT-CLASS-388-821 ..... c 33 N90-21951 *
US-PATENT-CLASS-39-25.35 ..... c 33 N86-20671 *
US-PATENT-CLASS-395-24 ..... c 32 N92-22033 *
US-PATENT-CLASS-395-500 ..... c 61 N93-18855 *
US-PATENT-CLASS-395-800 ..... c 61 N93-18855 *
US-PATENT-CLASS-395-86 ..... c 37 N92-22036 *
US-PATENT-CLASS-395-90 ..... c 63 N92-33019 *
US-PATENT-CLASS-395-95 ..... c 37 N92-22036 *
US-PATENT-CLASS-4-DIG.9 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-10 ..... c 54 N74-20725 *
US-PATENT-CLASS-4-110 ..... c 05 N72-22093 *
US-PATENT-CLASS-4-120 ..... c 54 N74-20725 *
US-PATENT-CLASS-4-144.3 ..... c 52 N81-24711 *
US-PATENT-CLASS-4-144.3 ..... c 52 N81-28740 *
US-PATENT-CLASS-4-209R ..... c 54 N91-14723 *
US-PATENT-CLASS-4-316 ..... c 54 N91-14723 *
US-PATENT-CLASS-4-316 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-482 ..... c 54 N91-14723 *
US-PATENT-CLASS-4-482 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-498 ..... c 44 N84-34792 *
US-PATENT-CLASS-4-661 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-661 ..... c 54 N92-29137 *
US-PATENT-CLASS-4-99 ..... c 05 N72-22093 *
US-PATENT-CLASS-40-28 ..... c 12 N71-18603 *
US-PATENT-CLASS-40-703 ..... c 35 N92-22038 *
US-PATENT-CLASS-403-DIG.1 .... c 31 N92-16161 *
US-PATENT-CLASS-403-102 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-102 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-105 ..... c 37 N79-14382 *
US-PATENT-CLASS-403-113 ..... c 37 N86-19605 *
US-PATENT-CLASS-403-113 ..... c 37 N91-17387 *
US-PATENT-CLASS-403-119 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-120 ..... c 37 N86-19605 *
US-PATENT-CLASS-403-131 ..... c 37 N91-21543 *
US-PATENT-CLASS-403-13 ..... c 37 N92-29140 *
US-PATENT-CLASS-403-143 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-146 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-146 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-147 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-156 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-15 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-163 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-164 ..... c 54 N86-29507 * #
US-PATENT-CLASS-403-16 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-171 ..... c 31 N81-25258 *
US-PATENT-CLASS-403-171 ..... c 31 N86-19479 *
US-PATENT-CLASS-403-171 ..... c 37 N88-29180 *
US-PATENT-CLASS-403-171 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-171 ..... c 18 N91-21221 *
US-PATENT-CLASS-403-176 ..... c 18 N91-21221 *
US-PATENT-CLASS-403-179 ..... c 27 N76-14264 *
US-PATENT-CLASS-403-217 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-217 ..... c 37 N88-29180 *
US-PATENT-CLASS-403-24 ..... c 37 N92-29140 *
US-PATENT-CLASS-403-252 ..... c 18 N91-21221 *
US-PATENT-CLASS-403-273 ..... c 37 N77-23482 *
US-PATENT-CLASS-403-282 ..... c 26 N83-10170 *
US-PATENT-CLASS-403-28 ..... c 27 N76-14264 *
US-PATENT-CLASS-403-28 ..... c 37 N85-29285 *
US-PATENT-CLASS-403-28 ..... c 37 N92-29120 *
US-PATENT-CLASS-403-291 ..... c 37 N91-17387 *
US-PATENT-CLASS-403-30 ..... c 18 N89-28554 *
US-PATENT-CLASS-403-312 ..... c 37 N86-27630 *
US-PATENT-CLASS-403-315 ..... c 37 N82-24494 *
US-PATENT-CLASS-403-317 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-317 ..... c 37 N85-21649 *
US-PATENT-CLASS-403-317 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-322 ..... c 18 N84-22605 *
US-PATENT-CLASS-403-322 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-322 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-322 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-322 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-325 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-327 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-327 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-328 ..... c 18 N86-20469 *
US-PATENT-CLASS-403-328 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-328 ..... c 31 N92-16161 *
US-PATENT-CLASS-403-331 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-331 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-331 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-334 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-340 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-341 ..... c 18 N87-27713 *
US-PATENT-CLASS-403-348 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-381 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-385 ..... c 37 N91-14617 *
US-PATENT-CLASS-403-388 ..... c 37 N86-27630 *
US-PATENT-CLASS-403-391 ..... c 37 N91-14617 *
US-PATENT-CLASS-403-404 ..... c 37 N92-29120 *
US-PATENT-CLASS-403-408.1 .... c 37 N86-27630 *
US-PATENT-CLASS-403-408 ..... c 37 N85-29285 *
US-PATENT-CLASS-403-4 ..... c 18 N89-28554 *
US-PATENT-CLASS-403-51 ..... c 18 N89-28553 *
US-PATENT-CLASS-403-56 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-57 ..... c 37 N91-17387 *
US-PATENT-CLASS-403-64 ..... c 31 N86-19479 *
US-PATENT-CLASS-403-72 ..... c 18 N91-27199 *
US-PATENT-CLASS-403-76 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-85 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-90 ..... c 18 N85-29991 *
US-PATENT-CLASS-405-188 ..... c 18 N90-20126 *
US-PATENT-CLASS-405-188 ..... c 18 N91-14374 *
US-PATENT-CLASS-405-229 ..... c 44 N79-24432 *
US-PATENT-CLASS-405-263 ..... c 44 N79-24432 *
US-PATENT-CLASS-406-155 ..... c 37 N84-16561 *
US-PATENT-CLASS-407-117 ..... c 37 N81-14319 *
US-PATENT-CLASS-407-85 ..... c 37 N81-14319 *
US-PATENT-CLASS-408-1-R ..... c 31 N87-25491 *
US-PATENT-CLASS-408-1R ..... c 37 N81-14319 *
US-PATENT-CLASS-408-1R ..... c 31 N83-27058 *
US-PATENT-CLASS-408-111 ..... c 37 N74-25968 *
US-PATENT-CLASS-408-112 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-124 ..... c 37 N93-14710 *
US-PATENT-CLASS-408-124 ..... c 37 N93-18286 *
US-PATENT-CLASS-408-137 ..... c 15 N71-33518 *
US-PATENT-CLASS-408-14 ..... c 35 N92-21723 *
US-PATENT-CLASS-408-16 ..... c 35 N92-21723 *
US-PATENT-CLASS-408-186 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-193 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-195 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-239R .... c 37 N93-14710 *
US-PATENT-CLASS-408-239R .... c 37 N93-18286 *
US-PATENT-CLASS-408-241R .... c 37 N93-14710 *
US-PATENT-CLASS-408-241R .... c 37 N93-18286 *
US-PATENT-CLASS-408-241S .... c 35 N92-21723 *
US-PATENT-CLASS-408-61 ..... c 31 N83-27058 *
US-PATENT-CLASS-408-80 ..... c 37 N74-25968 *
US-PATENT-CLASS-409-131 ..... c 31 N83-27058 *
US-PATENT-CLASS-41R ..... c 27 N81-15104 *
US-PATENT-CLASS-410-156 ..... c 37 N85-34401 *
US-PATENT-CLASS-410-79 ..... c 18 N85-29991 *
US-PATENT-CLASS-410-80 ..... c 37 N91-27561 *
US-PATENT-CLASS-410-84 ..... c 37 N91-27561 *
US-PATENT-CLASS-410-90 ..... c 18 N85-29991 *
US-PATENT-CLASS-411-103 ..... c 37 N85-30335 *
US-PATENT-CLASS-411-108 ..... c 37 N85-30335 *
US-PATENT-CLASS-411-14 ..... c 37 N92-29150 *
US-PATENT-CLASS-411-166 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-267 ..... c 37 N92-29150 *
US-PATENT-CLASS-411-267 ..... c 37 N93-13423 *
US-PATENT-CLASS-411-348 ..... c 31 N92-16161 *
US-PATENT-CLASS-411-353 ..... c 37 N83-19091 *
US-PATENT-CLASS-411-354 ..... c 37 N92-21726 *
US-PATENT-CLASS-411-368 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-368 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-378 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-385 ..... c 37 N92-21726 *
US-PATENT-CLASS-411-424 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-426 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-427 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-433 ..... c 37 N92-29150 *
US-PATENT-CLASS-411-433 ..... c 37 N93-13423 *
US-PATENT-CLASS-411-501 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-517 ..... c 37 N83-19091 *
US-PATENT-CLASS-411-531 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-531 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-65 ..... c 37 N92-21726 *
US-PATENT-CLASS-411-901 ..... c 37 N92-21726 *
US-PATENT-CLASS-411-908 ..... c 37 N92-21726 *
US-PATENT-CLASS-411-909 ..... c 37 N92-29120 *
US-PATENT-CLASS-411-909 ..... c 37 N93-13423 *
US-PATENT-CLASS-414-1 ..... c 37 N80-14398 *
US-PATENT-CLASS-414-1 ..... c 37 N81-14320 *
US-PATENT-CLASS-414-1 ..... c 54 N86-28618 *
US-PATENT-CLASS-414-217 ..... c 37 N85-29286 *
US-PATENT-CLASS-414-217 ..... c 31 N91-15423 *
US-PATENT-CLASS-414-220 ..... c 31 N91-15423 *
US-PATENT-CLASS-414-222 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-226 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-288 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-328 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-373 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-4 ..... c 37 N79-28551 *
US-PATENT-CLASS-414-4 ..... c 54 N81-26718 *
US-PATENT-CLASS-414-4 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-5 ..... c 54 N86-28618 *
US-PATENT-CLASS-414-689 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-6 ..... c 54 N79-24652 *
US-PATENT-CLASS-414-718 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-718 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-729 ..... c 37 N91-14616 *
US-PATENT-CLASS-414-730 ..... c 37 N81-27519 *
US-PATENT-CLASS-414-730 ..... c 37 N86-19603 *
US-PATENT-CLASS-414-735 ..... c 54 N81-26718 *
US-PATENT-CLASS-414-735 ..... c 18 N88-23828 *
US-PATENT-CLASS-414-735 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-737 ..... c 37 N92-33018 *
US-PATENT-CLASS-414-739 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-744A .... c 54 N81-26718 *
US-PATENT-CLASS-414-750 ..... c 18 N88-23828 *
US-PATENT-CLASS-414-753 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-786 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-7 ..... c 54 N86-28618 *
US-PATENT-CLASS-414-7 ..... c 54 N86-28620 *
US-PATENT-CLASS-414-7 ..... c 37 N91-14616 *
US-PATENT-CLASS-414-8 ..... c 54 N86-28618 *
US-PATENT-CLASS-415-DIG.8 .... c 44 N82-24639 *
US-PATENT-CLASS-415-DIG.8 .... c 44 N84-23018 *
US-PATENT-CLASS-415-101 ..... c 44 N80-21828 *
US-PATENT-CLASS-415-115 ..... c 07 N79-10057 *
US-PATENT-CLASS-415-115 ..... c 34 N83-27144 *
US-PATENT-CLASS-415-115 ..... c 07 N84-33410 *
US-PATENT-CLASS-415-115 ..... c 34 N85-33433 *
US-PATENT-CLASS-415-116 ..... c 07 N79-10057 *
US-PATENT-CLASS-415-118 ..... c 35 N83-35338 *
US-PATENT-CLASS-415-136 ..... c 37 N88-23978 *
US-PATENT-CLASS-415-143 ..... c 34 N79-20335 *
US-PATENT-CLASS-415-145 ..... c 07 N77-28118 *
US-PATENT-CLASS-415-145 ..... c 07 N82-32366 *
US-PATENT-CLASS-415-170.1 .... c 37 N91-14608 *
US-PATENT-CLASS-415-170-R .... c 37 N88-23978 *
US-PATENT-CLASS-415-174.5 .... c 37 N91-14608 *
US-PATENT-CLASS-415-174 ..... c 37 N79-18318 *
US-PATENT-CLASS-415-174 ..... c 37 N80-26658 *
US-PATENT-CLASS-415-174 ..... c 37 N82-19540 *
US-PATENT-CLASS-415-174 ..... c 27 N82-29453 *
US-PATENT-CLASS-415-174 ..... c 18 N83-20996 *
US-PATENT-CLASS-415-174 ..... c 37 N84-22957 *
US-PATENT-CLASS-415-174 ..... c 37 N86-20788 *
US-PATENT-CLASS-415-175 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-178 ..... c 07 N82-32366 *
US-PATENT-CLASS-415-178 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-180 ..... c 07 N77-23106 *
US-PATENT-CLASS-415-180 ..... c 37 N78-10467 *
US-PATENT-CLASS-415-181 ..... c 07 N74-28226 *
US-PATENT-CLASS-415-181 ..... c 07 N74-31270 *
US-PATENT-CLASS-415-196 ..... c 37 N80-26658 *
US-PATENT-CLASS-415-196 ..... c 37 N82-19540 *
US-PATENT-CLASS-415-197 ..... c 18 N83-20996 *
US-PATENT-CLASS-415-199 ..... c 05 N80-14107 *
US-PATENT-CLASS-415-1 ..... c 34 N79-20335 *
US-PATENT-CLASS-415-1 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-1 ..... c 37 N85-29282 *
US-PATENT-CLASS-415-2R ..... c 44 N82-24639 *
US-PATENT-CLASS-415-2R ..... c 44 N84-23018 *
US-PATENT-CLASS-415-200 ..... c 07 N79-14096 *
US-PATENT-CLASS-415-200 ..... c 37 N79-18318 *
US-PATENT-CLASS-415-201 ..... c 07 N79-14096 *
US-PATENT-CLASS-415-229 ..... c 37 N91-14608 *
US-PATENT-CLASS-415-2 ..... c 44 N80-21828 *
US-PATENT-CLASS-415-47 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-68 ..... c 37 N85-29282 *
US-PATENT-CLASS-415-9 ..... c 44 N79-14527 *
US-PATENT-CLASS-416-104 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-114 ..... c 05 N81-19087 *
US-PATENT-CLASS-416-114 ..... c 08 N87-23631 *
US-PATENT-CLASS-416-115 ..... c 02 N72-11018 *

US-PATENT-CLASS-416-117 ..... c 37 N84-12493 *
US-PATENT-CLASS-416-121 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-127 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-130 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-132B .... c 37 N84-12493 *
US-PATENT-CLASS-416-132R .... c 05 N79-17847 *
US-PATENT-CLASS-416-135 ..... c 07 N77-32148 *
US-PATENT-CLASS-416-135 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-138 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-138 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-141 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-141 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-144 ..... c 35 N78-24515 *
US-PATENT-CLASS-416-145 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-149 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-153 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-157B .... c 07 N79-14095 *
US-PATENT-CLASS-416-158 ..... c 08 N87-23631 *
US-PATENT-CLASS-416-160 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-160 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-162 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-162 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-165 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-167 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-167 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-190 ..... c 07 N77-32148 *
US-PATENT-CLASS-416-193A .... c 07 N77-32148 *
US-PATENT-CLASS-416-1 ..... c 34 N83-27144 *
US-PATENT-CLASS-416-200 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-214A .... c 07 N78-33101 *
US-PATENT-CLASS-416-220R .... c 07 N77-27116 *
US-PATENT-CLASS-416-220R .... c 37 N78-10468 *
US-PATENT-CLASS-416-221 ..... c 07 N77-27116 *
US-PATENT-CLASS-416-223-R ... c 02 N89-14224 *
US-PATENT-CLASS-416-223R .... c 02 N84-11136 *
US-PATENT-CLASS-416-223R .... c 02 N84-28732 *
US-PATENT-CLASS-416-223 ..... c 07 N74-28226 *
US-PATENT-CLASS-416-224 ..... c 24 N77-19170 *
US-PATENT-CLASS-416-224 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-228 ..... c 05 N80-14107 *
US-PATENT-CLASS-416-230 ..... c 24 N77-19170 *
US-PATENT-CLASS-416-233 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-237 ..... c 07 N74-28226 *
US-PATENT-CLASS-416-238 ..... c 05 N80-14107 *
US-PATENT-CLASS-416-23 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-241A .... c 07 N77-32148 *
US-PATENT-CLASS-416-241R .... c 26 N84-33555 *
US-PATENT-CLASS-416-242 ..... c 02 N84-11136 *
US-PATENT-CLASS-416-242 ..... c 02 N84-28732 *
US-PATENT-CLASS-416-244A .... c 07 N78-33101 *
US-PATENT-CLASS-416-248 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-25 ..... c 05 N75-12930 *
US-PATENT-CLASS-416-2 ..... c 44 N79-14527 *
US-PATENT-CLASS-416-500 ..... c 05 N81-19087 *
US-PATENT-CLASS-416-500 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-51 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-61 ..... c 35 N78-24515 *
US-PATENT-CLASS-416-61 ..... c 37 N79-14382 *
US-PATENT-CLASS-416-88 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-89 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-92 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-97A ..... c 34 N85-33433 *
US-PATENT-CLASS-416-97R ..... c 34 N83-27144 *
US-PATENT-CLASS-416-97R ..... c 07 N84-22560 *
US-PATENT-CLASS-416-9 ..... c 37 N90-23742 *
US-PATENT-CLASS-417-138 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-141 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-152 ..... c 15 N72-22489 *
US-PATENT-CLASS-417-159 ..... c 09 N84-27749 *
US-PATENT-CLASS-417-15 ..... c 37 N83-26078 *
US-PATENT-CLASS-417-190 ..... c 35 N91-21496 *
US-PATENT-CLASS-417-207 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-209 ..... c 34 N76-17317 *
US-PATENT-CLASS-417-209 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-209 ..... c 34 N92-29125 *
US-PATENT-CLASS-417-225 ..... c 35 N78-10428 *
US-PATENT-CLASS-417-328 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-36 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-379 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-383 ..... c 37 N80-31790 *
US-PATENT-CLASS-417-391 ..... c 15 N73-24513 *
US-PATENT-CLASS-417-392 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-395 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-399 ..... c 44 N83-14693 *
US-PATENT-CLASS-417-417 ..... c 44 N83-28574 *
US-PATENT-CLASS-417-417 ..... c 31 N85-21404 *
US-PATENT-CLASS-417-462 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-470 ..... c 35 N74-15126 *
US-PATENT-CLASS-417-471 ..... c 35 N74-15126 *
US-PATENT-CLASS-417-475 ..... c 37 N86-32738 *
US-PATENT-CLASS-417-488 ..... c 31 N85-21404 *
US-PATENT-CLASS-417-50 ..... c 15 N71-27084 *
US-PATENT-CLASS-417-52 ..... c 37 N74-27904 *
US-PATENT-CLASS-417-53 ..... c 31 N90-23587 *
US-PATENT-CLASS-417-572 ..... c 31 N90-23587 *
US-PATENT-CLASS-417-88 ..... c 44 N78-32539 *

US-PATENT-CLASS-418-113 ..... c 37 N82-16408 *
US-PATENT-CLASS-418-142 ..... c 37 N82-16408 *
US-PATENT-CLASS-419-14 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-24 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-24 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-30 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-32 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-36 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-36 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-36 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-37 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-37 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-38 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-39 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-48 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-49 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-49 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-8 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-8 ..... c 24 N91-17145 *
US-PATENT-CLASS-42-1.13 ..... c 03 N91-15142 *
US-PATENT-CLASS-42-1F ..... c 11 N72-22247 *
US-PATENT-CLASS-42-101 ..... c 44 N86-25874 *
US-PATENT-CLASS-42-215 ..... c 44 N76-29704 *
US-PATENT-CLASS-420-445 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-460 ..... c 26 N87-14482 *
US-PATENT-CLASS-420-529 ..... c 26 N89-28621 *
US-PATENT-CLASS-420-533 ..... c 26 N89-28621 *
US-PATENT-CLASS-420-54 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-551 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-588 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-62 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-79 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-80 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-81 ..... c 26 N89-14303 *
US-PATENT-CLASS-421-209 ..... c 33 N91-31529 *
US-PATENT-CLASS-421-457 ..... c 33 N91-31529 *
US-PATENT-CLASS-422-101 ..... c 51 N91-31755 *
US-PATENT-CLASS-422-102 ..... c 76 N92-34171 *
US-PATENT-CLASS-422-103 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-104 ..... c 09 N91-21157 *
US-PATENT-CLASS-422-109 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-110 ..... c 35 N93-17626 *
US-PATENT-CLASS-422-111 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-121 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-126 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-129 ..... c 37 N85-21652 *
US-PATENT-CLASS-422-169 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-176 ..... c 34 N92-16243 *
US-PATENT-CLASS-422-178 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-186 ..... c 25 N82-28368 *
US-PATENT-CLASS-422-186 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-187 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-198 ..... c 25 N82-28368 *
US-PATENT-CLASS-422-199 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-199 ..... c 37 N85-21652 *
US-PATENT-CLASS-422-200 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-202 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-208 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-224 ..... c 31 N80-18231 *
US-PATENT-CLASS-422-224 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-235 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-242 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-245 ..... c 76 N90-23242 *
US-PATENT-CLASS-422-245 ..... c 76 N90-24169 *
US-PATENT-CLASS-422-245 ..... c 76 N92-25398 *
US-PATENT-CLASS-422-245 ..... c 76 N92-34171 *
US-PATENT-CLASS-422-246 ..... c 76 N80-32244 *
US-PATENT-CLASS-422-246 ..... c 33 N81-19389 *
US-PATENT-CLASS-422-246 ..... c 76 N82-30105 *
US-PATENT-CLASS-422-246 ..... c 76 N84-35113 *
US-PATENT-CLASS-422-246 ..... c 76 N88-24544 *
US-PATENT-CLASS-422-247 ..... c 76 N92-25398 *
US-PATENT-CLASS-422-249 ..... c 33 N81-19389 *
US-PATENT-CLASS-422-249 ..... c 76 N84-35113 *
US-PATENT-CLASS-422-249 ..... c 76 N90-20896 *
US-PATENT-CLASS-422-251 ..... c 76 N88-14835 *
US-PATENT-CLASS-422-254 ..... c 76 N92-34171 *
US-PATENT-CLASS-422-260 ..... c 76 N88-14835 *
US-PATENT-CLASS-422-27 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-30 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-34 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-3 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-40 ..... c 35 N82-11432 *
US-PATENT-CLASS-422-41 ..... c 52 N79-14749 *
US-PATENT-CLASS-422-48 ..... c 52 N79-14749 *
US-PATENT-CLASS-422-50 ..... c 76 N90-24169 *
US-PATENT-CLASS-422-52 ..... c 51 N80-16714 *
US-PATENT-CLASS-422-52 ..... c 51 N83-27569 *
US-PATENT-CLASS-422-56 ..... c 76 N92-34171 *
US-PATENT-CLASS-422-62 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-68 ..... c 51 N80-27067 *
US-PATENT-CLASS-422-78 ..... c 25 N86-19413 *
US-PATENT-CLASS-422-78 ..... c 09 N91-21157 *
US-PATENT-CLASS-422-80 ..... c 25 N82-12166 *
US-PATENT-CLASS-422-80 ..... c 09 N91-21157 *
US-PATENT-CLASS-422-83 ..... c 34 N92-16243 *

US-PATENT-CLASS-422-83 ..... c 35 N93-17626 *
US-PATENT-CLASS-422-86 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-88 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-93 ..... c 34 N92-16243 *
US-PATENT-CLASS-422-93 ..... c 35 N93-17626 *
US-PATENT-CLASS-422-98 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-99 ..... c 51 N91-31755 *
US-PATENT-CLASS-422-99 ..... c 76 N92-34171 *
US-PATENT-CLASS-422-9 ..... c 45 N80-14579 *
US-PATENT-CLASS-423-DIG.10 . c 24 N84-22695 *
US-PATENT-CLASS-423-DIG.10 . c 31 N85-20153 *
US-PATENT-CLASS-423-131 ..... c 28 N81-15119 *
US-PATENT-CLASS-423-149 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-1 ..... c 28 N81-15119 *
US-PATENT-CLASS-423-231 ..... c 25 N74-12813 *
US-PATENT-CLASS-423-235 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-242 ..... c 45 N79-12584 *
US-PATENT-CLASS-423-247 ..... c 25 N91-21270 *
US-PATENT-CLASS-423-249 ..... c 25 N76-27383 *
US-PATENT-CLASS-423-276 ..... c 23 N87-23698 *
US-PATENT-CLASS-423-284 ..... c 23 N87-23698 *
US-PATENT-CLASS-423-293 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-303 ..... c 44 N84-23019 *
US-PATENT-CLASS-423-33-5 ..... c 25 N79-28253 *
US-PATENT-CLASS-423-338 ..... c 76 N87-29360 *
US-PATENT-CLASS-423-339 ..... c 76 N87-29360 *
US-PATENT-CLASS-423-345 ..... c 76 N76-25049 *
US-PATENT-CLASS-423-345 ..... c 76 N79-23798 *
US-PATENT-CLASS-423-346 ..... c 76 N76-25049 *
US-PATENT-CLASS-423-348 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-350 ..... c 37 N80-10494 *
US-PATENT-CLASS-423-350 ..... c 31 N80-18231 *
US-PATENT-CLASS-423-352 ..... c 36 N76-18427 *
US-PATENT-CLASS-423-407 ..... c 24 N76-14203 *
US-PATENT-CLASS-423-414 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-414 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-417 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-419P .... c 25 N83-33977 *
US-PATENT-CLASS-423-439 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-439 ..... c 27 N92-10090 *
US-PATENT-CLASS-423-445 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-445 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-445 ..... c 24 N85-21267 *
US-PATENT-CLASS-423-446 ..... c 15 N73-19457 *
US-PATENT-CLASS-423-446 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-446 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-446 ..... c 24 N85-21267 *
US-PATENT-CLASS-423-447.2 .... c 24 N83-25789 *
US-PATENT-CLASS-423-447.2 .... c 24 N92-16025 *
US-PATENT-CLASS-423-447.6 .... c 24 N83-25789 *
US-PATENT-CLASS-423-447.7 .... c 24 N83-25789 *
US-PATENT-CLASS-423-448 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-448 ..... c 27 N92-10090 *
US-PATENT-CLASS-423-448 ..... c 24 N92-16025 *
US-PATENT-CLASS-423-449 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-449 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-449 ..... c 24 N85-21267 *
US-PATENT-CLASS-423-460 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-460 ..... c 27 N92-10090 *
US-PATENT-CLASS-423-460 ..... c 24 N92-16025 *
US-PATENT-CLASS-423-489 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-539 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-540 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-542 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-579 ..... c 46 N74-13011 *
US-PATENT-CLASS-423-579 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-581 ..... c 25 N79-10162 *
US-PATENT-CLASS-423-582 ..... c 26 N78-32229 *
US-PATENT-CLASS-423-583 ..... c 26 N78-32229 *
US-PATENT-CLASS-423-600 ..... c 25 N83-33977 *
US-PATENT-CLASS-423-625 ..... c 15 N73-19457 *
US-PATENT-CLASS-423-625 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-630 ..... c 27 N92-16122 *
US-PATENT-CLASS-423-644 ..... c 36 N76-18427 *
US-PATENT-CLASS-423-648R .... c 44 N77-22607 *
US-PATENT-CLASS-423-648R .... c 28 N78-24365 *
US-PATENT-CLASS-423-648R .... c 28 N80-20402 *
US-PATENT-CLASS-423-648R .... c 28 N81-14103 *
US-PATENT-CLASS-423-648R .... c 25 N82-28368 *
US-PATENT-CLASS-423-648R .... c 25 N83-29324 *
US-PATENT-CLASS-423-649 ..... c 25 N83-29324 *
US-PATENT-CLASS-423-650 ..... c 44 N76-18642 *
US-PATENT-CLASS-423-650 ..... c 44 N76-29700 *
US-PATENT-CLASS-423-650 ..... c 44 N76-29704 *
US-PATENT-CLASS-423-650 ..... c 44 N77-10636 *
US-PATENT-CLASS-423-650 ..... c 28 N80-10374 *
US-PATENT-CLASS-423-655 ..... c 28 N91-14495 *
US-PATENT-CLASS-423-658.5 .... c 28 N81-15119 *
US-PATENT-CLASS-424-12 ..... c 25 N79-14169 *
US-PATENT-CLASS-424-12 ..... c 51 N80-16715 *
US-PATENT-CLASS-424-156 ..... c 25 N83-33977 *
US-PATENT-CLASS-424-180 ..... c 52 N75-15270 *
US-PATENT-CLASS-424-247 ..... c 52 N81-29764 *
US-PATENT-CLASS-424-267 ..... c 52 N81-29764 *
US-PATENT-CLASS-424-274 ..... c 52 N81-14613 *
US-PATENT-CLASS-424-274 ..... c 52 N81-29764 *

US-PATENT-CLASS-424-3 ..... c 51 N77-27677 *
US-PATENT-CLASS-424-70 ..... c 54 N92-29137 *
US-PATENT-CLASS-425-DIG.43 c 31 N75-13111 *
US-PATENT-CLASS-425-10 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-113 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-128 ..... c 31 N74-32920 *
US-PATENT-CLASS-425-133 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-176 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-28B ..... c 31 N74-32917 *
US-PATENT-CLASS-425-35 ..... c 31 N74-32917 *
US-PATENT-CLASS-425-378R .... c 31 N81-15154 *
US-PATENT-CLASS-425-4-R ..... c 27 N88-23894 *
US-PATENT-CLASS-425-405R .... c 31 N75-13111 *
US-PATENT-CLASS-425-415 ..... c 31 N74-32920 *
US-PATENT-CLASS-425-425 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-435 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-438 ..... c 31 N75-13111 *
US-PATENT-CLASS-425-468 ..... c 31 N75-13111 *
US-PATENT-CLASS-425-5 ..... c 34 N90-23700 *
US-PATENT-CLASS-425-6 ..... c 31 N81-33319 *
US-PATENT-CLASS-425-6 ..... c 27 N82-28442 *
US-PATENT-CLASS-425-6 ..... c 31 N83-31896 *
US-PATENT-CLASS-425-6 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-6 ..... c 71 N84-28568 *
US-PATENT-CLASS-425-6 ..... c 26 N86-32551 *
US-PATENT-CLASS-425-6 ..... c 34 N90-23700 *
US-PATENT-CLASS-425-73 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-75 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-77 ..... c 15 N72-20446 *
US-PATENT-CLASS-425-7 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-804 ..... c 34 N90-23700 *
US-PATENT-CLASS-427-108 ..... c 74 N92-29158 *
US-PATENT-CLASS-427-109 ..... c 74 N92-29158 *
US-PATENT-CLASS-427-113 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-113 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-113 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-115 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-115 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-115 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-123 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-124 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-125 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-125 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-126.6 .... c 26 N84-22734 *
US-PATENT-CLASS-427-126 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-126 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-130 ..... c 44 N77-32583 *
US-PATENT-CLASS-427-140 ..... c 27 N82-33520 *
US-PATENT-CLASS-427-140 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-160 ..... c 34 N77-18382 *
US-PATENT-CLASS-427-160 ..... c 44 N78-19599 *
US-PATENT-CLASS-427-162 ..... c 12 N76-15189 *
US-PATENT-CLASS-427-162 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-164 ..... c 27 N78-14164 *
US-PATENT-CLASS-427-164 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-164 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-164 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-164 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-165 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-178 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-185 ..... c 24 N92-10070 *
US-PATENT-CLASS-427-191 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-191 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-192 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-195 ..... c 24 N92-10070 *
US-PATENT-CLASS-427-196 ..... c 27 N76-15310 *
US-PATENT-CLASS-427-203 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-204 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-205 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-205 ..... c 27 N82-28441 *
US-PATENT-CLASS-427-215 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-215 ..... c 24 N83-33950 *
US-PATENT-CLASS-427-216 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-217 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-219.2 .... c 27 N83-31855 *
US-PATENT-CLASS-427-221 ..... c 27 N81-19296 *
US-PATENT-CLASS-427-226 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-226 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-228 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-229 ..... c 25 N78-10225 *
US-PATENT-CLASS-427-229 ..... c 37 N87-21334 *
US-PATENT-CLASS-427-230 ..... c 37 N76-31524 *
US-PATENT-CLASS-427-240 ..... c 37 N81-33482 *
US-PATENT-CLASS-427-241 ..... c 24 N83-33950 *
US-PATENT-CLASS-427-243 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-244 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-245 ..... c 27 N80-23452 *
US-PATENT-CLASS-427-245 ..... c 31 N88-29052 *
US-PATENT-CLASS-427-246 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-247 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-248.1 .... c 27 N86-19458 *
US-PATENT-CLASS-427-248.1 .... c 35 N93-14714 *
US-PATENT-CLASS-427-248E .... c 37 N78-13436 *
US-PATENT-CLASS-427-248J .... c 44 N78-24609 *
US-PATENT-CLASS-427-248 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-249 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-249 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-250 ..... c 12 N76-15189 *
US-PATENT-CLASS-427-250 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-250 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-253 ..... c 27 N82-28441 *
US-PATENT-CLASS-427-255.6 .... c 35 N93-14714 *
US-PATENT-CLASS-427-255.7 .... c 35 N93-14714 *
US-PATENT-CLASS-427-255 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-255 ..... c 35 N93-14714 *
US-PATENT-CLASS-427-261 ..... c 44 N78-25527 *
US-PATENT-CLASS-427-261 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-270 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-272 ..... c 31 N90-19427 *
US-PATENT-CLASS-427-272 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-275 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-282 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-287 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-290 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-292 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-292 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-294 ..... c 27 N79-14214 *
US-PATENT-CLASS-427-294 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-294 ..... c 24 N92-16025 *
US-PATENT-CLASS-427-296 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-2 ..... c 52 N90-20616 *
US-PATENT-CLASS-427-302 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-302 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-306 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-318 ..... c 26 N83-31795 *
US-PATENT-CLASS-427-322 ..... c 34 N77-18382 *
US-PATENT-CLASS-427-322 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-322 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-327 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-328 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-340 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-343 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-343 ..... c 76 N92-10681 *
US-PATENT-CLASS-427-344 ..... c 35 N93-14714 *
US-PATENT-CLASS-427-346 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-34 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-34 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-34 ..... c 27 N82-29453 *
US-PATENT-CLASS-427-34 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-34 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-34 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-34 ..... c 26 N84-27855 *
US-PATENT-CLASS-427-34 ..... c 75 N91-25875 *
US-PATENT-CLASS-427-350 ..... c 24 N79-25142 *
US-PATENT-CLASS-427-352 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-355 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-367 ..... c 24 N93-14706 *
US-PATENT-CLASS-427-372.2 .... c 27 N82-33520 *
US-PATENT-CLASS-427-372.2 .... c 44 N84-28205 *
US-PATENT-CLASS-427-372A .... c 24 N79-25142 *
US-PATENT-CLASS-427-375 ..... c 24 N92-10070 *
US-PATENT-CLASS-427-376.2 .... c 26 N85-35267 *
US-PATENT-CLASS-427-376.6 .... c 33 N84-16456 *
US-PATENT-CLASS-427-376.7 .... c 33 N84-16456 *
US-PATENT-CLASS-427-376A .... c 27 N78-32260 *
US-PATENT-CLASS-427-376B .... c 27 N78-32260 *
US-PATENT-CLASS-427-376B .... c 24 N79-17916 *
US-PATENT-CLASS-427-376C .... c 24 N79-17916 *
US-PATENT-CLASS-427-376 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-376 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-379 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-379 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-379 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-379 ..... c 27 N81-19296 *
US-PATENT-CLASS-427-379 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-379 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-379 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-37 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-380 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-380 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-380 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-380 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-380 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-384 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-384 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-385.5 .... c 27 N81-14078 *
US-PATENT-CLASS-427-385.5 .... c 27 N86-20561 *
US-PATENT-CLASS-427-385B .... c 44 N78-25530 *
US-PATENT-CLASS-427-385C .... c 44 N78-25530 *
US-PATENT-CLASS-427-386 ..... c 24 N78-27180 *
US-PATENT-CLASS-427-387 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-387 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-387 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-388.1 .... c 27 N86-20561 *
US-PATENT-CLASS-427-388A .... c 24 N78-27180 *
US-PATENT-CLASS-427-38 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-38 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-38 ..... c 26 N85-29005 *
US-PATENT-CLASS-427-38 ..... c 27 N86-19458 *
US-PATENT-CLASS-427-38 ..... c 26 N88-14179 *
US-PATENT-CLASS-427-38 ..... c 74 N92-29158 *
US-PATENT-CLASS-427-393.3 .... c 27 N82-16238 *
US-PATENT-CLASS-427-397.7 .... c 27 N82-33520 *
US-PATENT-CLASS-427-397.7 .... c 26 N85-35267 *
US-PATENT-CLASS-427-398A .... c 44 N79-11472 *
US-PATENT-CLASS-427-399 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-399 ..... c 36 N84-22944 *
US-PATENT-CLASS-427-39 ..... c 24 N85-21267 *
US-PATENT-CLASS-427-39 ..... c 31 N86-32587 *
US-PATENT-CLASS-427-400 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-402 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-402 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-404 ..... c 24 N93-14706 *
US-PATENT-CLASS-427-405 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-405 ..... c 27 N82-28441 *
US-PATENT-CLASS-427-405 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-405 ..... c 26 N84-27855 *
US-PATENT-CLASS-427-407.1 .... c 27 N83-34039 *
US-PATENT-CLASS-427-40 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-40 ..... c 27 N79-18052 *
US-PATENT-CLASS-427-40 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-419.1 .... c 76 N92-22040 *
US-PATENT-CLASS-427-419.2 .... c 26 N83-31795 *
US-PATENT-CLASS-427-419.2 .... c 26 N84-27855 *
US-PATENT-CLASS-427-419.2 .... c 76 N92-22040 *
US-PATENT-CLASS-427-419.2 .... c 24 N93-14706 *
US-PATENT-CLASS-427-419A .... c 34 N78-18355 *
US-PATENT-CLASS-427-41 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-41 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-41 ..... c 27 N79-14214 *
US-PATENT-CLASS-427-41 ..... c 27 N79-18052 *
US-PATENT-CLASS-427-41 ..... c 27 N80-23452 *
US-PATENT-CLASS-427-421 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-421 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-422 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-423 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-423 ..... c 27 N82-29453 *
US-PATENT-CLASS-427-423 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-423 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-423 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-425 ..... c 37 N82-24492 *
US-PATENT-CLASS-427-426 ..... c 27 N76-15310 *
US-PATENT-CLASS-427-426 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-427 ..... c 24 N78-24290 *
US-PATENT-CLASS-427-427 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-429 ..... c 27 N81-14078 *
US-PATENT-CLASS-427-436 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-437 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-443.2 .... c 25 N84-12262 *
US-PATENT-CLASS-427-443.2 .... c 24 N92-16025 *
US-PATENT-CLASS-427-443 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-44 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-44 ..... c 27 N80-32516 *
US-PATENT-CLASS-427-456 ..... c 24 N93-14706 *
US-PATENT-CLASS-427-47 ..... c 44 N77-32583 *
US-PATENT-CLASS-427-47 ..... c 26 N85-29005 *
US-PATENT-CLASS-427-4 ..... c 51 N77-27677 *
US-PATENT-CLASS-427-527 ..... c 35 N93-14714 *
US-PATENT-CLASS-427-53.1 ..... c 36 N84-22944 *
US-PATENT-CLASS-427-53.1 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-531 ..... c 44 N82-28780 *
US-PATENT-CLASS-427-57 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-58 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-58 ..... c 35 N93-14714 *
US-PATENT-CLASS-427-62 ..... c 76 N92-10681 *
US-PATENT-CLASS-427-62 ..... c 76 N92-22040 *
US-PATENT-CLASS-427-63 ..... c 76 N92-22040 *
US-PATENT-CLASS-427-66 ..... c 74 N92-29158 *
US-PATENT-CLASS-427-68 ..... c 74 N92-29158 *
US-PATENT-CLASS-427-6 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-74 ..... c 44 N82-28780 *
US-PATENT-CLASS-427-75 ..... c 44 N78-25527 *
US-PATENT-CLASS-427-75 ..... c 44 N79-11468 *
US-PATENT-CLASS-427-75 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-75 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-84 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-85 ..... c 44 N85-20530 *
US-PATENT-CLASS-427-86 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-86 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-88 ..... c 44 N79-31752 *
US-PATENT-CLASS-427-88 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-88 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-89 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-90 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-91 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-95 ..... c 25 N79-28253 *
US-PATENT-CLASS-427-96 ..... c 33 N84-16456 *
US-PATENT-CLASS-428-105 ..... c 24 N93-14700 *
US-PATENT-CLASS-428-109 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-109 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-113 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-114 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-114 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-116 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-116 ..... c 24 N78-17149 *
US-PATENT-CLASS-428-116 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-117 ..... c 37 N76-24575 *
US-PATENT-CLASS-428-117 ..... c 24 N78-15180 *

US-PATENT-CLASS-428-117 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-119 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-133 ..... c 37 N79-10422 *
US-PATENT-CLASS-428-137 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-138 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-139 ..... c 23 N81-29160 *
US-PATENT-CLASS-428-140 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-141 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-141 ..... c 27 N82-28440 *
US-PATENT-CLASS-428-141 ..... c 27 N82-33521 *
US-PATENT-CLASS-428-155 ..... c 37 N84-22957 *
US-PATENT-CLASS-428-161 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-179 ..... c 24 N93-14700 *
US-PATENT-CLASS-428-182 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-182 ..... c 31 N89-12786 *
US-PATENT-CLASS-428-182 ..... c 24 N93-14700 *
US-PATENT-CLASS-428-184 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-184 ..... c 24 N93-14700 *
US-PATENT-CLASS-428-185 ..... c 24 N93-14700 *
US-PATENT-CLASS-428-186 ..... c 24 N93-14700 *
US-PATENT-CLASS-428-189 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-192 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-193 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-202 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-212 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-212 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-212 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-212 ..... c 24 N92-21725 *
US-PATENT-CLASS-428-213 ..... c 24 N92-21725 *
US-PATENT-CLASS-428-213 ..... c 24 N93-14700 *
US-PATENT-CLASS-428-214 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-215 ..... c 27 N92-10091 *
US-PATENT-CLASS-428-216 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-218 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-218 ..... c 24 N83-13171 *
US-PATENT-CLASS-428-220 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-241 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-241 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-242 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-244 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-245 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-245 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-246 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-246 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-247 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-247 ..... c 33 N82-26571 *
US-PATENT-CLASS-428-251 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-252 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-257 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-258 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-259 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-260 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-260 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-260 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-260 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-260 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-262 ..... c 27 N87-14516 *
US-PATENT-CLASS-428-263 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-264 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-265 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-266 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-267 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-272 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-280 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-280 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-282 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-283 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-283 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-284 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-285 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-285 ..... c 24 N91-31236 *
US-PATENT-CLASS-428-286 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-286 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-287 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-287 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-288 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-288 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-289 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-290 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-290 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-290 ..... c 27 N87-28657 *
US-PATENT-CLASS-428-290 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-294 ..... c 24 N78-17150 *
US-PATENT-CLASS-428-294 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-301 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-302 ..... c 24 N78-17150 *
US-PATENT-CLASS-428-303 ..... c 27 N76-15310 *
US-PATENT-CLASS-428-304.4 .... c 03 N84-33394 *
US-PATENT-CLASS-428-307.7 .... c 27 N82-29456 *
US-PATENT-CLASS-428-307.7 .... c 24 N92-16026 *
US-PATENT-CLASS-428-311.5 .... c 27 N82-29456 *
US-PATENT-CLASS-428-312.6 .... c 27 N82-29456 *
US-PATENT-CLASS-428-312.6 .... c 44 N83-34448 *
US-PATENT-CLASS-428-312 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-313 ..... c 24 N78-27180 *
US-PATENT-CLASS-428-315.5 .... c 25 N92-33009 *
US-PATENT-CLASS-428-315.7 .... c 25 N92-33009 *
US-PATENT-CLASS-428-317.9 .... c 27 N82-29456 *
US-PATENT-CLASS-428-319.1 .... c 03 N84-33394 *
US-PATENT-CLASS-428-325 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-325 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-325 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-325 ..... c 24 N92-16026 *
US-PATENT-CLASS-428-328 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-328 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-331 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-331 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-332 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-332 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-332 ..... c 24 N78-27180 *
US-PATENT-CLASS-428-332 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-332 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-332 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-334 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-336 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-336 ..... c 27 N86-31727 *
US-PATENT-CLASS-428-339 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-341 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-347 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-35.9 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-35 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-366 ..... c 24 N79-24062 *
US-PATENT-CLASS-428-367 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-367 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-367 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-367 ..... c 27 N87-28656 *
US-PATENT-CLASS-428-367 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-367 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-368 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-368 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-370 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-375 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-375 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-375 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-376 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-379 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-390 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-392 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-403 ..... c 27 N92-25397 *
US-PATENT-CLASS-428-404 ..... c 25 N92-33009 *
US-PATENT-CLASS-428-405 ..... c 27 N92-25397 *
US-PATENT-CLASS-428-406 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-407 ..... c 27 N92-25397 *
US-PATENT-CLASS-428-408 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-408 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-408 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-408 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-408 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-408 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-408 ..... c 52 N90-20616 *
US-PATENT-CLASS-428-40 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-410 ..... c 23 N86-19376 *
US-PATENT-CLASS-428-411 ..... c 27 N78-14164 *
US-PATENT-CLASS-428-411 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-411 ..... c 27 N79-14214 *
US-PATENT-CLASS-428-412 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-412 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-412 ..... c 74 N78-32854 *
US-PATENT-CLASS-428-412 ..... c 27 N79-18052 *
US-PATENT-CLASS-428-412 ..... c 27 N92-10091 *
US-PATENT-CLASS-428-413 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-413 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-413 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-413 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-413 ..... c 27 N87-25469 *
US-PATENT-CLASS-428-414 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-416 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-417 ..... c 27 N87-25469 *
US-PATENT-CLASS-428-418 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-418 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-419 ..... c 27 N92-10091 *
US-PATENT-CLASS-428-421 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-421 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-421 ..... c 27 N80-24437 *
US-PATENT-CLASS-428-421 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-421 ..... c 27 N87-16909 *
US-PATENT-CLASS-428-421 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-422 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-422 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-422 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-422 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-423.5 .... c 03 N84-33394 *
US-PATENT-CLASS-428-425 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-426 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-426 ..... c 24 N92-21725 *
US-PATENT-CLASS-428-427 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-427 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-428 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-428 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-428 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-428 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-428 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-432 ..... c 27 N84-33589 *
US-PATENT-CLASS-428-432 ..... c 76 N85-33826 *
US-PATENT-CLASS-428-432 ..... c 24 N92-21725 *
US-PATENT-CLASS-428-433 ..... c 24 N92-21725 *
US-PATENT-CLASS-428-446 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-446 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-446 ..... c 27 N86-19458 *
US-PATENT-CLASS-428-446 ..... c 24 N92-16026 *
US-PATENT-CLASS-428-447 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-447 ..... c 27 N76-16230 *
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US-PATENT-CLASS-428-447 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-447 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-447 ..... c 27 N87-14516 *
US-PATENT-CLASS-428-447 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-447 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-448 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-44 ..... c 24 N88-18628 *
US-PATENT-CLASS-428-44 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-450 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-450 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-450 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-450 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-450 ..... c 26 N83-31795 *
US-PATENT-CLASS-428-450 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-451 ..... c 27 N79-18052 *
US-PATENT-CLASS-428-457 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-457 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-457 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-457 ..... c 26 N82-30371 *
US-PATENT-CLASS-428-457 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-458 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-458 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-458 ..... c 27 N86-20561 *
US-PATENT-CLASS-428-458 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-458 ..... c 27 N92-10091 *
US-PATENT-CLASS-428-461 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-462 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-466 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-469 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-469 ..... c 26 N83-31795 *
US-PATENT-CLASS-428-469 ..... c 24 N92-21725 *
US-PATENT-CLASS-428-471 ..... c 26 N81-25188 *
US-PATENT-CLASS-428-472.2 .... c 24 N92-21725 *
US-PATENT-CLASS-428-472 ..... c 26 N82-30371 *
US-PATENT-CLASS-428-473.5 .... c 27 N81-14078 *
US-PATENT-CLASS-428-473.5 .... c 27 N81-29229 *
US-PATENT-CLASS-428-473.5 .... c 27 N84-14322 *
US-PATENT-CLASS-428-473.5 .... c 27 N86-19458 *
US-PATENT-CLASS-428-473.5 .... c 27 N86-20561 *
US-PATENT-CLASS-428-473.5 .... c 24 N86-25416 *
US-PATENT-CLASS-428-473.5 .... c 27 N86-31726 * #
US-PATENT-CLASS-428-473.5 .... c 27 N86-31727 *
US-PATENT-CLASS-428-473.5 .... c 27 N87-16909 *
US-PATENT-CLASS-428-473.5 .... c 27 N87-23736 *
US-PATENT-CLASS-428-474 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-474.4 .... c 24 N86-25416 *
US-PATENT-CLASS-428-474.4 .... c 54 N90-25498 *
US-PATENT-CLASS-428-474 ..... c 27 N79-33316 *
US-PATENT-CLASS-428-474 ..... c 27 N80-24437 *
US-PATENT-CLASS-428-477.7 .... c 24 N86-25416 *
US-PATENT-CLASS-428-47 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-480 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-493 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-49 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-49 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-500 ..... c 27 N80-32516 *
US-PATENT-CLASS-428-500 ..... c 27 N87-16909 *
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US-PATENT-CLASS-428-522 ..... c 27 N78-14164 *
US-PATENT-CLASS-428-523 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-528 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-538 ..... c 27 N76-22377 *
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US-PATENT-CLASS-428-541 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-551 ..... c 24 N90-23493 *
US-PATENT-CLASS-428-552 ..... c 24 N90-23493 *
US-PATENT-CLASS-428-564 ..... c 26 N84-33555 *
US-PATENT-CLASS-428-58 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-593 ..... c 24 N82-24296 *
US-PATENT-CLASS-428-593 ..... c 24 N84-11214 *
US-PATENT-CLASS-428-594 ..... c 24 N82-24296 *
US-PATENT-CLASS-428-594 ..... c 24 N82-32417 *
US-PATENT-CLASS-428-595 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-604 ..... c 24 N82-24296 *
US-PATENT-CLASS-428-604 ..... c 24 N82-32417 *
US-PATENT-CLASS-428-607 ..... c 24 N82-32417 *
US-PATENT-CLASS-428-607 ..... c 26 N87-25455 *
US-PATENT-CLASS-428-607 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-608 ..... c 24 N82-32417 *
US-PATENT-CLASS-428-614 ..... c 27 N92-29090 *

US-PATENT-CLASS-428-623 ..... c 27 N83-31855 *
US-PATENT-CLASS-428-623 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-627 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-629 ..... c 44 N80-16452 *
US-PATENT-CLASS-428-632 ..... c 26 N81-25188 *
US-PATENT-CLASS-428-632 ..... c 26 N84-27855 *
US-PATENT-CLASS-428-632 ..... c 26 N87-25455 *
US-PATENT-CLASS-428-632 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-633 ..... c 34 N78-18355 *
US-PATENT-CLASS-428-633 ..... c 27 N83-31855 *
US-PATENT-CLASS-428-633 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-633 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-639 ..... c 26 N84-33555 *
US-PATENT-CLASS-428-63 ..... c 24 N83-13172 *
US-PATENT-CLASS-428-641 ..... c 26 N83-31795 *
US-PATENT-CLASS-428-641 ..... c 76 N90-19884 *
US-PATENT-CLASS-428-650 ..... c 44 N80-16452 *
US-PATENT-CLASS-428-650 ..... c 26 N83-31795 *
US-PATENT-CLASS-428-651 ..... c 26 N87-25455 *
US-PATENT-CLASS-428-652 ..... c 34 N78-18355 *
US-PATENT-CLASS-428-652 ..... c 44 N78-19599 *
US-PATENT-CLASS-428-656 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-656 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-658 ..... c 44 N80-16452 *
US-PATENT-CLASS-428-660 ..... c 26 N87-25455 *
US-PATENT-CLASS-428-660 ..... c 27 N92-29090 *
US-PATENT-CLASS-428-661 ..... c 27 N92-29090 *
US-PATENT-CLASS-428-666 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-667 ..... c 34 N78-18355 *
US-PATENT-CLASS-428-667 ..... c 44 N78-19599 *
US-PATENT-CLASS-428-675 ..... c 44 N80-16452 *
US-PATENT-CLASS-428-678 ..... c 26 N81-25188 *
US-PATENT-CLASS-428-678 ..... c 27 N83-31855 *
US-PATENT-CLASS-428-678 ..... c 26 N84-33555 *
US-PATENT-CLASS-428-678 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-678 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-679 ..... c 44 N78-19599 *
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US-PATENT-CLASS-428-679 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-679 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-680 ..... c 44 N80-16452 *
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US-PATENT-CLASS-428-680 ..... c 26 N83-31795 *
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US-PATENT-CLASS-428-680 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-680 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-681 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-681 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-682 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-682 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-683 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-684 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-690 ..... c 76 N91-21911 *
US-PATENT-CLASS-428-698 ..... c 76 N85-33826 *
US-PATENT-CLASS-428-698 ..... c 26 N85-35267 *
US-PATENT-CLASS-428-698 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-702 ..... c 27 N86-19458 *
US-PATENT-CLASS-428-702 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-704 ..... c 26 N85-35267 *
US-PATENT-CLASS-428-704 ..... c 27 N87-16909 *
US-PATENT-CLASS-428-71 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-71 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-71 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-73 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-73 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-73 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-74 ..... c 24 N88-18628 *
US-PATENT-CLASS-428-76 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-76 ..... c 24 N88-18628 *
US-PATENT-CLASS-428-76 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-77 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-77 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-78 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-901 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-902 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-902 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-902 ..... c 24 N78-17149 *
US-PATENT-CLASS-428-902 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-902 ..... c 31 N81-25258 *
US-PATENT-CLASS-428-902 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-902 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-902 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-902 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-902 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-903 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-911 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-911 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-913 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-913 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-913 ..... c 76 N85-33826 *
US-PATENT-CLASS-428-920 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-920 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-920 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-920 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-920 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-920 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-920 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-920 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-920 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-920 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-920 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-920 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-920 ..... c 24 N88-18628 *
US-PATENT-CLASS-428-920 ..... c 24 N92-16026 *
US-PATENT-CLASS-428-921 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-921 ..... c 24 N78-27180 *
US-PATENT-CLASS-428-921 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-921 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-921 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-922 ..... c 27 N78-14164 *
US-PATENT-CLASS-428-938 ..... c 27 N82-28441 *
US-PATENT-CLASS-428-93 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-941 ..... c 27 N82-28441 *
US-PATENT-CLASS-428-94 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-95 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-96 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-97 ..... c 34 N78-25350 *
US-PATENT-CLASS-429-101 ..... c 44 N79-17313 *
US-PATENT-CLASS-429-101 ..... c 44 N79-26474 *
US-PATENT-CLASS-429-101 ..... c 33 N80-20487 *
US-PATENT-CLASS-429-103 ..... c 33 N91-14538 *
US-PATENT-CLASS-429-104 ..... c 33 N91-14536 *
US-PATENT-CLASS-429-105 ..... c 44 N77-22606 *
US-PATENT-CLASS-429-105 ..... c 33 N80-20487 *
US-PATENT-CLASS-429-105 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-107 ..... c 44 N77-22606 *
US-PATENT-CLASS-429-107 ..... c 33 N80-20487 *
US-PATENT-CLASS-429-107 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-109 ..... c 33 N80-20487 *
US-PATENT-CLASS-429-109 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-109 ..... c 44 N86-19721 *
US-PATENT-CLASS-429-111 ..... c 25 N84-12262 *
US-PATENT-CLASS-429-111 ..... c 44 N84-23019 *
US-PATENT-CLASS-429-11 ..... c 44 N92-16457 *
US-PATENT-CLASS-429-120 ..... c 44 N81-24521 *
US-PATENT-CLASS-429-120 ..... c 33 N91-14538 *
US-PATENT-CLASS-429-120 ..... c 44 N92-16457 *
US-PATENT-CLASS-429-139 ..... c 27 N80-32516 *
US-PATENT-CLASS-429-139 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-13 ..... c 44 N79-10513 *
US-PATENT-CLASS-429-144 ..... c 44 N82-29708 *
US-PATENT-CLASS-429-144 ..... c 44 N83-32176 *
US-PATENT-CLASS-429-15 ..... c 44 N79-26474 *
US-PATENT-CLASS-429-15 ..... c 44 N86-19721 *
US-PATENT-CLASS-429-160 ..... c 44 N81-24521 *
US-PATENT-CLASS-429-164 ..... c 44 N81-24521 *
US-PATENT-CLASS-429-190 ..... c 44 N77-22606 *
US-PATENT-CLASS-429-192 ..... c 33 N92-28753 *
US-PATENT-CLASS-429-193 ..... c 44 N82-29710 *
US-PATENT-CLASS-429-19 ..... c 44 N86-19721 *
US-PATENT-CLASS-429-206 ..... c 25 N83-13188 *
US-PATENT-CLASS-429-206 ..... c 33 N84-14422 *
US-PATENT-CLASS-429-206 ..... c 33 N85-29144 *
US-PATENT-CLASS-429-213 ..... c 33 N91-14536 *
US-PATENT-CLASS-429-223 ..... c 26 N84-22734 *
US-PATENT-CLASS-429-223 ..... c 33 N91-27478 *
US-PATENT-CLASS-429-229 ..... c 33 N84-14422 *
US-PATENT-CLASS-429-234 ..... c 26 N84-22734 *
US-PATENT-CLASS-429-23 ..... c 44 N77-14581 *
US-PATENT-CLASS-429-249 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-249 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-249 ..... c 33 N85-29144 *
US-PATENT-CLASS-429-251 ..... c 44 N82-29708 *
US-PATENT-CLASS-429-251 ..... c 44 N83-32176 *
US-PATENT-CLASS-429-253 ..... c 44 N79-25481 *
US-PATENT-CLASS-429-253 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-253 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-253 ..... c 25 N83-13188 *
US-PATENT-CLASS-429-254 ..... c 44 N78-25530 *
US-PATENT-CLASS-429-254 ..... c 44 N82-29708 *
US-PATENT-CLASS-429-254 ..... c 44 N83-32176 *
US-PATENT-CLASS-429-27 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-27 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-27 ..... c 44 N86-25874 *
US-PATENT-CLASS-429-28 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-28 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-33 ..... c 44 N79-17313 *
US-PATENT-CLASS-429-33 ..... c 44 N82-29710 *
US-PATENT-CLASS-429-34 ..... c 44 N77-14581 *
US-PATENT-CLASS-429-34 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-40 ..... c 44 N82-29710 *
US-PATENT-CLASS-429-40 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-41 ..... c 44 N79-10513 *
US-PATENT-CLASS-429-42 ..... c 44 N79-10513 *
US-PATENT-CLASS-429-44 ..... c 44 N84-28205 *
US-PATENT-CLASS-429-51 ..... c 44 N86-19721 *
US-PATENT-CLASS-429-57 ..... c 44 N86-25874 *
US-PATENT-CLASS-429-58 ..... c 35 N85-21596 *
US-PATENT-CLASS-429-94 ..... c 44 N81-24521 *
US-PATENT-CLASS-430-17 ..... c 35 N82-11432 *
US-PATENT-CLASS-430-271 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-325 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-329 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-330 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-372 ..... c 35 N82-11432 *
US-PATENT-CLASS-431-10 ..... c 34 N78-27357 *
US-PATENT-CLASS-431-10 ..... c 25 N79-11151 *
US-PATENT-CLASS-431-116 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-11 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-13 ..... c 25 N88-29002 *
US-PATENT-CLASS-431-158 ..... c 25 N78-10224 *
US-PATENT-CLASS-431-162 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-163 ..... c 44 N76-29704 *
US-PATENT-CLASS-431-170 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-173 ..... c 23 N73-30665 *
US-PATENT-CLASS-431-1 ..... c 25 N84-16276 *
US-PATENT-CLASS-431-202 ..... c 25 N74-33378 *
US-PATENT-CLASS-431-208 ..... c 25 N79-11151 *
US-PATENT-CLASS-431-210 ..... c 44 N76-29704 *
US-PATENT-CLASS-431-2 ..... c 07 N81-29129 *
US-PATENT-CLASS-431-328 ..... c 34 N78-27357 *
US-PATENT-CLASS-431-352 ..... c 28 N71-28915 *
US-PATENT-CLASS-431-352 ..... c 25 N78-10224 *
US-PATENT-CLASS-431-352 ..... c 25 N90-11824 *
US-PATENT-CLASS-431-41 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-4 ..... c 44 N76-29704 *
US-PATENT-CLASS-431-76 ..... c 25 N88-29002 *
US-PATENT-CLASS-431-7 ..... c 34 N78-27357 *
US-PATENT-CLASS-431-9 ..... c 23 N73-30665 *
US-PATENT-CLASS-432-18 ..... c 35 N86-20750 *
US-PATENT-CLASS-432-223 ..... c 25 N79-11151 *
US-PATENT-CLASS-432-227 ..... c 35 N83-24828 *
US-PATENT-CLASS-432-264 ..... c 33 N81-19389 *
US-PATENT-CLASS-432-29 ..... c 25 N79-11151 *
US-PATENT-CLASS-432-58 ..... c 35 N83-24828 *
US-PATENT-CLASS-433-118 ..... c 52 N82-29862 *
US-PATENT-CLASS-433-125 ..... c 52 N82-29862 *
US-PATENT-CLASS-433-86 ..... c 52 N82-29862 *
US-PATENT-CLASS-434-114 ..... c 82 N87-29372 *
US-PATENT-CLASS-434-242 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-243 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-2 ..... c 32 N84-27951 *
US-PATENT-CLASS-434-34 ..... c 14 N87-25344 *
US-PATENT-CLASS-434-35 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-38 ..... c 36 N83-34304 *
US-PATENT-CLASS-434-403 ..... c 31 N83-34073 *
US-PATENT-CLASS-434-42 ..... c 09 N82-24212 *
US-PATENT-CLASS-434-43 ..... c 09 N82-24212 *
US-PATENT-CLASS-434-49 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-4 ..... c 36 N83-34304 *
US-PATENT-CLASS-434-4 ..... c 35 N86-32697 *
US-PATENT-CLASS-434-59 ..... c 54 N81-27806 *
US-PATENT-CLASS-434-88 ..... c 31 N83-34073 *
US-PATENT-CLASS-435-160 ..... c 23 N85-35227 *
US-PATENT-CLASS-435-240.240 c 51 N92-34232 *
US-PATENT-CLASS-435-240.241 c 51 N93-10110 *
US-PATENT-CLASS-435-240.24 .. c 51 N92-34229 *
US-PATENT-CLASS-435-240.24 .. c 51 N92-34231 *
US-PATENT-CLASS-435-240.24 .. c 51 N93-10109 *
US-PATENT-CLASS-435-240.24 .. c 51 N93-10110 *
US-PATENT-CLASS-435-240.25 .. c 51 N92-34229 *
US-PATENT-CLASS-435-240.25 .. c 51 N92-34231 *
US-PATENT-CLASS-435-240.25 .. c 51 N93-10109 *
US-PATENT-CLASS-435-240.25 .. c 51 N93-10110 *
US-PATENT-CLASS-435-240.46 .. c 51 N93-10109 *
US-PATENT-CLASS-435-240.46 .. c 51 N93-10110 *
US-PATENT-CLASS-435-284 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-284 ..... c 51 N92-34232 *
US-PATENT-CLASS-435-285 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-285 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-286 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-286 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-286 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-286 ..... c 35 N92-31790 *
US-PATENT-CLASS-435-286 ..... c 51 N92-34229 *
US-PATENT-CLASS-435-286 ..... c 51 N92-34231 *
US-PATENT-CLASS-435-286 ..... c 51 N92-34232 *
US-PATENT-CLASS-435-289 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-289 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-289 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-290 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-291 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-291 ..... c 51 N81-28698 *
US-PATENT-CLASS-435-291 ..... c 35 N82-28604 *
US-PATENT-CLASS-435-291 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-292 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-30 ..... c 51 N91-31755 *
US-PATENT-CLASS-435-311 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-311 ..... c 51 N91-14703 *
US-PATENT-CLASS-435-311 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-311 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-311 ..... c 35 N92-31790 *
US-PATENT-CLASS-435-311 ..... c 51 N92-34232 *
US-PATENT-CLASS-435-312 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-312 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-312 ..... c 35 N92-31790 *
US-PATENT-CLASS-435-312 ..... c 51 N92-34231 *
US-PATENT-CLASS-435-312 ..... c 51 N92-34232 *

US-PATENT-CLASS-435-313 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-313 ..... c 51 N92-34232 *
US-PATENT-CLASS-435-315 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-315 ..... c 51 N92-34232 *
US-PATENT-CLASS-435-316 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-316 ..... c 51 N91-14703 *
US-PATENT-CLASS-435-316 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-316 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-32 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-34 ..... c 51 N80-16714 *
US-PATENT-CLASS-435-34 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-34 ..... c 51 N81-28698 *
US-PATENT-CLASS-435-34 ..... c 35 N82-28604 *
US-PATENT-CLASS-435-34 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-34 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-38 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-38 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-38 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-39 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-39 ..... c 35 N82-28604 *
US-PATENT-CLASS-435-39 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-39 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-3 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-3 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-3 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-3 ..... c 51 N92-34229 *
US-PATENT-CLASS-435-3 ..... c 51 N92-34231 *
US-PATENT-CLASS-435-5 ..... c 51 N81-28698 *
US-PATENT-CLASS-435-807 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-818 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-818 ..... c 51 N93-10110 *
US-PATENT-CLASS-435-842 ..... c 23 N85-35227 *
US-PATENT-CLASS-435-8 ..... c 51 N83-27569 *
US-PATENT-CLASS-436-117 ..... c 35 N93-17626 *
US-PATENT-CLASS-436-137 ..... c 35 N90-22025 *
US-PATENT-CLASS-436-143 ..... c 35 N90-22025 *
US-PATENT-CLASS-436-155 ..... c 25 N86-19413 *
US-PATENT-CLASS-436-2 ..... c 35 N85-29213 *
US-PATENT-CLASS-436-52 ..... c 35 N93-17626 *
US-PATENT-CLASS-436-55 ..... c 35 N90-22025 *
US-PATENT-CLASS-436-9 ..... c 35 N93-17626 *
US-PATENT-CLASS-437-105 ..... c 76 N92-22035 *
US-PATENT-CLASS-437-107 ..... c 76 N92-22035 *
US-PATENT-CLASS-437-128 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-131 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-133 ..... c 76 N92-22035 *
US-PATENT-CLASS-437-187 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-197 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-199 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-200 ..... c 24 N92-18561 *
US-PATENT-CLASS-437-225 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-228 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-229 ..... c 25 N91-31258 *
US-PATENT-CLASS-437-235 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-238 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-239 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-247 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-248 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-2 ..... c 44 N91-27614 *
US-PATENT-CLASS-437-3 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-40 ..... c 24 N92-18561 *
US-PATENT-CLASS-437-7 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-85 ..... c 76 N92-22035 *
US-PATENT-CLASS-437-8 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-903 ..... c 76 N90-19884 *
US-PATENT-CLASS-437-907 ..... c 24 N92-18561 *
US-PATENT-CLASS-437-930 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-935 ..... c 24 N92-18561 *
US-PATENT-CLASS-437-936 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-936 ..... c 76 N92-22035 *
US-PATENT-CLASS-437-942 ..... c 24 N92-18561 *
US-PATENT-CLASS-437-945 ..... c 76 N92-22035 *
US-PATENT-CLASS-437-969 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-973 ..... c 24 N92-18561 *
US-PATENT-CLASS-439-131 ..... c 37 N93-14712 *
US-PATENT-CLASS-439-139 ..... c 37 N93-14712 *
US-PATENT-CLASS-439-271 ..... c 33 N88-14270 *
US-PATENT-CLASS-439-310 ..... c 37 N93-14712 *
US-PATENT-CLASS-439-578 ..... c 33 N88-14270 *
US-PATENT-CLASS-44-1-SR ..... c 25 N85-35253 *
US-PATENT-CLASS-44-1R ..... c 44 N78-31527 *
US-PATENT-CLASS-44-1R ..... c 25 N81-33246 *
US-PATENT-CLASS-44-1SR ..... c 25 N82-29371 *
US-PATENT-CLASS-44-1SR ..... c 25 N83-31743 *
US-PATENT-CLASS-44-2 ..... c 44 N78-31527 *
US-PATENT-CLASS-44-2 ..... c 25 N81-33246 *
US-PATENT-CLASS-44-50 ..... c 27 N81-17261 *
US-PATENT-CLASS-44-51 ..... c 25 N79-11152 *
US-PATENT-CLASS-44-62 ..... c 27 N81-17261 *
US-PATENT-CLASS-44-7R ..... c 28 N81-14103 *
US-PATENT-CLASS-44-77 ..... c 06 N71-23499 *
US-PATENT-CLASS-441-83 ..... c 03 N91-31113 *
US-PATENT-CLASS-445-35 ..... c 37 N85-33489 *
US-PATENT-CLASS-455-102 ..... c 33 N81-15192 *
US-PATENT-CLASS-455-102 ..... c 33 N91-31530 *
US-PATENT-CLASS-455-115 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-117 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-137 ..... c 35 N82-15381 *
US-PATENT-CLASS-455-139 ..... c 35 N82-15381 *
US-PATENT-CLASS-455-1 ..... c 33 N91-31530 *
US-PATENT-CLASS-455-202 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-202 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-208 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-208 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-234 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-260 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-265 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-278 ..... c 32 N81-29308 *
US-PATENT-CLASS-455-306 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-51 ..... c 32 N81-14186 *
US-PATENT-CLASS-455-605 ..... c 74 N91-27957 *
US-PATENT-CLASS-455-608 ..... c 32 N87-21207 *
US-PATENT-CLASS-455-60 ..... c 35 N82-15381 *
US-PATENT-CLASS-455-610 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-612 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-612 ..... c 74 N83-29032 *
US-PATENT-CLASS-455-615 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-617 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-619 ..... c 32 N81-14186 *
US-PATENT-CLASS-455-65 ..... c 32 N87-25511 *
US-PATENT-CLASS-455-67 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-71 ..... c 32 N81-14186 *
US-PATENT-CLASS-455-73 ..... c 32 N85-29118 *
US-PATENT-CLASS-455-98 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-99 ..... c 33 N91-31530 *
US-PATENT-CLASS-464-132 ..... c 37 N91-17387 *
US-PATENT-CLASS-464-56 ..... c 37 N91-17387 *
US-PATENT-CLASS-464-56 ..... c 37 N91-17388 *
US-PATENT-CLASS-467-28 ..... c 39 N80-10507 *
US-PATENT-CLASS-47-1.2 ..... c 51 N75-25503 *
US-PATENT-CLASS-47-1.4 ..... c 31 N73-32750 *
US-PATENT-CLASS-47-1.4 ..... c 54 N91-31803 * #
US-PATENT-CLASS-47-17 ..... c 31 N73-32750 *
US-PATENT-CLASS-47-26 ..... c 37 N83-26078 *
US-PATENT-CLASS-47-39 ..... c 51 N75-25503 *
US-PATENT-CLASS-47-58 ..... c 51 N75-25503 *
US-PATENT-CLASS-47-58 ..... c 51 N83-17045 *
US-PATENT-CLASS-47-58 ..... c 45 N84-12654 *
US-PATENT-CLASS-47-62 ..... c 54 N91-31803 * #
US-PATENT-CLASS-474-205 ..... c 37 N80-32717 *
US-PATENT-CLASS-474-220 ..... c 37 N87-17034 *
US-PATENT-CLASS-48-DIG.8 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-10-3 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-102A ..... c 28 N80-10374 *
US-PATENT-CLASS-48-107 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-116 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-116 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-117 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-117 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-117 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-197-R ..... c 25 N86-25428 *
US-PATENT-CLASS-48-197R ..... c 44 N76-29704 *
US-PATENT-CLASS-48-197R ..... c 44 N77-10636 *
US-PATENT-CLASS-48-197R ..... c 28 N91-14495 *
US-PATENT-CLASS-48-203 ..... c 28 N91-14495 *
US-PATENT-CLASS-48-212 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-215 ..... c 44 N76-29700 *
US-PATENT-CLASS-48-61 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-61 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-63 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-75 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-77 ..... c 28 N91-14495 *
US-PATENT-CLASS-48-89 ..... c 44 N82-16475 *
US-PATENT-CLASS-48-95 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-95 ..... c 44 N76-29700 *
US-PATENT-CLASS-48-99 ..... c 44 N82-16475 *
US-PATENT-CLASS-482-68 ..... c 52 N93-14708 *
US-PATENT-CLASS-482-69 ..... c 52 N93-14708 *
US-PATENT-CLASS-49-DIG.1 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-171 ..... c 31 N81-19343 *
US-PATENT-CLASS-49-253 ..... c 18 N90-19278 *
US-PATENT-CLASS-49-479 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-485 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-68 ..... c 18 N74-22136 *
US-PATENT-CLASS-5-345 ..... c 05 N70-33285 *
US-PATENT-CLASS-5-459 ..... c 03 N84-33394 *
US-PATENT-CLASS-5-69 ..... c 05 N72-11085 *
US-PATENT-CLASS-5-81-R ..... c 85 N87-21755 *
US-PATENT-CLASS-5-82 ..... c 05 N71-23159 *
US-PATENT-CLASS-501-123 ..... c 27 N92-16122 *
US-PATENT-CLASS-501-127 ..... c 27 N92-16122 *
US-PATENT-CLASS-501-39 ..... c 24 N92-16026 *
US-PATENT-CLASS-501-54 ..... c 24 N92-16026 *
US-PATENT-CLASS-501-88 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-88 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-91 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-91 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-92 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-92 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-92 ..... c 27 N92-34160 *
US-PATENT-CLASS-501-93 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-93 ..... c 27 N92-34160 *
US-PATENT-CLASS-501-96 ..... c 27 N92-34160 *
US-PATENT-CLASS-501-97 ..... c 27 N92-34160 *
US-PATENT-CLASS-502-217 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-218 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-226 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-239 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-241 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-245 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-324 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-324 ..... c 25 N91-21270 *
US-PATENT-CLASS-502-325 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-339 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-339 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-344 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-34 ..... c 25 N91-21270 *
US-PATENT-CLASS-502-352 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-38 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-53 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-73 ..... c 25 N92-10073 *
US-PATENT-CLASS-505-1 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-1 ..... c 76 N92-10681 *
US-PATENT-CLASS-505-1 ..... c 14 N92-15081 *
US-PATENT-CLASS-505-1 ..... c 74 N92-28571 *
US-PATENT-CLASS-505-701 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-702 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-703 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-703 ..... c 74 N92-28571 *
US-PATENT-CLASS-505-704 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-728 ..... c 76 N92-10681 *
US-PATENT-CLASS-505-848 ..... c 74 N92-28571 *
US-PATENT-CLASS-505-862 ..... c 76 N92-22041 *
US-PATENT-CLASS-505-866 ..... c 74 N92-28571 *
US-PATENT-CLASS-505-871 ..... c 76 N92-22041 *
US-PATENT-CLASS-505-876 ..... c 37 N92-29099 *
US-PATENT-CLASS-51-170 ..... c 15 N71-26134 *
US-PATENT-CLASS-51-216 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-225 ..... c 37 N74-27905 *
US-PATENT-CLASS-51-234 ..... c 37 N74-27905 *
US-PATENT-CLASS-51-235 ..... c 37 N78-17383 *
US-PATENT-CLASS-51-235 ..... c 76 N80-18951 *
US-PATENT-CLASS-51-277 ..... c 74 N80-24149 *
US-PATENT-CLASS-51-281-R ..... c 31 N87-25491 *
US-PATENT-CLASS-51-283R ..... c 74 N80-24149 *
US-PATENT-CLASS-51-283 ..... c 46 N74-23069 *
US-PATENT-CLASS-51-320 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-323 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-57 ..... c 15 N71-22705 *
US-PATENT-CLASS-51-73R ..... c 37 N85-21650 *
US-PATENT-CLASS-51-97R ..... c 37 N74-27905 *
US-PATENT-CLASS-52-DIG.10 .... c 18 N72-25540 *
US-PATENT-CLASS-52-DIG.10 .... c 18 N72-25541 *
US-PATENT-CLASS-52-108 ..... c 15 N72-18477 *
US-PATENT-CLASS-52-108 ..... c 31 N81-27323 *
US-PATENT-CLASS-52-108 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-109 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-110 ..... c 37 N86-25791 *
US-PATENT-CLASS-52-111 ..... c 31 N81-27324 *
US-PATENT-CLASS-52-111 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-111 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-117 ..... c 44 N77-32582 *
US-PATENT-CLASS-52-126.5 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-127.7 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-127 ..... c 15 N71-21531 *
US-PATENT-CLASS-52-144 ..... c 71 N91-27913 *
US-PATENT-CLASS-52-169 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-171 ..... c 11 N73-12265 *
US-PATENT-CLASS-52-171 ..... c 74 N85-29750 *
US-PATENT-CLASS-52-173R ..... c 44 N77-31601 *
US-PATENT-CLASS-52-173 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-1 ..... c 15 N72-28496 *
US-PATENT-CLASS-52-232 ..... c 37 N81-14317 *
US-PATENT-CLASS-52-236 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-249 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-272 ..... c 31 N71-24035 *
US-PATENT-CLASS-52-284 ..... c 32 N73-13921 *
US-PATENT-CLASS-52-2 ..... c 32 N71-21045 *
US-PATENT-CLASS-52-2 ..... c 44 N77-32583 *
US-PATENT-CLASS-52-309.15 .... c 31 N87-16918 *
US-PATENT-CLASS-52-309.1 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-391 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-3 ..... c 31 N71-16080 *
US-PATENT-CLASS-52-404 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-404 ..... c 16 N84-22601 *
US-PATENT-CLASS-52-506 ..... c 16 N84-22601 *
US-PATENT-CLASS-52-506 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-511 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-51 ..... c 44 N77-31601 *
US-PATENT-CLASS-52-573 ..... c 15 N72-28496 *
US-PATENT-CLASS-52-573 ..... c 18 N89-28554 *
US-PATENT-CLASS-52-594 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-594 ..... c 32 N73-13921 *
US-PATENT-CLASS-52-632 ..... c 31 N81-27324 *
US-PATENT-CLASS-52-632 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-632 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-632 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-637 ..... c 39 N76-31562 *

US-PATENT-CLASS-52-637 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-645 ..... c 31 N81-25259 *
US-PATENT-CLASS-52-645 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-645 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-646 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-646 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-646 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-646 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-646 ..... c 18 N88-28958 *
US-PATENT-CLASS-52-646 ..... c 37 N88-29180 *
US-PATENT-CLASS-52-646 ..... c 18 N91-21221 *
US-PATENT-CLASS-52-646 ..... c 18 N91-27199 *
US-PATENT-CLASS-52-648 ..... c 11 N72-25287 *
US-PATENT-CLASS-52-648 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-648 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-648 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-648 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-648 ..... c 18 N88-28958 *
US-PATENT-CLASS-52-648 ..... c 37 N88-29180 *
US-PATENT-CLASS-52-648 ..... c 18 N89-28554 *
US-PATENT-CLASS-52-64 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-651 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-655 ..... c 11 N72-25287 *
US-PATENT-CLASS-52-705 ..... c 37 N76-19437 *
US-PATENT-CLASS-52-71 ..... c 18 N75-27040 *
US-PATENT-CLASS-52-726 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-726 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-743 ..... c 37 N81-14317 *
US-PATENT-CLASS-52-745 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-745 ..... c 31 N81-27323 *
US-PATENT-CLASS-52-745 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-749 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-758F ..... c 37 N76-19437 *
US-PATENT-CLASS-52-806 ..... c 24 N84-11214 *
US-PATENT-CLASS-52-808 ..... c 24 N84-11214 *
US-PATENT-CLASS-52-80 ..... c 18 N72-25540 *
US-PATENT-CLASS-52-80 ..... c 18 N72-25541 *
US-PATENT-CLASS-52-80 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-814 ..... c 18 N84-33450 *
US-PATENT-CLASS-52-814 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-814 ..... c 31 N89-12786 *
US-PATENT-CLASS-52-81 ..... c 37 N82-32732 *
US-PATENT-CLASS-52-821 ..... c 31 N89-12786 *
US-PATENT-CLASS-521-109.1 .... c 27 N92-16123 *
US-PATENT-CLASS-521-124 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-125 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-127 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-135 ..... c 27 N92-16123 *
US-PATENT-CLASS-521-136 ..... c 27 N92-16123 *
US-PATENT-CLASS-521-141 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-142 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-145 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-146 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-149 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-157 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-178 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-178 ..... c 27 N92-16123 *
US-PATENT-CLASS-521-189 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-27 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-32 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-54 ..... c 27 N92-16123 *
US-PATENT-CLASS-521-55 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-62 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-82 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-84.1 ..... c 27 N92-16123 *
US-PATENT-CLASS-521-907 ..... c 27 N92-16123 *
US-PATENT-CLASS-521-918 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-97 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-98 ..... c 27 N90-16949 *
US-PATENT-CLASS-522-162 ..... c 27 N90-21198 *
US-PATENT-CLASS-522-165 ..... c 27 N90-21198 *
US-PATENT-CLASS-523-135 ..... c 27 N85-29044 *
US-PATENT-CLASS-523-205 ..... c 27 N83-19900 *
US-PATENT-CLASS-523-433 ..... c 24 N86-19380 *
US-PATENT-CLASS-523-434 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-435 ..... c 24 N84-11213 *
US-PATENT-CLASS-523-440 ..... c 27 N83-34043 *
US-PATENT-CLASS-523-443 ..... c 27 N83-34043 *
US-PATENT-CLASS-523-445 ..... c 24 N86-19380 *
US-PATENT-CLASS-523-445 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-454 ..... c 24 N84-34571 *
US-PATENT-CLASS-523-454 ..... c 27 N85-34282 *
US-PATENT-CLASS-523-456 ..... c 24 N84-11213 *
US-PATENT-CLASS-523-458 ..... c 24 N84-34571 *
US-PATENT-CLASS-523-458 ..... c 27 N85-34282 *
US-PATENT-CLASS-523-461 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-66468 ... c 24 N86-19380 *
US-PATENT-CLASS-524-104 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-171 ..... c 27 N84-22747 *
US-PATENT-CLASS-524-173 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-233 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-233 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-366 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-371 ..... c 27 N84-14324 *
US-PATENT-CLASS-524-378 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-388 ..... c 27 N85-29044 *
US-PATENT-CLASS-524-404 ..... c 27 N87-22845 *
US-PATENT-CLASS-524-436 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-437 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-494 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-495 ..... c 27 N92-21711 *
US-PATENT-CLASS-524-496 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-500 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-503 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-530 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-548 ..... c 27 N86-20560 *
US-PATENT-CLASS-524-548 ..... c 27 N87-22845 *
US-PATENT-CLASS-524-564 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-567 ..... c 27 N85-29044 *
US-PATENT-CLASS-524-600 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-600 ..... c 27 N91-15402 *
US-PATENT-CLASS-524-607 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-726 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-786 ..... c 27 N83-19900 *
US-PATENT-CLASS-525-107 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-108 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-113 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-115 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-119 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-119 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-122 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-181 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-181 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-182 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-182 ..... c 27 N87-22845 *
US-PATENT-CLASS-525-183 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-183 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-184 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-184 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-186 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-186 ..... c 27 N86-20560 *
US-PATENT-CLASS-525-229 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-26 ..... c 27 N85-29043 *
US-PATENT-CLASS-525-275 ..... c 27 N92-22044 *
US-PATENT-CLASS-525-282 ..... c 27 N84-14322 *
US-PATENT-CLASS-525-282 ..... c 27 N87-15304 *
US-PATENT-CLASS-525-287 ..... c 27 N84-14322 *
US-PATENT-CLASS-525-326 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-336 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-340 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-36 ..... c 27 N87-22848 *
US-PATENT-CLASS-525-374 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-375 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-384 ..... c 28 N81-15119 *
US-PATENT-CLASS-525-389 ..... c 27 N84-22750 *
US-PATENT-CLASS-525-397 ..... c 27 N88-18725 *
US-PATENT-CLASS-525-417 ..... c 27 N84-22745 *
US-PATENT-CLASS-525-420 ..... c 27 N85-20123 *
US-PATENT-CLASS-525-420 ..... c 27 N92-29157 *
US-PATENT-CLASS-525-420 ..... c 27 N92-31792 *
US-PATENT-CLASS-525-421 ..... c 27 N92-22044 *
US-PATENT-CLASS-525-421 ..... c 24 N93-13416 *
US-PATENT-CLASS-525-422 ..... c 27 N91-31307 *
US-PATENT-CLASS-525-422 ..... c 27 N92-21711 *
US-PATENT-CLASS-525-422 ..... c 27 N92-22044 *
US-PATENT-CLASS-525-422 ..... c 27 N93-11059 *
US-PATENT-CLASS-525-423 ..... c 24 N86-19380 *
US-PATENT-CLASS-525-425 ..... c 33 N88-23941 *
US-PATENT-CLASS-525-426 ..... c 27 N80-26446 *
US-PATENT-CLASS-525-426 ..... c 27 N84-22746 *
US-PATENT-CLASS-525-426 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-426 ..... c 24 N93-13416 *
US-PATENT-CLASS-525-432 ..... c 27 N86-19456 *
US-PATENT-CLASS-525-432 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-432 ..... c 24 N91-25200 *
US-PATENT-CLASS-525-432 ..... c 27 N92-21711 *
US-PATENT-CLASS-525-432 ..... c 27 N92-29157 *
US-PATENT-CLASS-525-432 ..... c 27 N93-11059 *
US-PATENT-CLASS-525-432 ..... c 24 N93-13416 *
US-PATENT-CLASS-525-434 ..... c 27 N92-31792 *
US-PATENT-CLASS-525-436 ..... c 27 N86-19456 *
US-PATENT-CLASS-525-436 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-436 ..... c 27 N91-15402 *
US-PATENT-CLASS-525-436 ..... c 27 N92-31792 *
US-PATENT-CLASS-525-436 ..... c 24 N93-13416 *
US-PATENT-CLASS-525-471 ..... c 27 N91-31307 *
US-PATENT-CLASS-525-474 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-474 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-47 ..... c 27 N85-29043 *
US-PATENT-CLASS-525-484 ..... c 24 N84-34571 *
US-PATENT-CLASS-525-4 ..... c 25 N80-23383 *
US-PATENT-CLASS-525-527 ..... c 24 N86-19380 *
US-PATENT-CLASS-525-532 ..... c 23 N85-28973 *
US-PATENT-CLASS-525-534 ..... c 27 N84-22747 *
US-PATENT-CLASS-525-534 ..... c 23 N85-28973 *
US-PATENT-CLASS-525-534 ..... c 27 N86-27450 *
US-PATENT-CLASS-525-535 ..... c 27 N84-22747 *
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US-PATENT-CLASS-525-536 ..... c 27 N84-22747 *
US-PATENT-CLASS-525-56 ..... c 23 N81-29160 *
US-PATENT-CLASS-525-61 ..... c 27 N81-24257 *
US-PATENT-CLASS-525-61 ..... c 23 N81-29160 *
US-PATENT-CLASS-525-61 ..... c 25 N83-13188 *
US-PATENT-CLASS-525-903 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-903 ..... c 27 N92-21711 *
US-PATENT-CLASS-525-903 ..... c 27 N93-11059 *
US-PATENT-CLASS-525-903 ..... c 24 N93-13416 *
US-PATENT-CLASS-525-905 ..... c 27 N88-18725 *
US-PATENT-CLASS-526-13 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-193 ..... c 27 N78-15276 *
US-PATENT-CLASS-526-1 ..... c 27 N76-24405 *
US-PATENT-CLASS-526-201 ..... c 25 N81-19242 *
US-PATENT-CLASS-526-204 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-217 ..... c 27 N85-21350 *
US-PATENT-CLASS-526-217 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-225 ..... c 27 N78-15276 *
US-PATENT-CLASS-526-23 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-248 ..... c 27 N92-22044 *
US-PATENT-CLASS-526-249 ..... c 27 N92-22044 *
US-PATENT-CLASS-526-255 ..... c 27 N76-24405 *
US-PATENT-CLASS-526-258 ..... c 27 N92-16121 *
US-PATENT-CLASS-526-259 ..... c 27 N83-34040 *
US-PATENT-CLASS-526-261 ..... c 27 N80-24438 *
US-PATENT-CLASS-526-262 ..... c 27 N81-27272 *
US-PATENT-CLASS-526-262 ..... c 27 N84-22745 *
US-PATENT-CLASS-526-262 ..... c 27 N84-27885 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21347 *
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US-PATENT-CLASS-526-262 ..... c 25 N85-28982 *
US-PATENT-CLASS-526-262 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-262 ..... c 27 N86-20560 *
US-PATENT-CLASS-526-262 ..... c 24 N86-21590 *
US-PATENT-CLASS-526-262 ..... c 27 N87-22845 *
US-PATENT-CLASS-526-262 ..... c 23 N90-21118 *
US-PATENT-CLASS-526-262 ..... c 23 N91-14418 *
US-PATENT-CLASS-526-262 ..... c 27 N92-22044 *
US-PATENT-CLASS-526-262 ..... c 27 N93-19327 *
US-PATENT-CLASS-526-262 ..... c 27 N93-19388 *
US-PATENT-CLASS-526-265 ..... c 27 N86-20560 *
US-PATENT-CLASS-526-265 ..... c 24 N86-28131 *
US-PATENT-CLASS-526-274 ..... c 27 N85-21347 *
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US-PATENT-CLASS-526-275 ..... c 27 N80-24438 *
US-PATENT-CLASS-526-276 ..... c 27 N78-32256 *
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US-PATENT-CLASS-526-27 ..... c 27 N78-32256 *
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US-PATENT-CLASS-526-285 ..... c 27 N86-27450 *
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US-PATENT-CLASS-526-285 ..... c 27 N93-19388 *
US-PATENT-CLASS-526-328 ..... c 27 N85-29043 *
US-PATENT-CLASS-526-329.2 .... c 27 N85-29043 *
US-PATENT-CLASS-526-49 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-50 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-60 ..... c 27 N90-23544 *
US-PATENT-CLASS-526-7 ..... c 44 N79-25481 *
US-PATENT-CLASS-526-88 ..... c 25 N81-19242 *
US-PATENT-CLASS-526-914 ..... c 28 N81-15119 *
US-PATENT-CLASS-526-9 ..... c 44 N79-25481 *
US-PATENT-CLASS-528-102 ..... c 24 N86-19380 *
US-PATENT-CLASS-528-103 ..... c 24 N86-19380 *
US-PATENT-CLASS-528-106 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-108 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-108 ..... c 27 N87-25469 *
US-PATENT-CLASS-528-10 ..... c 27 N88-29040 *
US-PATENT-CLASS-528-10 ..... c 27 N90-21177 *
US-PATENT-CLASS-528-110 ..... c 24 N84-11213 *
US-PATENT-CLASS-528-113 ..... c 27 N85-34281 *
US-PATENT-CLASS-528-117 ..... c 27 N85-34281 *
US-PATENT-CLASS-528-118 ..... c 27 N81-17260 *
US-PATENT-CLASS-528-124 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-125 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-125 ..... c 27 N84-22749 *
US-PATENT-CLASS-528-125 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-125 ..... c 27 N89-14337 *
US-PATENT-CLASS-528-125 ..... c 27 N90-16950 *
US-PATENT-CLASS-528-125 ..... c 27 N90-23545 *
US-PATENT-CLASS-528-125 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-125 ..... c 27 N91-15403 *
US-PATENT-CLASS-528-125 ..... c 23 N91-27220 *
US-PATENT-CLASS-528-125 ..... c 25 N92-16043 *
US-PATENT-CLASS-528-125 ..... c 27 N92-28751 *
US-PATENT-CLASS-528-125 ..... c 27 N92-33008 *
US-PATENT-CLASS-528-125 ..... c 27 N92-33014 *
US-PATENT-CLASS-528-125 ..... c 27 N92-33015 *
US-PATENT-CLASS-528-125 ..... c 27 N93-14709 *
US-PATENT-CLASS-528-125 ..... c 23 N93-18283 *
US-PATENT-CLASS-528-126 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-126 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-126 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-126 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-126 ..... c 27 N90-23545 *
US-PATENT-CLASS-528-126 ..... c 27 N90-23546 *
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US-PATENT-CLASS-528-126 ..... c 23 N91-27220 *
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US-PATENT-CLASS-528-127 ..... c 27 N79-28307 *
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US-PATENT-CLASS-528-128 ..... c 27 N89-14337 *
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US-PATENT-CLASS-528-128 ..... c 27 N92-33014 *
US-PATENT-CLASS-528-128 ..... c 27 N92-33015 *
US-PATENT-CLASS-528-128 ..... c 27 N93-14709 *
US-PATENT-CLASS-528-128 ..... c 23 N93-18283 *
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US-PATENT-CLASS-528-166 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-167 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-168 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-168 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-168 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-168 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-168 ..... c 27 N87-16909 *
US-PATENT-CLASS-528-168 ..... c 27 N87-25469 *
US-PATENT-CLASS-528-168 ..... c 23 N93-18283 *
US-PATENT-CLASS-528-169 ..... c 23 N93-18283 *
US-PATENT-CLASS-528-170 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-170 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-170 ..... c 27 N86-31726 * #
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US-PATENT-CLASS-528-172 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-172 ..... c 27 N84-22749 *
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US-PATENT-CLASS-528-172 ..... c 25 N92-16043 *
US-PATENT-CLASS-528-172 ..... c 27 N92-33008 *
US-PATENT-CLASS-528-172 ..... c 27 N92-33015 *
US-PATENT-CLASS-528-172 ..... c 27 N93-14709 *
US-PATENT-CLASS-528-172 ..... c 23 N93-18283 *
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US-PATENT-CLASS-528-173 ..... c 27 N93-14709 *
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US-PATENT-CLASS-528-176 ..... c 27 N91-15403 *
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US-PATENT-CLASS-528-179 ..... c 27 N92-29157 *
US-PATENT-CLASS-528-179 ..... c 27 N92-33014 *
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US-PATENT-CLASS-528-182 ..... c 27 N92-33014 *
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US-PATENT-CLASS-528-188 ..... c 27 N90-23546 *
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US-PATENT-CLASS-528-188 ..... c 27 N93-14709 *
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US-PATENT-CLASS-528-210 ..... c 27 N82-11206 *
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US-PATENT-CLASS-528-212 ..... c 27 N90-23545 *
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US-PATENT-CLASS-528-220 ..... c 27 N83-34040 *
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US-PATENT-CLASS-528-220 ..... c 27 N86-31726 * #
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US-PATENT-CLASS-528-220 ..... c 27 N92-28751 *
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US-PATENT-CLASS-528-222 ..... c 27 N81-29229 *
US-PATENT-CLASS-528-222 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-222 ..... c 27 N83-34041 *
US-PATENT-CLASS-528-222 ..... c 27 N86-29039 *
US-PATENT-CLASS-528-222 ..... c 27 N91-27372 *
US-PATENT-CLASS-528-223 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-224 ..... c 27 N92-28751 *
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US-PATENT-CLASS-528-225 ..... c 27 N91-27372 *
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US-PATENT-CLASS-528-226 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-226 ..... c 27 N85-21348 *
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US-PATENT-CLASS-528-227 ..... c 27 N91-27372 *
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US-PATENT-CLASS-528-228 ..... c 27 N82-11206 *
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US-PATENT-CLASS-528-229 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-229 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-229 ..... c 27 N87-21112 *
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US-PATENT-CLASS-528-229 ..... c 27 N92-33008 *
US-PATENT-CLASS-528-22 ..... c 27 N92-16121 *
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US-PATENT-CLASS-528-233 ..... c 27 N91-27372 *
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US-PATENT-CLASS-528-25 ..... c 27 N84-22747 *
US-PATENT-CLASS-528-26 ..... c 27 N84-22747 *
US-PATENT-CLASS-528-26 ..... c 27 N87-14516 *
US-PATENT-CLASS-528-271 ..... c 27 N84-27884 *
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US-PATENT-CLASS-528-304 ..... c 27 N85-29043 *
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US-PATENT-CLASS-528-30 ..... c 27 N90-21177 *
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US-PATENT-CLASS-528-310 ..... c 27 N81-24256 *
US-PATENT-CLASS-528-310 ..... c 27 N82-24338 *
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US-PATENT-CLASS-528-321 ..... c 27 N85-21347 *
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US-PATENT-CLASS-528-321 ..... c 27 N86-31726 * #
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US-PATENT-CLASS-528-322 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-322 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-322 ..... c 27 N86-31726 * #
US-PATENT-CLASS-528-322 ..... c 27 N87-16909 *
US-PATENT-CLASS-528-322 ..... c 27 N87-21112 *
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US-PATENT-CLASS-528-327 ..... c 27 N87-21112 *
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US-PATENT-CLASS-528-337 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-337 ..... c 27 N86-32568 * #
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US-PATENT-CLASS-528-352 ..... c 27 N92-29157 *
US-PATENT-CLASS-528-352 ..... c 27 N92-33008 *
US-PATENT-CLASS-528-352 ..... c 27 N92-33015 *
US-PATENT-CLASS-528-353 ..... c 27 N81-19296 *
US-PATENT-CLASS-528-353 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-353 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-353 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-353 ..... c 27 N86-19456 *
US-PATENT-CLASS-528-353 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-353 ..... c 27 N90-16950 *
US-PATENT-CLASS-528-353 ..... c 23 N90-19300 *
US-PATENT-CLASS-528-353 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-353 ..... c 27 N91-15402 *
US-PATENT-CLASS-528-353 ..... c 27 N91-15403 *
US-PATENT-CLASS-528-353 ..... c 27 N92-29157 *
US-PATENT-CLASS-528-353 ..... c 27 N92-33008 *
US-PATENT-CLASS-528-353 ..... c 27 N92-33015 *
US-PATENT-CLASS-528-361 ..... c 24 N84-11213 *
US-PATENT-CLASS-528-362 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-362 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-362 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-362 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-362 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-362 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-362 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-38 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-394 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-399 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-399 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-399 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-399 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-401 ..... c 27 N79-22300 *
US-PATENT-CLASS-528-401 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-401 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-401 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-401 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-401 ..... c 23 N82-28353 *
US-PATENT-CLASS-528-401 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-402 ..... c 25 N82-24312 *
US-PATENT-CLASS-528-406 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-407 ..... c 24 N84-34571 *
US-PATENT-CLASS-528-407 ..... c 27 N85-34281 *
US-PATENT-CLASS-528-407 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-407 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-413 ..... c 27 N87-24564 *
US-PATENT-CLASS-528-422 ..... c 27 N79-22300 *
US-PATENT-CLASS-528-422 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-422 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-422 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-422 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-422 ..... c 23 N82-28353 *
US-PATENT-CLASS-528-422 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-423 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-423 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-481 ..... c 27 N80-24438 *
US-PATENT-CLASS-528-4 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-4 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-4 ..... c 27 N88-29040 *
US-PATENT-CLASS-528-4 ..... c 27 N90-21177 *

US-PATENT-CLASS-528-6 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-6 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-6 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-72 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-73 ..... c 25 N80-16116 *
US-PATENT-CLASS-528-73 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-7 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-7 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-86 ..... c 23 N85-28973 *
US-PATENT-CLASS-528-92 ..... c 24 N84-34571 *
US-PATENT-CLASS-528-92 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-94 ..... c 27 N85-34281 *
US-PATENT-CLASS-53-102 ..... c 15 N71-21528 *
US-PATENT-CLASS-53-112A ..... c 15 N73-27405 *
US-PATENT-CLASS-53-22A ..... c 15 N73-27405 *
US-PATENT-CLASS-53-22 ..... c 15 N71-23256 *
US-PATENT-CLASS-53-429 ..... c 09 N82-29330 *
US-PATENT-CLASS-53-9 ..... c 37 N77-23482 *
US-PATENT-CLASS-530-362 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-363 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-364 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-387 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-413 ..... c 25 N92-33009 *
US-PATENT-CLASS-530-422 ..... c 52 N90-20616 *
US-PATENT-CLASS-536-105 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-536-85 . c 27 N77-30236 *
US-PATENT-CLASS-536-56 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-58 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-84 ..... c 27 N77-30236 *
US-PATENT-CLASS-538-117 ..... c 27 N81-17260 *
US-PATENT-CLASS-544-193 ..... c 27 N78-15276 *
US-PATENT-CLASS-544-193 ..... c 27 N79-28307 *
US-PATENT-CLASS-544-195 ..... c 27 N78-32256 *
US-PATENT-CLASS-544-215 ..... c 27 N84-22744 *
US-PATENT-CLASS-546-262 ..... c 27 N87-22847 *
US-PATENT-CLASS-546-264 ..... c 27 N87-22847 *
US-PATENT-CLASS-546-339 ..... c 27 N87-16908 *
US-PATENT-CLASS-546-346 ..... c 27 N87-16908 *
US-PATENT-CLASS-546-350 ..... c 27 N87-16908 *
US-PATENT-CLASS-547-131 ..... c 23 N82-28353 *
US-PATENT-CLASS-548-143 ..... c 23 N92-29141 *
US-PATENT-CLASS-548-400 ..... c 23 N90-21118 *
US-PATENT-CLASS-548-413 ..... c 27 N83-31854 *
US-PATENT-CLASS-548-413 ..... c 23 N86-19376 *
US-PATENT-CLASS-548-413 ..... c 27 N87-23751 *
US-PATENT-CLASS-548-415 ..... c 27 N83-31854 *
US-PATENT-CLASS-548-415 ..... c 27 N84-22745 *
US-PATENT-CLASS-548-520 ..... c 27 N90-23545 *
US-PATENT-CLASS-548-524 ..... c 23 N90-21118 *
US-PATENT-CLASS-548-549 ..... c 23 N91-14419 *
US-PATENT-CLASS-549-241 ..... c 23 N88-26404 *
US-PATENT-CLASS-549-241 ..... c 25 N90-23497 *
US-PATENT-CLASS-549-335 ..... c 23 N85-33187 *
US-PATENT-CLASS-55-DIG.25 .... c 35 N84-17555 *
US-PATENT-CLASS-55-DIG.30 .... c 35 N84-17555 *
US-PATENT-CLASS-55-DIG.35 .... c 54 N75-27761 *
US-PATENT-CLASS-55-DIG.42 .... c 37 N85-29283 *
US-PATENT-CLASS-55-100 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-100 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-101 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-105 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-105 ..... c 33 N90-20320 *
US-PATENT-CLASS-55-118 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-122 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-126 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-127 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-12 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-131 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-138 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-139 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-139 ..... c 33 N90-20320 *
US-PATENT-CLASS-55-145 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-15-8 ..... c 52 N79-14749 *
US-PATENT-CLASS-55-155 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-158 ..... c 18 N71-20742 *
US-PATENT-CLASS-55-158 ..... c 44 N77-22607 *
US-PATENT-CLASS-55-158 ..... c 25 N82-21269 *
US-PATENT-CLASS-55-159 ..... c 34 N74-30608 *
US-PATENT-CLASS-55-159 ..... c 37 N79-21345 *
US-PATENT-CLASS-55-159 ..... c 31 N90-20254 *
US-PATENT-CLASS-55-15 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-15 ..... c 71 N85-22104 *
US-PATENT-CLASS-55-15 ..... c 25 N92-33611 *
US-PATENT-CLASS-55-160 ..... c 15 N71-15968 *
US-PATENT-CLASS-55-160 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-160 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-16 ..... c 06 N72-31140 *
US-PATENT-CLASS-55-179 ..... c 14 N71-17588 *
US-PATENT-CLASS-55-179 ..... c 54 N77-32722 *
US-PATENT-CLASS-55-182 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-194 ..... c 35 N83-29652 *
US-PATENT-CLASS-55-197 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-199 ..... c 34 N74-30608 *
US-PATENT-CLASS-55-202 ..... c 35 N83-29652 *
US-PATENT-CLASS-55-203 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-204 ..... c 15 N71-23023 *
US-PATENT-CLASS-55-204 ..... c 44 N83-10501 *
US-PATENT-CLASS-55-204 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-205 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-208 ..... c 14 N71-18483 *
US-PATENT-CLASS-55-228 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-241 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-242 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-242 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-255 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-259 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-26-9 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-261 ..... c 35 N76-18401 *
US-PATENT-CLASS-55-269 ..... c 54 N77-32722 *
US-PATENT-CLASS-55-270 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-277 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-277 ..... c 71 N85-22104 *
US-PATENT-CLASS-55-277 ..... c 25 N92-33611 *
US-PATENT-CLASS-55-283 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-291 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-2 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-2 ..... c 28 N81-14103 *
US-PATENT-CLASS-55-2 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-306 ..... c 28 N70-34788 *
US-PATENT-CLASS-55-35 ..... c 05 N70-41297 *
US-PATENT-CLASS-55-360 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-386 ..... c 35 N75-26334 *
US-PATENT-CLASS-55-38 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-3 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-400 ..... c 11 N71-10777 *
US-PATENT-CLASS-55-407 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-408 ..... c 15 N70-40062 *
US-PATENT-CLASS-55-418 ..... c 15 N71-22721 *
US-PATENT-CLASS-55-43 ..... c 34 N74-30608 *
US-PATENT-CLASS-55-446 ..... c 15 N72-22489 *
US-PATENT-CLASS-55-464 ..... c 15 N72-22489 *
US-PATENT-CLASS-55-466 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-46 ..... c 31 N90-20254 *
US-PATENT-CLASS-55-493 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-498 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-502 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-510 ..... c 25 N74-12813 *
US-PATENT-CLASS-55-518 ..... c 25 N74-12813 *
US-PATENT-CLASS-55-521 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-521 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-523 ..... c 34 N76-27515 *
US-PATENT-CLASS-55-526 ..... c 34 N76-27515 *
US-PATENT-CLASS-55-528 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-52 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-55 ..... c 06 N72-31140 *
US-PATENT-CLASS-55-66 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-67 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-67 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-68 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-68 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-6 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-72 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-73 ..... c 45 N79-12584 *
US-PATENT-CLASS-55-74 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-74 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-75 ..... c 15 N71-26185 *
US-PATENT-CLASS-55-75 ..... c 54 N91-31803 * #
US-PATENT-CLASS-55-84 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-89 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-96 ..... c 35 N84-17555 *
US-PATENT-CLASS-552-101 ..... c 23 N91-17141 *
US-PATENT-CLASS-552-101 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-108 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-110 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-113 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-115 ..... c 23 N91-25185 *
US-PATENT-CLASS-556-402 ..... c 27 N90-21177 *
US-PATENT-CLASS-556-410 ..... c 25 N85-21280 *
US-PATENT-CLASS-556-436 ..... c 27 N86-21675 *
US-PATENT-CLASS-558-145 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-190 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-190 ..... c 23 N90-20133 *
US-PATENT-CLASS-558-193 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-193 ..... c 23 N90-23475 *
US-PATENT-CLASS-558-80 ..... c 23 N88-24692 *
US-PATENT-CLASS-56-73 ..... c 74 N86-26190 *
US-PATENT-CLASS-560-104 ..... c 27 N87-16907 *
US-PATENT-CLASS-562-413 ..... c 25 N90-23497 *
US-PATENT-CLASS-562-415 ..... c 25 N90-23497 *
US-PATENT-CLASS-562-417 ..... c 25 N90-23497 *
US-PATENT-CLASS-564-113 ..... c 23 N86-19376 *
US-PATENT-CLASS-564-13 ..... c 23 N88-24692 *
US-PATENT-CLASS-564-15 ..... c 27 N86-32568 * #
US-PATENT-CLASS-564-229 ..... c 27 N81-24256 *
US-PATENT-CLASS-564-229 ..... c 23 N82-28353 *
US-PATENT-CLASS-564-243 ..... c 27 N84-22744 *
US-PATENT-CLASS-564-243 ..... c 23 N86-21582 *
US-PATENT-CLASS-564-315 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-315 ..... c 27 N92-33015 *
US-PATENT-CLASS-564-323 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-330 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-330 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-342 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-344 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-396 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-396 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-430 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-430 ..... c 23 N89-12667 *
US-PATENT-CLASS-568-14 ..... c 27 N86-32568 * #
US-PATENT-CLASS-568-2 ..... c 27 N82-18389 *
US-PATENT-CLASS-568-445 ..... c 23 N82-16174 *
US-PATENT-CLASS-568-497 ..... c 23 N82-16174 *
US-PATENT-CLASS-568-4 ..... c 27 N82-18389 *
US-PATENT-CLASS-568-4 ..... c 27 N84-22750 *
US-PATENT-CLASS-568-5 ..... c 27 N82-18389 *
US-PATENT-CLASS-568-5 ..... c 27 N84-22750 *
US-PATENT-CLASS-568-852 ..... c 27 N80-32514 *
US-PATENT-CLASS-568-861 ..... c 27 N80-32514 *
US-PATENT-CLASS-57-906 ..... c 37 N82-18601 *
US-PATENT-CLASS-570-123 ..... c 25 N82-24312 *
US-PATENT-CLASS-570-129 ..... c 25 N82-24312 *
US-PATENT-CLASS-58-24 ..... c 10 N71-26326 *
US-PATENT-CLASS-585-24 ..... c 27 N86-21675 *
US-PATENT-CLASS-60.39.08 ..... c 37 N79-11403 *
US-PATENT-CLASS-60-108 ..... c 33 N71-16104 *
US-PATENT-CLASS-60-1 ..... c 15 N72-33477 *
US-PATENT-CLASS-60-1 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-200A ..... c 33 N72-25911 *
US-PATENT-CLASS-60-200A ..... c 33 N73-25952 *
US-PATENT-CLASS-60-200A ..... c 27 N78-17206 *
US-PATENT-CLASS-60-200R ..... c 20 N82-18314 *
US-PATENT-CLASS-60-200 ..... c 28 N71-14044 *
US-PATENT-CLASS-60-202 ..... c 28 N70-41922 *
US-PATENT-CLASS-60-202 ..... c 28 N71-10574 *
US-PATENT-CLASS-60-202 ..... c 25 N71-21694 *
US-PATENT-CLASS-60-202 ..... c 28 N71-21822 *
US-PATENT-CLASS-60-202 ..... c 28 N71-23081 *
US-PATENT-CLASS-60-202 ..... c 28 N71-23293 *
US-PATENT-CLASS-60-202 ..... c 28 N71-25213 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26173 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26642 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26781 *
US-PATENT-CLASS-60-202 ..... c 28 N72-11709 *
US-PATENT-CLASS-60-202 ..... c 28 N72-22770 *
US-PATENT-CLASS-60-202 ..... c 28 N72-22771 *
US-PATENT-CLASS-60-202 ..... c 28 N73-24783 *
US-PATENT-CLASS-60-202 ..... c 25 N73-25760 *
US-PATENT-CLASS-60-202 ..... c 28 N73-27699 *
US-PATENT-CLASS-60-202 ..... c 20 N77-10148 *
US-PATENT-CLASS-60-202 ..... c 20 N77-20162 *
US-PATENT-CLASS-60-202 ..... c 20 N85-21256 *
US-PATENT-CLASS-60-202 ..... c 20 N89-25279 *
US-PATENT-CLASS-60-203.1 ..... c 20 N86-26368 *
US-PATENT-CLASS-60-203.1 ..... c 20 N87-16875 *
US-PATENT-CLASS-60-203.1 ..... c 09 N88-28939 *
US-PATENT-CLASS-60-203 ..... c 20 N80-14188 *
US-PATENT-CLASS-60-204 ..... c 07 N78-17055 *
US-PATENT-CLASS-60-204 ..... c 07 N78-18067 *
US-PATENT-CLASS-60-204 ..... c 44 N81-24519 *
US-PATENT-CLASS-60-204 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-204 ..... c 20 N92-15122 *
US-PATENT-CLASS-60-211 ..... c 28 N73-13773 *
US-PATENT-CLASS-60-214 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-215 ..... c 06 N73-30097 *
US-PATENT-CLASS-60-215 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-217 ..... c 12 N71-17631 *
US-PATENT-CLASS-60-223 ..... c 37 N93-14702 *
US-PATENT-CLASS-60-223 ..... c 20 N93-18856 *
US-PATENT-CLASS-60-225 ..... c 28 N71-10780 *
US-PATENT-CLASS-60-226A ..... c 07 N77-17059 *
US-PATENT-CLASS-60-226A ..... c 07 N79-14096 *
US-PATENT-CLASS-60-226A ..... c 07 N79-14097 *
US-PATENT-CLASS-60-226A ..... c 07 N82-26293 *
US-PATENT-CLASS-60-226R ..... c 07 N78-18066 *
US-PATENT-CLASS-60-226R ..... c 07 N77-14025 *
US-PATENT-CLASS-60-226R ..... c 07 N77-28118 *
US-PATENT-CLASS-60-226R ..... c 07 N78-17055 *
US-PATENT-CLASS-60-226R ..... c 07 N78-17056 *
US-PATENT-CLASS-60-226R ..... c 07 N78-25089 *
US-PATENT-CLASS-60-226R ..... c 07 N79-14096 *
US-PATENT-CLASS-60-226R ..... c 07 N81-19116 *
US-PATENT-CLASS-60-228 ..... c 07 N77-17059 *
US-PATENT-CLASS-60-230 ..... c 07 N78-27121 *
US-PATENT-CLASS-60-236 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-238 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-239 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-23 ..... c 09 N71-26182 *
US-PATENT-CLASS-60-23 ..... c 15 N72-12409 *
US-PATENT-CLASS-60-23 ..... c 21 N72-31637 *
US-PATENT-CLASS-60-23 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-240 ..... c 28 N71-24736 *
US-PATENT-CLASS-60-240 ..... c 28 N73-13773 *
US-PATENT-CLASS-60-240 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-240 ..... c 20 N92-10054 *
US-PATENT-CLASS-60-240 ..... c 20 N92-15122 *
US-PATENT-CLASS-60-243 ..... c 33 N71-21507 *
US-PATENT-CLASS-60-243 ..... c 15 N71-27432 *
US-PATENT-CLASS-60-243 ..... c 28 N73-13773 *

US-PATENT-CLASS-60-243 ..... c 20 N79-21124 *
US-PATENT-CLASS-60-243 ..... c 20 N92-15122 *
US-PATENT-CLASS-60-251 ..... c 28 N70-41311 *
US-PATENT-CLASS-60-251 ..... c 27 N71-21819 *
US-PATENT-CLASS-60-254 ..... c 28 N72-20758 *
US-PATENT-CLASS-60-254 ..... c 28 N73-24784 *
US-PATENT-CLASS-60-256 ..... c 28 N73-24784 *
US-PATENT-CLASS-60-257 ..... c 31 N70-41948 *
US-PATENT-CLASS-60-258 ..... c 15 N70-22192 * #
US-PATENT-CLASS-60-258 ..... c 28 N71-22983 *
US-PATENT-CLASS-60-258 ..... c 28 N71-28849 *
US-PATENT-CLASS-60-258 ..... c 28 N72-17843 *
US-PATENT-CLASS-60-258 ..... c 15 N72-25455 *
US-PATENT-CLASS-60-258 ..... c 20 N74-13502 *
US-PATENT-CLASS-60-258 ..... c 20 N87-14420 *
US-PATENT-CLASS-60-258 ..... c 20 N92-10054 *
US-PATENT-CLASS-60-259 ..... c 28 N70-41275 *
US-PATENT-CLASS-60-259 ..... c 20 N74-13502 *
US-PATENT-CLASS-60-259 ..... c 34 N77-30399 *
US-PATENT-CLASS-60-259 ..... c 20 N80-14188 *
US-PATENT-CLASS-60-259 ..... c 05 N81-26114 *
US-PATENT-CLASS-60-259 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-259 ..... c 20 N92-15122 *
US-PATENT-CLASS-60-259 ..... c 37 N93-14702 *
US-PATENT-CLASS-60-25 ..... c 15 N73-24513 *
US-PATENT-CLASS-60-25 ..... c 37 N74-21060 *
US-PATENT-CLASS-60-260 ..... c 28 N70-41992 *
US-PATENT-CLASS-60-260 ..... c 28 N72-18766 *
US-PATENT-CLASS-60-260 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-261 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-262 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-262 ..... c 07 N78-18067 *
US-PATENT-CLASS-60-262 ..... c 07 N83-33884 *
US-PATENT-CLASS-60-263 ..... c 28 N71-24321 *
US-PATENT-CLASS-60-263 ..... c 07 N77-28118 *
US-PATENT-CLASS-60-264 ..... c 07 N80-32392 *
US-PATENT-CLASS-60-264 ..... c 20 N89-25279 *
US-PATENT-CLASS-60-265 ..... c 28 N71-20942 *
US-PATENT-CLASS-60-265 ..... c 33 N72-25911 *
US-PATENT-CLASS-60-265 ..... c 33 N73-25952 *
US-PATENT-CLASS-60-265 ..... c 20 N76-14191 *
US-PATENT-CLASS-60-266 ..... c 33 N71-28852 *
US-PATENT-CLASS-60-266 ..... c 28 N72-23810 *
US-PATENT-CLASS-60-267 ..... c 33 N71-29053 *
US-PATENT-CLASS-60-267 ..... c 33 N72-25911 *
US-PATENT-CLASS-60-267 ..... c 33 N73-25952 *
US-PATENT-CLASS-60-267 ..... c 28 N73-32606 *
US-PATENT-CLASS-60-267 ..... c 20 N76-14191 *
US-PATENT-CLASS-60-267 ..... c 34 N79-13288 *
US-PATENT-CLASS-60-267 ..... c 34 N79-13289 *
US-PATENT-CLASS-60-267 ..... c 34 N80-24573 *
US-PATENT-CLASS-60-267 ..... c 44 N81-24519 *
US-PATENT-CLASS-60-267 ..... c 05 N81-26114 *
US-PATENT-CLASS-60-269 ..... c 07 N83-33884 *
US-PATENT-CLASS-60-26 ..... c 21 N72-31637 *
US-PATENT-CLASS-60-26 ..... c 03 N73-20040 *
US-PATENT-CLASS-60-271 ..... c 28 N72-11708 *
US-PATENT-CLASS-60-271 ..... c 28 N72-23810 *
US-PATENT-CLASS-60-271 ..... c 07 N78-17055 *
US-PATENT-CLASS-60-271 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-271 ..... c 07 N83-33884 *
US-PATENT-CLASS-60-271 ..... c 37 N93-14702 *
US-PATENT-CLASS-60-275 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-291 ..... c 31 N73-13898 *
US-PATENT-CLASS-60-300 ..... c 28 N80-10374 *
US-PATENT-CLASS-60-303 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-303 ..... c 37 N84-33808 *
US-PATENT-CLASS-60-311 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-316 ..... c 34 N76-18364 *
US-PATENT-CLASS-60-35.3 ..... c 28 N70-33265 *
US-PATENT-CLASS-60-35.3 ..... c 28 N70-40367 *
US-PATENT-CLASS-60-35.54 ..... c 28 N70-34294 *
US-PATENT-CLASS-60-35.54 ..... c 28 N70-38645 *
US-PATENT-CLASS-60-35.54 ..... c 28 N71-29153 *
US-PATENT-CLASS-60-35.55 ..... c 28 N70-34162 *
US-PATENT-CLASS-60-35.55 ..... c 28 N70-38711 *
US-PATENT-CLASS-60-35.55 ..... c 21 N71-15582 *
US-PATENT-CLASS-60-35.55 ..... c 15 N71-28951 *
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US-PATENT-CLASS-60-35.5 ..... c 28 N70-34175 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-36802 *
US-PATENT-CLASS-60-35.5 ..... c 21 N70-36938 *
US-PATENT-CLASS-60-35.5 ..... c 25 N70-36946 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-37245 *
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US-PATENT-CLASS-60-35.5 ..... c 28 N71-15661 *
US-PATENT-CLASS-60-35.60 ..... c 28 N71-15659 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33284 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33331 *
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US-PATENT-CLASS-60-35.6 ..... c 15 N70-36535 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-36806 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-36910 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-38249 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-38504 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N70-38710 *
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US-PATENT-CLASS-60-35.6 ..... c 33 N71-15623 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N71-15660 *
US-PATENT-CLASS-60-35.6 ..... c 14 N71-27186 *
US-PATENT-CLASS-60-36 ..... c 15 N72-33477 *
US-PATENT-CLASS-60-37 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-39.02 ..... c 07 N86-20389 *
US-PATENT-CLASS-60-39.03 ..... c 07 N77-23106 *
US-PATENT-CLASS-60-39.03 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-39.06 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-39.06 ..... c 07 N81-29129 *
US-PATENT-CLASS-60-39.07 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.07 ..... c 07 N82-32366 *
US-PATENT-CLASS-60-39.07 ..... c 07 N83-36029 *
US-PATENT-CLASS-60-39.07 ..... c 07 N86-20389 *
US-PATENT-CLASS-60-39.091 .... c 37 N93-14702 *
US-PATENT-CLASS-60-39.12 ..... c 28 N91-14495 *
US-PATENT-CLASS-60-39.14 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.14 ..... c 07 N79-10057 *
US-PATENT-CLASS-60-39.182 .... c 28 N91-14495 *
US-PATENT-CLASS-60-39.23 ..... c 20 N76-14190 *
US-PATENT-CLASS-60-39.23 ..... c 07 N85-35195 *
US-PATENT-CLASS-60-39.24 ..... c 07 N81-19115 *
US-PATENT-CLASS-60-39.27 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-39.28R ... c 28 N73-19793 *
US-PATENT-CLASS-60-39.28R ... c 07 N77-23106 *
US-PATENT-CLASS-60-39.28R ... c 37 N78-10467 *
US-PATENT-CLASS-60-39.28R ... c 37 N78-24545 *
US-PATENT-CLASS-60-39.28R ... c 37 N79-11403 *
US-PATENT-CLASS-60-39.281 .... c 20 N92-10054 *
US-PATENT-CLASS-60-39.29 ..... c 20 N76-14190 *
US-PATENT-CLASS-60-39.29 ..... c 35 N76-14431 *
US-PATENT-CLASS-60-39.29 ..... c 07 N82-32366 *
US-PATENT-CLASS-60-39.29 ..... c 07 N84-33410 *
US-PATENT-CLASS-60-39.31 ..... c 07 N78-18066 *
US-PATENT-CLASS-60-39.31 ..... c 07 N79-14096 *
US-PATENT-CLASS-60-39.33 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.36 ..... c 28 N71-20330 *
US-PATENT-CLASS-60-39.36 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.46M ... c 20 N82-18314 *
US-PATENT-CLASS-60-39.465 .... c 20 N86-26368 *
US-PATENT-CLASS-60-39.46 ..... c 27 N71-15635 *
US-PATENT-CLASS-60-39.46 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-39.47 ..... c 27 N71-16392 *
US-PATENT-CLASS-60-39.48 ..... c 28 N70-38199 *
US-PATENT-CLASS-60-39.48 ..... c 28 N70-39931 *
US-PATENT-CLASS-60-39.48 ..... c 27 N71-28929 *
US-PATENT-CLASS-60-39.51R ... c 25 N78-10224 *
US-PATENT-CLASS-60-39.52 ..... c 07 N78-25089 *
US-PATENT-CLASS-60-39.65 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.65 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.65 ..... c 34 N78-27357 *
US-PATENT-CLASS-60-39.66 ..... c 15 N70-36411 *
US-PATENT-CLASS-60-39.66 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.66 ..... c 07 N77-23106 *
US-PATENT-CLASS-60-39.66 ..... c 37 N78-10467 *
US-PATENT-CLASS-60-39.66 ..... c 37 N79-11403 *
US-PATENT-CLASS-60-39.69R ... c 34 N78-27357 *
US-PATENT-CLASS-60-39.72 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.74A ... c 15 N72-25455 *
US-PATENT-CLASS-60-39.74R ... c 23 N73-30665 *
US-PATENT-CLASS-60-39.74R ... c 20 N76-14190 *
US-PATENT-CLASS-60-39.74 ..... c 28 N70-33241 *
US-PATENT-CLASS-60-39.74 ..... c 28 N72-17843 *
US-PATENT-CLASS-60-39.74 ..... c 20 N79-21125 *
US-PATENT-CLASS-60-39.82E .... c 20 N78-24275 *
US-PATENT-CLASS-60-39.83 ..... c 07 N84-33410 *
US-PATENT-CLASS-60-39-48 ..... c 28 N72-11709 *
US-PATENT-CLASS-60-415 ..... c 85 N87-21755 *
US-PATENT-CLASS-60-508 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-516 ..... c 20 N75-24837 *
US-PATENT-CLASS-60-516 ..... c 44 N82-24640 *
US-PATENT-CLASS-60-517 ..... c 44 N76-29701 *
US-PATENT-CLASS-60-517 ..... c 37 N81-25370 *
US-PATENT-CLASS-60-518 ..... c 37 N81-14318 *
US-PATENT-CLASS-60-518 ..... c 37 N81-17432 *
US-PATENT-CLASS-60-51 ..... c 15 N71-27754 *
US-PATENT-CLASS-60-520 ..... c 37 N80-31790 *
US-PATENT-CLASS-60-524 ..... c 44 N81-17518 *
US-PATENT-CLASS-60-525 ..... c 37 N81-25370 *
US-PATENT-CLASS-60-527 ..... c 44 N74-33379 *
US-PATENT-CLASS-60-527 ..... c 37 N77-12402 *
US-PATENT-CLASS-60-527 ..... c 37 N77-19458 *
US-PATENT-CLASS-60-527 ..... c 37 N78-31426 *
US-PATENT-CLASS-60-527 ..... c 37 N86-19604 *
US-PATENT-CLASS-60-527 ..... c 35 N88-29151 *
US-PATENT-CLASS-60-528 ..... c 37 N86-19604 *
US-PATENT-CLASS-60-530 ..... c 20 N75-24837 *
US-PATENT-CLASS-60-53 ..... c 37 N77-22479 *
US-PATENT-CLASS-60-54.5 ..... c 15 N71-10658 *
US-PATENT-CLASS-60-560 ..... c 35 N78-10428 *
US-PATENT-CLASS-60-572 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-574 ..... c 35 N78-10428 *
US-PATENT-CLASS-60-606 ..... c 28 N80-10374 *
US-PATENT-CLASS-60-606 ..... c 37 N84-33808 *
US-PATENT-CLASS-60-632 ..... c 20 N80-18097 *
US-PATENT-CLASS-60-634 ..... c 37 N87-23983 *
US-PATENT-CLASS-60-638 ..... c 37 N87-23983 *
US-PATENT-CLASS-60-641.12 .... c 44 N84-23018 *
US-PATENT-CLASS-60-641.14 .... c 44 N82-24640 *
US-PATENT-CLASS-60-641.8 ..... c 44 N92-29143 *
US-PATENT-CLASS-60-641 ..... c 44 N75-32581 *
US-PATENT-CLASS-60-641 ..... c 44 N77-32582 *
US-PATENT-CLASS-60-641 ..... c 44 N78-17460 *
US-PATENT-CLASS-60-641 ..... c 44 N78-32542 *
US-PATENT-CLASS-60-641 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-641 ..... c 44 N81-17518 *
US-PATENT-CLASS-60-645 ..... c 34 N79-20335 *
US-PATENT-CLASS-60-649 ..... c 34 N79-20335 *
US-PATENT-CLASS-60-659 ..... c 44 N75-32581 *
US-PATENT-CLASS-60-659 ..... c 44 N76-31667 *
US-PATENT-CLASS-60-659 ..... c 44 N92-29143 *
US-PATENT-CLASS-60-671 ..... c 44 N78-32542 *
US-PATENT-CLASS-60-698 ..... c 44 N84-23018 *
US-PATENT-CLASS-60-716 ..... c 44 N84-23018 *
US-PATENT-CLASS-60-721 ..... c 71 N79-20827 *
US-PATENT-CLASS-60-721 ..... c 71 N83-32515 *
US-PATENT-CLASS-60-721 ..... c 71 N83-32516 *
US-PATENT-CLASS-60-721 ..... c 71 N84-23233 *
US-PATENT-CLASS-60-726 ..... c 07 N81-29129 *
US-PATENT-CLASS-60-726 ..... c 07 N82-32366 *
US-PATENT-CLASS-60-730 ..... c 05 N81-26114 *
US-PATENT-CLASS-60-730 ..... c 37 N84-22958 *
US-PATENT-CLASS-60-730 ..... c 25 N90-11824 *
US-PATENT-CLASS-60-732 ..... c 25 N90-11824 *
US-PATENT-CLASS-60-733 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-736 ..... c 37 N84-22958 *
US-PATENT-CLASS-60-736 ..... c 07 N86-20389 *
US-PATENT-CLASS-60-737 ..... c 07 N81-29129 *
US-PATENT-CLASS-60-746 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-746 ..... c 20 N87-14420 *
US-PATENT-CLASS-60-748 ..... c 07 N85-35195 *
US-PATENT-CLASS-60-757 ..... c 07 N84-24577 *
US-PATENT-CLASS-60-836 ..... c 24 N78-14096 *
US-PATENT-CLASS-60-97 ..... c 03 N71-12260 *
US-PATENT-CLASS-604-114 ..... c 52 N83-27577 *
US-PATENT-CLASS-604-151 ..... c 52 N83-27577 *
US-PATENT-CLASS-604-280 ..... c 52 N83-21785 *
US-PATENT-CLASS-604-368 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-378 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-396 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-8 ..... c 52 N83-21785 *
US-PATENT-CLASS-606-106 ..... c 52 N92-33032 *
US-PATENT-CLASS-606-127 ..... c 52 N92-33032 *
US-PATENT-CLASS-606-78 ..... c 52 N92-33032 *
US-PATENT-CLASS-61-83 ..... c 18 N74-22136 *
US-PATENT-CLASS-62.224 ..... c 35 N92-29156 *
US-PATENT-CLASS-62-DIG.1 ..... c 34 N84-22903 *
US-PATENT-CLASS-62-DIG.5 ..... c 05 N81-26114 *
US-PATENT-CLASS-62-100 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-100 ..... c 28 N78-24365 *
US-PATENT-CLASS-62-121 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-128 ..... c 35 N84-28018 *
US-PATENT-CLASS-62-129 ..... c 31 N76-14284 *
US-PATENT-CLASS-62-12 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-148 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-15 ..... c 06 N70-34946 *
US-PATENT-CLASS-62-176 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-18 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-207 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-209 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-217 ..... c 31 N77-10229 *
US-PATENT-CLASS-62-235.1 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-238.3 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-239 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-244 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-259 ..... c 05 N73-20137 *
US-PATENT-CLASS-62-259 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-259 ..... c 54 N78-32721 *
US-PATENT-CLASS-62-264 ..... c 34 N84-22903 *
US-PATENT-CLASS-62-268 ..... c 14 N71-20427 *
US-PATENT-CLASS-62-268 ..... c 34 N79-20336 *
US-PATENT-CLASS-62-269 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-285 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-288 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-289 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-290 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-295 ..... c 35 N83-32026 *
US-PATENT-CLASS-62-2 ..... c 15 N71-15906 *
US-PATENT-CLASS-62-315 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-317 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-333 ..... c 34 N91-21473 *
US-PATENT-CLASS-62-335 ..... c 31 N93-13422 *

US-PATENT-CLASS-62-376 ..... c 31 N78-17237 *
US-PATENT-CLASS-62-376 ..... c 34 N79-20336 *
US-PATENT-CLASS-62-383 ..... c 33 N82-24419 *
US-PATENT-CLASS-62-384 ..... c 23 N71-24725 *
US-PATENT-CLASS-62-384 ..... c 31 N87-21159 *
US-PATENT-CLASS-62-384 ..... c 34 N91-21473 *
US-PATENT-CLASS-62-3 ..... c 20 N75-24837 *
US-PATENT-CLASS-62-3 ..... c 34 N78-17335 *
US-PATENT-CLASS-62-3 ..... c 34 N83-29625 *
US-PATENT-CLASS-62-3 ..... c 31 N85-29082 *
US-PATENT-CLASS-62-40 ..... c 15 N71-24044 *
US-PATENT-CLASS-62-40 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-434 ..... c 31 N93-13422 *
US-PATENT-CLASS-62-45 ..... c 15 N70-33323 *
US-PATENT-CLASS-62-45 ..... c 31 N70-41871 *
US-PATENT-CLASS-62-45 ..... c 33 N71-25351 *
US-PATENT-CLASS-62-45 ..... c 33 N71-28892 *
US-PATENT-CLASS-62-45 ..... c 15 N73-12486 *
US-PATENT-CLASS-62-45 ..... c 35 N74-15093 *
US-PATENT-CLASS-62-45 ..... c 31 N89-29578 *
US-PATENT-CLASS-62-461 ..... c 31 N92-15203 *
US-PATENT-CLASS-62-467R ..... c 34 N84-22903 *
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US-PATENT-CLASS-62-467 ..... c 31 N88-14223 *
US-PATENT-CLASS-62-467 ..... c 31 N89-12785 *
US-PATENT-CLASS-62-467 ..... c 31 N89-14351 *
US-PATENT-CLASS-62-467 ..... c 31 N90-21215 *
US-PATENT-CLASS-62-467 ..... c 31 N93-13422 *
US-PATENT-CLASS-62-475 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-476 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-47 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-48 ..... c 28 N78-24365 *
US-PATENT-CLASS-62-48 ..... c 31 N83-31897 *
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US-PATENT-CLASS-62-48 ..... c 31 N89-29578 *
US-PATENT-CLASS-62-49 ..... c 31 N76-14284 *
US-PATENT-CLASS-62-4 ..... c 44 N77-32581 *
US-PATENT-CLASS-62-4 ..... c 44 N78-17460 *
US-PATENT-CLASS-62-50 ..... c 15 N70-34247 *
US-PATENT-CLASS-62-50 ..... c 35 N78-12390 *
US-PATENT-CLASS-62-51.2 ..... c 35 N92-29156 *
US-PATENT-CLASS-62-514 R ..... c 35 N83-32026 *
US-PATENT-CLASS-62-514-JT ..... c 31 N89-14351 *
US-PATENT-CLASS-62-514-R ..... c 31 N87-21159 *
US-PATENT-CLASS-62-514-R ..... c 37 N87-23982 *
US-PATENT-CLASS-62-514-R ..... c 31 N89-12785 *
US-PATENT-CLASS-62-514JT ..... c 31 N77-10229 *
US-PATENT-CLASS-62-514R ..... c 35 N78-12390 *
US-PATENT-CLASS-62-514R ..... c 31 N78-17237 *
US-PATENT-CLASS-62-514R ..... c 31 N78-25256 *
US-PATENT-CLASS-62-514R ..... c 51 N79-10694 *
US-PATENT-CLASS-62-514R ..... c 31 N79-17029 *
US-PATENT-CLASS-62-514R ..... c 34 N79-20336 *
US-PATENT-CLASS-62-514R ..... c 35 N81-14287 *
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US-PATENT-CLASS-62-514R ..... c 34 N83-34221 *
US-PATENT-CLASS-62-514R ..... c 31 N88-14223 *
US-PATENT-CLASS-62-514 ..... c 23 N71-26654 *
US-PATENT-CLASS-62-51 ..... c 15 N72-17453 *
US-PATENT-CLASS-62-55.5 ..... c 11 N71-24964 *
US-PATENT-CLASS-62-55.5 ..... c 15 N72-22484 *
US-PATENT-CLASS-62-55 ..... c 15 N70-38020 *
US-PATENT-CLASS-62-55 ..... c 34 N77-30399 *
US-PATENT-CLASS-62-56 ..... c 05 N72-11084 *
US-PATENT-CLASS-62-62 ..... c 34 N83-34221 *
US-PATENT-CLASS-62-6 ..... c 15 N69-23190 * #
US-PATENT-CLASS-62-6 ..... c 23 N71-15467 *
US-PATENT-CLASS-62-6 ..... c 15 N71-23025 *
US-PATENT-CLASS-62-6 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-6 ..... c 37 N76-29590 *
US-PATENT-CLASS-62-6 ..... c 44 N76-29701 *
US-PATENT-CLASS-62-6 ..... c 44 N83-28574 *
US-PATENT-CLASS-62-6 ..... c 31 N85-21404 *
US-PATENT-CLASS-62-78 ..... c 51 N79-10694 *
US-PATENT-CLASS-62-7 ..... c 15 N73-12486 *
US-PATENT-CLASS-62-80 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-85 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-89 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-90 ..... c 34 N91-21473 *
US-PATENT-CLASS-62-93 ..... c 15 N69-21465 * #
US-PATENT-CLASS-62-93 ..... c 03 N72-28025 *
US-PATENT-CLASS-62-93 ..... c 77 N75-20139 *
US-PATENT-CLASS-623-57 ..... c 54 N93-14870 *
US-PATENT-CLASS-623-62 ..... c 54 N91-32795 *
US-PATENT-CLASS-623-63 ..... c 54 N91-32795 *
US-PATENT-CLASS-623-65 ..... c 54 N93-14870 *
US-PATENT-CLASS-624-3.2 ..... c 31 N92-15203 *
US-PATENT-CLASS-624-467 ..... c 31 N92-15203 *
US-PATENT-CLASS-624-500 ..... c 31 N92-15203 *
US-PATENT-CLASS-624-51.2 ..... c 31 N92-15203 *
US-PATENT-CLASS-64-18 ..... c 15 N71-28467 *
US-PATENT-CLASS-64-27 ..... c 15 N71-28959 *
US-PATENT-CLASS-64-28 ..... c 15 N69-27505 * #
US-PATENT-CLASS-65-DIG.11 .... c 37 N74-21063 *
US-PATENT-CLASS-65-DIG.4 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-DIG.7 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-102 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-108 ..... c 35 N77-24455 *
US-PATENT-CLASS-65-11.1 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-12 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-134 ..... c 71 N83-35781 *
US-PATENT-CLASS-65-134 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-136 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-13 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-142 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-142 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-142 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-142 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-142 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-142 ..... c 26 N86-32551 *
US-PATENT-CLASS-65-160 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-1 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-21.2 ..... c 26 N86-32551 *
US-PATENT-CLASS-65-21.3 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-21.3 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-21.4 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-21.4 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-21.4 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-21.4 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-21.4 ..... c 31 N91-32240 *
US-PATENT-CLASS-65-213 ..... c 71 N84-16940 *
US-PATENT-CLASS-65-214 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-22 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-22 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-22 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-22 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-2 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-2 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-2 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-30R ..... c 27 N78-32260 *
US-PATENT-CLASS-65-32 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-3 ..... c 37 N75-26371 *
US-PATENT-CLASS-65-4B ..... c 71 N78-10837 *
US-PATENT-CLASS-65-43 ..... c 37 N75-15992 *
US-PATENT-CLASS-65-43 ..... c 24 N79-25143 *
US-PATENT-CLASS-65-59A ..... c 35 N77-24455 *
US-PATENT-CLASS-65-60D ..... c 27 N78-32260 *
US-PATENT-CLASS-65-61 ..... c 74 N80-24149 *
US-PATENT-CLASS-65-7 ..... c 18 N71-23088 *
US-PATENT-CLASS-65-87 ..... c 71 N78-10837 *
US-PATENT-CLASS-6554 ..... c 35 N77-24455 *
US-PATENT-CLASS-6564 ..... c 35 N77-24455 *
US-PATENT-CLASS-70-58 ..... c 33 N81-25299 *
US-PATENT-CLASS-71-98 ..... c 51 N83-17045 *
US-PATENT-CLASS-72-253 ..... c 15 N71-22797 *
US-PATENT-CLASS-72-258 ..... c 15 N73-13464 *
US-PATENT-CLASS-72-307 ..... c 15 N72-12408 *
US-PATENT-CLASS-72-324 ..... c 71 N86-21276 *
US-PATENT-CLASS-72-341 ..... c 71 N86-21276 *
US-PATENT-CLASS-72-34 ..... c 15 N71-21536 *
US-PATENT-CLASS-72-354 ..... c 15 N71-23811 *
US-PATENT-CLASS-72-363 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-364 ..... c 15 N71-18579 *
US-PATENT-CLASS-72-369 ..... c 15 N71-24679 *
US-PATENT-CLASS-72-436 ..... c 37 N79-28550 *
US-PATENT-CLASS-72-447 ..... c 15 N73-13463 *
US-PATENT-CLASS-72-451 ..... c 37 N79-28550 *
US-PATENT-CLASS-72-453 ..... c 37 N76-18454 *
US-PATENT-CLASS-72-467 ..... c 15 N71-23817 *
US-PATENT-CLASS-72-46 ..... c 24 N75-33181 *
US-PATENT-CLASS-72-470 ..... c 37 N79-28550 *
US-PATENT-CLASS-72-476 ..... c 15 N73-13463 *
US-PATENT-CLASS-72-53 ..... c 15 N71-18616 *
US-PATENT-CLASS-72-53 ..... c 15 N73-32360 *
US-PATENT-CLASS-72-54 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-56 ..... c 15 N70-34249 *
US-PATENT-CLASS-72-56 ..... c 15 N71-24833 *
US-PATENT-CLASS-72-56 ..... c 15 N71-24865 *
US-PATENT-CLASS-72-56 ..... c 15 N71-26148 *
US-PATENT-CLASS-72-60 ..... c 15 N71-24836 *
US-PATENT-CLASS-72-61 ..... c 15 N71-26346 *
US-PATENT-CLASS-72-63 ..... c 20 N75-18310 *
US-PATENT-CLASS-72-63 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-750 ..... c 35 N88-24927 *
US-PATENT-CLASS-72-83 ..... c 15 N71-22723 *
US-PATENT-CLASS-73-DIG.11 .... c 35 N78-18390 *
US-PATENT-CLASS-73-1-DV ..... c 71 N86-21276 *
US-PATENT-CLASS-73-1-DV ..... c 71 N87-21653 *
US-PATENT-CLASS-73-1B ..... c 35 N76-24523 *
US-PATENT-CLASS-73-1B ..... c 35 N84-28019 *
US-PATENT-CLASS-73-1DV ..... c 14 N73-27379 *
US-PATENT-CLASS-73-1F ..... c 35 N74-21019 *
US-PATENT-CLASS-73-1H ..... c 33 N92-33021 *
US-PATENT-CLASS-73-1R ..... c 14 N71-29134 *
US-PATENT-CLASS-73-1R ..... c 35 N75-15932 *
US-PATENT-CLASS-73-1R ..... c 35 N76-15432 *
US-PATENT-CLASS-73-100 ..... c 15 N70-41993 *
US-PATENT-CLASS-73-100 ..... c 32 N72-25877 *
US-PATENT-CLASS-73-103 ..... c 15 N71-17696 *
US-PATENT-CLASS-73-103 ..... c 14 N72-27412 *
US-PATENT-CLASS-73-103 ..... c 14 N73-32323 *
US-PATENT-CLASS-73-103 ..... c 35 N76-18400 *
US-PATENT-CLASS-73-104 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-105 ..... c 14 N70-34161 *
US-PATENT-CLASS-73-105 ..... c 14 N71-17586 *
US-PATENT-CLASS-73-115 ..... c 35 N79-14345 *
US-PATENT-CLASS-73-115 ..... c 07 N84-22559 *
US-PATENT-CLASS-73-116 ..... c 11 N70-33278 *
US-PATENT-CLASS-73-116 ..... c 11 N70-34844 *
US-PATENT-CLASS-73-116 ..... c 14 N70-40203 *
US-PATENT-CLASS-73-116 ..... c 11 N70-41677 *
US-PATENT-CLASS-73-116 ..... c 11 N71-10604 *
US-PATENT-CLASS-73-116 ..... c 31 N71-15643 *
US-PATENT-CLASS-73-117.1 ..... c 11 N72-27262 *
US-PATENT-CLASS-73-117.1 ..... c 09 N84-27749 *
US-PATENT-CLASS-73-117.4 ..... c 14 N71-20429 *
US-PATENT-CLASS-73-117.4 ..... c 28 N71-27094 *
US-PATENT-CLASS-73-117.4 ..... c 35 N75-29382 *
US-PATENT-CLASS-73-117 ..... c 14 N71-22965 *
US-PATENT-CLASS-73-12 ..... c 14 N71-23225 *
US-PATENT-CLASS-73-12 ..... c 14 N71-26161 *
US-PATENT-CLASS-73-12 ..... c 14 N72-16282 *
US-PATENT-CLASS-73-12 ..... c 14 N72-25411 *
US-PATENT-CLASS-73-12 ..... c 14 N73-32327 *
US-PATENT-CLASS-73-12 ..... c 35 N74-21062 *
US-PATENT-CLASS-73-12 ..... c 35 N75-33367 *
US-PATENT-CLASS-73-12 ..... c 75 N76-14931 *
US-PATENT-CLASS-73-12 ..... c 35 N77-18417 *
US-PATENT-CLASS-73-12 ..... c 43 N79-25443 *
US-PATENT-CLASS-73-12 ..... c 43 N80-14423 *
US-PATENT-CLASS-73-12 ..... c 43 N80-23711 *
US-PATENT-CLASS-73-12 ..... c 37 N84-33807 *
US-PATENT-CLASS-73-133R ..... c 35 N77-14407 *
US-PATENT-CLASS-73-133 ..... c 14 N71-23725 *
US-PATENT-CLASS-73-133 ..... c 15 N72-22482 *
US-PATENT-CLASS-73-134 ..... c 14 N70-40201 *
US-PATENT-CLASS-73-136R ..... c 15 N72-26371 *
US-PATENT-CLASS-73-136 ..... c 14 N70-34818 *
US-PATENT-CLASS-73-140 ..... c 11 N72-25288 *
US-PATENT-CLASS-73-141AB .... c 14 N72-33377 *
US-PATENT-CLASS-73-141A ..... c 14 N72-21405 *
US-PATENT-CLASS-73-141A ..... c 14 N72-22437 *
US-PATENT-CLASS-73-141A ..... c 35 N74-26945 *
US-PATENT-CLASS-73-141A ..... c 35 N74-27865 *
US-PATENT-CLASS-73-141A ..... c 35 N75-33369 *
US-PATENT-CLASS-73-141A ..... c 52 N81-20703 *
US-PATENT-CLASS-73-141 ..... c 14 N70-41957 *
US-PATENT-CLASS-73-141 ..... c 15 N71-20441 *
US-PATENT-CLASS-73-141 ..... c 14 N71-23790 *
US-PATENT-CLASS-73-141 ..... c 26 N71-25490 *
US-PATENT-CLASS-73-142 ..... c 15 N70-40180 *
US-PATENT-CLASS-73-142 ..... c 14 N71-20439 *
US-PATENT-CLASS-73-143 ..... c 35 N75-19615 *
US-PATENT-CLASS-73-143 ..... c 14 N75-24794 *
US-PATENT-CLASS-73-144 ..... c 15 N71-22878 *
US-PATENT-CLASS-73-147 ..... c 11 N70-33287 *
US-PATENT-CLASS-73-147 ..... c 14 N70-33386 *
US-PATENT-CLASS-73-147 ..... c 14 N70-34813 *
US-PATENT-CLASS-73-147 ..... c 11 N70-36913 *
US-PATENT-CLASS-73-147 ..... c 14 N70-40400 *
US-PATENT-CLASS-73-147 ..... c 14 N70-41366 *
US-PATENT-CLASS-73-147 ..... c 11 N71-15926 *
US-PATENT-CLASS-73-147 ..... c 09 N71-16086 *
US-PATENT-CLASS-73-147 ..... c 12 N71-20436 *
US-PATENT-CLASS-73-147 ..... c 09 N71-20816 *
US-PATENT-CLASS-73-147 ..... c 11 N71-21481 *
US-PATENT-CLASS-73-147 ..... c 11 N71-23030 *
US-PATENT-CLASS-73-147 ..... c 15 N71-27006 *
US-PATENT-CLASS-73-147 ..... c 15 N71-28740 *
US-PATENT-CLASS-73-147 ..... c 11 N71-33612 *
US-PATENT-CLASS-73-147 ..... c 11 N72-17183 *
US-PATENT-CLASS-73-147 ..... c 14 N72-21407 *
US-PATENT-CLASS-73-147 ..... c 11 N72-22246 *
US-PATENT-CLASS-73-147 ..... c 11 N73-12264 *
US-PATENT-CLASS-73-147 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-147 ..... c 12 N73-25262 *
US-PATENT-CLASS-73-147 ..... c 12 N73-28144 *
US-PATENT-CLASS-73-147 ..... c 09 N74-17955 *
US-PATENT-CLASS-73-147 ..... c 34 N74-27730 *
US-PATENT-CLASS-73-147 ..... c 09 N75-12969 *
US-PATENT-CLASS-73-147 ..... c 09 N76-23273 *
US-PATENT-CLASS-73-147 ..... c 34 N76-27517 *
US-PATENT-CLASS-73-147 ..... c 09 N77-10071 *
US-PATENT-CLASS-73-147 ..... c 09 N78-31129 *
US-PATENT-CLASS-73-147 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-147 ..... c 09 N79-21083 *
US-PATENT-CLASS-73-147 ..... c 02 N80-20224 *
US-PATENT-CLASS-73-147 ..... c 06 N81-17057 *
US-PATENT-CLASS-73-147 ..... c 09 N82-11088 *
US-PATENT-CLASS-73-147 ..... c 09 N82-23254 *
US-PATENT-CLASS-73-147 ..... c 71 N83-17235 *
US-PATENT-CLASS-73-147 ..... c 44 N83-21503 *

US-PATENT-CLASS-73-147 ..... c 44 N83-21504 *
US-PATENT-CLASS-73-147 ..... c 74 N83-21949 *
US-PATENT-CLASS-73-147 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-147 ..... c 09 N84-34448 *
US-PATENT-CLASS-73-147 ..... c 09 N85-21178 *
US-PATENT-CLASS-73-147 ..... c 35 N86-32696 *
US-PATENT-CLASS-73-147 ..... c 34 N87-21255 *
US-PATENT-CLASS-73-147 ..... c 09 N87-25334 *
US-PATENT-CLASS-73-147 ..... c 35 N87-28884 *
US-PATENT-CLASS-73-147 ..... c 02 N88-23759 *
US-PATENT-CLASS-73-147 ..... c 02 N89-12551 *
US-PATENT-CLASS-73-147 ..... c 35 N89-12841 *
US-PATENT-CLASS-73-147 ..... c 35 N89-14423 *
US-PATENT-CLASS-73-147 ..... c 35 N90-17117 *
US-PATENT-CLASS-73-147 ..... c 35 N90-23707 *
US-PATENT-CLASS-73-147 ..... c 09 N91-14356 *
US-PATENT-CLASS-73-147 ..... c 09 N91-14357 *
US-PATENT-CLASS-73-147 ..... c 35 N92-10185 *
US-PATENT-CLASS-73-147 ..... c 35 N92-21586 *
US-PATENT-CLASS-73-147 ..... c 02 N92-21588 *
US-PATENT-CLASS-73-147 ..... c 35 N92-21710 *
US-PATENT-CLASS-73-147 ..... c 09 N93-11057 *
US-PATENT-CLASS-73-147 ..... c 02 N93-18275 *
US-PATENT-CLASS-73-149 ..... c 14 N72-11363 *
US-PATENT-CLASS-73-149 ..... c 52 N74-10975 *
US-PATENT-CLASS-73-149 ..... c 35 N91-15511 *
US-PATENT-CLASS-73-149 ..... c 35 N91-21493 *
US-PATENT-CLASS-73-149 ..... c 35 N91-21495 *
US-PATENT-CLASS-73-15.4 ..... c 14 N71-17659 *
US-PATENT-CLASS-73-15.4 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-15.6 ..... c 14 N70-35368 *
US-PATENT-CLASS-73-15.6 ..... c 14 N71-24234 *
US-PATENT-CLASS-73-15.6 ..... c 14 N71-26136 *
US-PATENT-CLASS-73-15.6 ..... c 32 N72-25877 *
US-PATENT-CLASS-73-15.6 ..... c 09 N74-19528 *
US-PATENT-CLASS-73-15.6 ..... c 35 N76-24523 *
US-PATENT-CLASS-73-15.6 ..... c 35 N77-22450 *
US-PATENT-CLASS-73-15.6 ..... c 39 N78-10493 *
US-PATENT-CLASS-73-15R ..... c 33 N72-25913 *
US-PATENT-CLASS-73-15R ..... c 14 N73-28486 *
US-PATENT-CLASS-73-15R ..... c 25 N74-18551 *
US-PATENT-CLASS-73-15R ..... c 31 N74-27900 *
US-PATENT-CLASS-73-15R ..... c 09 N77-27131 *
US-PATENT-CLASS-73-15R ..... c 74 N81-17887 *
US-PATENT-CLASS-73-150-A ..... c 39 N86-20841 *
US-PATENT-CLASS-73-150R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-155 ..... c 46 N80-10709 *
US-PATENT-CLASS-73-155 ..... c 46 N80-24906 *
US-PATENT-CLASS-73-159 ..... c 31 N79-11246 *
US-PATENT-CLASS-73-15 ..... c 14 N70-34156 *
US-PATENT-CLASS-73-15 ..... c 14 N71-15992 *
US-PATENT-CLASS-73-15 ..... c 14 N71-22964 *
US-PATENT-CLASS-73-15 ..... c 11 N71-24985 *
US-PATENT-CLASS-73-15 ..... c 11 N71-28629 *
US-PATENT-CLASS-73-161 ..... c 11 N72-25288 *
US-PATENT-CLASS-73-167 ..... c 15 N84-16231 *
US-PATENT-CLASS-73-167 ..... c 25 N91-32196 *
US-PATENT-CLASS-73-170A ..... c 35 N78-27384 *
US-PATENT-CLASS-73-170A ..... c 48 N80-18667 *
US-PATENT-CLASS-73-170R ..... c 07 N73-20175 *
US-PATENT-CLASS-73-170R ..... c 14 N73-28487 *
US-PATENT-CLASS-73-170R ..... c 14 N73-32327 *
US-PATENT-CLASS-73-170R ..... c 33 N74-27862 *
US-PATENT-CLASS-73-170R ..... c 35 N75-33367 *
US-PATENT-CLASS-73-170R ..... c 91 N76-30131 *
US-PATENT-CLASS-73-170R ..... c 06 N83-10040 *
US-PATENT-CLASS-73-170R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-170R ..... c 19 N91-14412 *
US-PATENT-CLASS-73-170 ..... c 14 N71-14996 *
US-PATENT-CLASS-73-170 ..... c 17 N73-32415 *
US-PATENT-CLASS-73-178-R ..... c 06 N84-34443 *
US-PATENT-CLASS-73-178-R ..... c 06 N87-22678 *
US-PATENT-CLASS-73-178-R ..... c 02 N88-23759 *
US-PATENT-CLASS-73-178-T ..... c 09 N90-20096 *
US-PATENT-CLASS-73-178R ..... c 35 N75-29381 *
US-PATENT-CLASS-73-178R ..... c 04 N77-19056 *
US-PATENT-CLASS-73-178R ..... c 37 N78-27424 *
US-PATENT-CLASS-73-178R ..... c 35 N79-26372 *
US-PATENT-CLASS-73-178R ..... c 06 N81-17057 *
US-PATENT-CLASS-73-178R ..... c 04 N81-21047 *
US-PATENT-CLASS-73-178R ..... c 18 N81-29152 *
US-PATENT-CLASS-73-178R ..... c 06 N82-16075 *
US-PATENT-CLASS-73-178R ..... c 06 N83-10040 *
US-PATENT-CLASS-73-178R ..... c 06 N84-27733 *
US-PATENT-CLASS-73-178R ..... c 47 N92-29148 *
US-PATENT-CLASS-73-178T ..... c 06 N86-27280 *
US-PATENT-CLASS-73-178T ..... c 04 N91-31120 *
US-PATENT-CLASS-73-178 ..... c 14 N70-36807 *
US-PATENT-CLASS-73-178 ..... c 14 N70-40157 *
US-PATENT-CLASS-73-179 ..... c 34 N85-21568 *
US-PATENT-CLASS-73-17 ..... c 06 N71-24607 *
US-PATENT-CLASS-73-180 ..... c 35 N78-14364 *
US-PATENT-CLASS-73-180 ..... c 02 N80-28300 *
US-PATENT-CLASS-73-180 ..... c 35 N89-12841 *
US-PATENT-CLASS-73-182 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-182 ..... c 35 N74-32878 *
US-PATENT-CLASS-73-182 ..... c 35 N76-14429 *
US-PATENT-CLASS-73-182 ..... c 02 N80-28300 *
US-PATENT-CLASS-73-182 ..... c 35 N92-21586 *
US-PATENT-CLASS-73-187 ..... c 35 N85-20295 *
US-PATENT-CLASS-73-188 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-189 ..... c 20 N71-16281 *
US-PATENT-CLASS-73-189 ..... c 02 N71-23007 *
US-PATENT-CLASS-73-189 ..... c 14 N71-23726 *
US-PATENT-CLASS-73-189 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-189 ..... c 14 N73-25460 *
US-PATENT-CLASS-73-189 ..... c 35 N76-24524 *
US-PATENT-CLASS-73-189 ..... c 34 N76-27517 *
US-PATENT-CLASS-73-189 ..... c 34 N77-27345 *
US-PATENT-CLASS-73-189 ..... c 34 N79-12359 *
US-PATENT-CLASS-73-189 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-189 ..... c 47 N84-28292 *
US-PATENT-CLASS-73-190H ..... c 35 N74-22095 *
US-PATENT-CLASS-73-190R ..... c 34 N74-27859 *
US-PATENT-CLASS-73-190R ..... c 35 N81-19426 *
US-PATENT-CLASS-73-190 ..... c 33 N71-15641 *
US-PATENT-CLASS-73-190 ..... c 14 N71-22989 *
US-PATENT-CLASS-73-190 ..... c 33 N71-23085 *
US-PATENT-CLASS-73-190 ..... c 33 N71-29051 *
US-PATENT-CLASS-73-194A ..... c 14 N72-17329 *
US-PATENT-CLASS-73-194EM ... c 14 N73-32326 *
US-PATENT-CLASS-73-194EM ... c 35 N74-21018 *
US-PATENT-CLASS-73-194E ..... c 14 N73-20478 *
US-PATENT-CLASS-73-194E ..... c 05 N73-32015 *
US-PATENT-CLASS-73-194F ..... c 14 N72-11365 *
US-PATENT-CLASS-73-194M ..... c 05 N73-32015 *
US-PATENT-CLASS-73-194M ..... c 35 N75-30503 *
US-PATENT-CLASS-73-194R ..... c 34 N76-27517 *
US-PATENT-CLASS-73-194VS .... c 34 N79-12359 *
US-PATENT-CLASS-73-194 ..... c 14 N70-41994 *
US-PATENT-CLASS-73-194 ..... c 14 N71-23226 *
US-PATENT-CLASS-73-194 ..... c 12 N71-26546 *
US-PATENT-CLASS-73-195 ..... c 35 N75-30503 *
US-PATENT-CLASS-73-198 ..... c 14 N69-24257 * #
US-PATENT-CLASS-73-198 ..... c 14 N72-17327 *
US-PATENT-CLASS-73-1 ..... c 10 N71-13545 *
US-PATENT-CLASS-73-1 ..... c 09 N71-22988 *
US-PATENT-CLASS-73-204.11 .... c 35 N92-21710 *
US-PATENT-CLASS-73-204 ..... c 12 N71-17569 *
US-PATENT-CLASS-73-204 ..... c 35 N76-24524 *
US-PATENT-CLASS-73-204 ..... c 35 N77-20400 *
US-PATENT-CLASS-73-204 ..... c 52 N83-27577 *
US-PATENT-CLASS-73-205L ..... c 02 N80-20224 *
US-PATENT-CLASS-73-212 ..... c 14 N70-36824 *
US-PATENT-CLASS-73-212 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-212 ..... c 35 N76-14429 *
US-PATENT-CLASS-73-212 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-221 ..... c 35 N75-19611 *
US-PATENT-CLASS-73-228 ..... c 34 N77-27345 *
US-PATENT-CLASS-73-23.1 ..... c 06 N69-39936 * #
US-PATENT-CLASS-73-23.1 ..... c 06 N72-17094 *
US-PATENT-CLASS-73-23.1 ..... c 06 N72-25146 *
US-PATENT-CLASS-73-23.1 ..... c 25 N76-18245 *
US-PATENT-CLASS-73-23.1 ..... c 23 N77-17161 *
US-PATENT-CLASS-73-23 ..... c 14 N71-10774 *
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US-PATENT-CLASS-73-23 ..... c 35 N78-19465 *
US-PATENT-CLASS-73-24.01 ..... c 71 N93-13421 *
US-PATENT-CLASS-73-24.05 ..... c 71 N93-13421 *
US-PATENT-CLASS-73-24.06 ..... c 71 N93-13421 *
US-PATENT-CLASS-73-24 ..... c 06 N69-39733 * #
US-PATENT-CLASS-73-28 ..... c 14 N73-27376 * #
US-PATENT-CLASS-73-28 ..... c 14 N73-30395 *
US-PATENT-CLASS-73-28 ..... c 35 N76-18401 *
US-PATENT-CLASS-73-28 ..... c 35 N78-18390 *
US-PATENT-CLASS-73-290-R ..... c 35 N88-29150 *
US-PATENT-CLASS-73-290-V ..... c 35 N89-14407 *
US-PATENT-CLASS-73-290B ..... c 14 N72-11363 *
US-PATENT-CLASS-73-290 ..... c 14 N71-10500 *
US-PATENT-CLASS-73-290 ..... c 14 N71-21007 *
US-PATENT-CLASS-73-295 ..... c 23 N71-17802 *
US-PATENT-CLASS-73-295 ..... c 31 N76-14284 *
US-PATENT-CLASS-73-29 ..... c 14 N71-17701 *
US-PATENT-CLASS-73-29 ..... c 14 N71-20741 *
US-PATENT-CLASS-73-301 ..... c 12 N71-26387 *
US-PATENT-CLASS-73-304-R ..... c 35 N88-29150 *
US-PATENT-CLASS-73-304C ..... c 14 N71-29134 *
US-PATENT-CLASS-73-304 ..... c 14 N72-22442 *
US-PATENT-CLASS-73-30 ..... c 14 N70-41681 *
US-PATENT-CLASS-73-32R ..... c 76 N75-12810 *
US-PATENT-CLASS-73-32R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-32 ..... c 14 N70-41330 *
US-PATENT-CLASS-73-336.5 ..... c 35 N78-25391 *
US-PATENT-CLASS-73-336.5 ..... c 35 N85-29212 *
US-PATENT-CLASS-73-336.5 ..... c 35 N87-22953 *
US-PATENT-CLASS-73-339 ..... c 33 N73-27796 *
US-PATENT-CLASS-73-341 ..... c 14 N71-15598 *
US-PATENT-CLASS-73-341 ..... c 44 N82-16474 *
US-PATENT-CLASS-73-343R ..... c 52 N77-10780 *
US-PATENT-CLASS-73-343R ..... c 35 N80-18357 *
US-PATENT-CLASS-73-343 ..... c 33 N71-16356 *
US-PATENT-CLASS-73-343 ..... c 11 N71-21475 *
US-PATENT-CLASS-73-355R ..... c 14 N72-24477 *
US-PATENT-CLASS-73-355R ..... c 35 N80-18359 *
US-PATENT-CLASS-73-355 ..... c 14 N71-27323 *
US-PATENT-CLASS-73-355 ..... c 14 N72-28437 *
US-PATENT-CLASS-73-356 ..... c 35 N75-25122 *
US-PATENT-CLASS-73-35 ..... c 33 N72-27959 *
US-PATENT-CLASS-73-361 ..... c 35 N81-26431 *
US-PATENT-CLASS-73-362AR .... c 35 N77-27368 *
US-PATENT-CLASS-73-37.5 ..... c 35 N86-32698 *
US-PATENT-CLASS-73-379 ..... c 05 N73-27941 *
US-PATENT-CLASS-73-379 ..... c 05 N73-30078 *
US-PATENT-CLASS-73-379 ..... c 35 N75-15932 *
US-PATENT-CLASS-73-379 ..... c 39 N83-20280 *
US-PATENT-CLASS-73-382 ..... c 10 N71-13537 *
US-PATENT-CLASS-73-382 ..... c 14 N71-17587 *
US-PATENT-CLASS-73-384 ..... c 15 N70-37925 *
US-PATENT-CLASS-73-388 ..... c 35 N74-32878 *
US-PATENT-CLASS-73-389 ..... c 12 N71-24692 *
US-PATENT-CLASS-73-38 ..... c 18 N71-24934 *
US-PATENT-CLASS-73-398AR .... c 52 N74-27566 *
US-PATENT-CLASS-73-398AR .... c 52 N76-29896 *
US-PATENT-CLASS-73-398C ..... c 14 N72-22438 *
US-PATENT-CLASS-73-398C ..... c 33 N76-21390 *
US-PATENT-CLASS-73-398 ..... c 14 N70-34816 *
US-PATENT-CLASS-73-398 ..... c 14 N71-21072 *
US-PATENT-CLASS-73-398 ..... c 09 N71-24597 *
US-PATENT-CLASS-73-398 ..... c 14 N73-30394 *
US-PATENT-CLASS-73-399 ..... c 37 N76-18454 *
US-PATENT-CLASS-73-3 ..... c 34 N74-27730 *
US-PATENT-CLASS-73-3 ..... c 34 N86-12547 *
US-PATENT-CLASS-73-4R ..... c 35 N74-13132 *
US-PATENT-CLASS-73-4R ..... c 35 N79-14347 *
US-PATENT-CLASS-73-4R ..... c 35 N80-18358 *
US-PATENT-CLASS-73-4V ..... c 35 N74-15092 *
US-PATENT-CLASS-73-40.5A ..... c 35 N85-21597 *
US-PATENT-CLASS-73-40.5 ..... c 14 N71-10779 *
US-PATENT-CLASS-73-40.7 ..... c 15 N71-24910 *
US-PATENT-CLASS-73-40.7 ..... c 14 N71-28992 *
US-PATENT-CLASS-73-40.7 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-40.7 ..... c 35 N85-29213 *
US-PATENT-CLASS-73-400 ..... c 14 N71-23093 *
US-PATENT-CLASS-73-400 ..... c 14 N71-24232 *
US-PATENT-CLASS-73-400 ..... c 35 N79-33450 *
US-PATENT-CLASS-73-401 ..... c 14 N70-34820 *
US-PATENT-CLASS-73-40 ..... c 35 N75-15931 *
US-PATENT-CLASS-73-40 ..... c 35 N80-18358 *
US-PATENT-CLASS-73-419 ..... c 14 N71-22752 *
US-PATENT-CLASS-73-420 ..... c 35 N74-13132 *
US-PATENT-CLASS-73-421.5R ... c 13 N72-25323 *
US-PATENT-CLASS-73-421.5R ... c 14 N73-30395 *
US-PATENT-CLASS-73-421.5R ... c 52 N74-20728 *
US-PATENT-CLASS-73-421.5R ... c 35 N76-18401 *
US-PATENT-CLASS-73-421.5R ... c 35 N77-32456 *
US-PATENT-CLASS-73-421.5 ..... c 14 N73-12444 *
US-PATENT-CLASS-73-421R ..... c 54 N76-14804 *
US-PATENT-CLASS-73-422GC .... c 13 N72-25323 *
US-PATENT-CLASS-73-422TC .... c 13 N72-25323 *
US-PATENT-CLASS-73-422 ..... c 14 N71-20435 *
US-PATENT-CLASS-73-425.2 ..... c 91 N76-30131 *
US-PATENT-CLASS-73-425.4R ... c 35 N78-27384 *
US-PATENT-CLASS-73-425.6 ..... c 15 N72-21465 *
US-PATENT-CLASS-73-432.1 ..... c 34 N90-19534 *
US-PATENT-CLASS-73-432.1 ..... c 34 N91-31596 *
US-PATENT-CLASS-73-432PS .... c 76 N75-12810 *
US-PATENT-CLASS-73-432PS .... c 35 N75-33367 *
US-PATENT-CLASS-73-432PS .... c 35 N78-18390 *
US-PATENT-CLASS-73-432R ..... c 33 N73-27796 *
US-PATENT-CLASS-73-432R ..... c 14 N73-28487 *
US-PATENT-CLASS-73-432R ..... c 91 N76-30131 *
US-PATENT-CLASS-73-432R ..... c 35 N77-19385 *
US-PATENT-CLASS-73-432R ..... c 35 N78-18390 *
US-PATENT-CLASS-73-432R ..... c 15 N84-16231 *
US-PATENT-CLASS-73-432SD .... c 11 N72-27262 *
US-PATENT-CLASS-73-432SD .... c 11 N73-20267 *
US-PATENT-CLASS-73-432SD .... c 35 N77-18417 *
US-PATENT-CLASS-73-432T ..... c 74 N84-11921 *
US-PATENT-CLASS-73-432 ..... c 11 N70-34786 *
US-PATENT-CLASS-73-432 ..... c 11 N70-38675 *
US-PATENT-CLASS-73-432 ..... c 05 N70-42000 *
US-PATENT-CLASS-73-432 ..... c 31 N71-16221 *
US-PATENT-CLASS-73-432 ..... c 27 N71-16223 *
US-PATENT-CLASS-73-432 ..... c 30 N71-17788 *
US-PATENT-CLASS-73-432 ..... c 14 N71-23227 *
US-PATENT-CLASS-73-432 ..... c 10 N71-26339 *
US-PATENT-CLASS-73-432 ..... c 11 N71-28629 *
US-PATENT-CLASS-73-432 ..... c 14 N71-30026 *
US-PATENT-CLASS-73-432 ..... c 35 N74-21062 *
US-PATENT-CLASS-73-45.5 ..... c 12 N71-17573 *
US-PATENT-CLASS-73-456 ..... c 35 N78-24515 *
US-PATENT-CLASS-73-462 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-468 ..... c 37 N84-28082 *
US-PATENT-CLASS-73-46 ..... c 35 N75-19612 *
US-PATENT-CLASS-73-473 ..... c 35 N87-14670 *

US-PATENT-CLASS-73-477 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-49.2 ..... c 32 N71-24285 *
US-PATENT-CLASS-73-49.2 ..... c 35 N75-15931 *
US-PATENT-CLASS-73-49.2 ..... c 35 N75-19612 *
US-PATENT-CLASS-73-49.3 ..... c 14 N71-26672 *
US-PATENT-CLASS-73-49.8 ..... c 14 N69-27503 * #
US-PATENT-CLASS-73-49.8 ..... c 15 N71-29132 *
US-PATENT-CLASS-73-49.8 ..... c 14 N91-21175 *
US-PATENT-CLASS-73-490 ..... c 04 N81-21047 *
US-PATENT-CLASS-73-492 ..... c 14 N72-25411 *
US-PATENT-CLASS-73-493 ..... c 17 N76-29347 *
US-PATENT-CLASS-73-497 ..... c 14 N71-30265 *
US-PATENT-CLASS-73-497 ..... c 35 N74-15094 *
US-PATENT-CLASS-73-4 ..... c 14 N71-18481 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23036 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23755 *
US-PATENT-CLASS-73-4 ..... c 14 N73-30390 *
US-PATENT-CLASS-73-502 ..... c 35 N86-32695 * #
US-PATENT-CLASS-73-504 ..... c 04 N81-21047 *
US-PATENT-CLASS-73-505 ..... c 23 N71-16098 *
US-PATENT-CLASS-73-505 ..... c 12 N75-24774 *
US-PATENT-CLASS-73-505 ..... c 71 N78-10837 *
US-PATENT-CLASS-73-505 ..... c 71 N79-20827 *
US-PATENT-CLASS-73-505 ..... c 71 N81-15767 *
US-PATENT-CLASS-73-505 ..... c 71 N83-32515 *
US-PATENT-CLASS-73-505 ..... c 71 N83-32516 *
US-PATENT-CLASS-73-505 ..... c 71 N83-36846 *
US-PATENT-CLASS-73-505 ..... c 71 N84-23233 *
US-PATENT-CLASS-73-505 ..... c 71 N85-22105 *
US-PATENT-CLASS-73-505 ..... c 71 N85-29693 *
US-PATENT-CLASS-73-505 ..... c 35 N86-20752 *
US-PATENT-CLASS-73-505 ..... c 26 N86-32551 *
US-PATENT-CLASS-73-505 ..... c 71 N88-24241 *
US-PATENT-CLASS-73-505 ..... c 71 N89-13236 *
US-PATENT-CLASS-73-505 ..... c 35 N89-14422 *
US-PATENT-CLASS-73-505 ..... c 71 N90-12289 *
US-PATENT-CLASS-73-505 ..... c 71 N91-14807 *
US-PATENT-CLASS-73-510 ..... c 18 N81-29152 *
US-PATENT-CLASS-73-515 ..... c 14 N72-25410 *
US-PATENT-CLASS-73-517B ..... c 35 N74-15094 *
US-PATENT-CLASS-73-517R ..... c 17 N76-29347 *
US-PATENT-CLASS-73-517 ..... c 11 N70-38196 *
US-PATENT-CLASS-73-517 ..... c 14 N70-41682 *
US-PATENT-CLASS-73-517 ..... c 14 N71-15969 *
US-PATENT-CLASS-73-521 ..... c 14 N72-25410 *
US-PATENT-CLASS-73-521 ..... c 35 N86-32695 * #
US-PATENT-CLASS-73-557 ..... c 35 N75-19614 *
US-PATENT-CLASS-73-557 ..... c 07 N76-27232 *
US-PATENT-CLASS-73-56 ..... c 35 N80-18357 *
US-PATENT-CLASS-73-571 ..... c 71 N90-12289 *
US-PATENT-CLASS-73-571 ..... c 33 N92-33021 *
US-PATENT-CLASS-73-579 ..... c 39 N78-15512 *
US-PATENT-CLASS-73-579 ..... c 35 N79-10390 *
US-PATENT-CLASS-73-579 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-579 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-579 ..... c 39 N93-13420 *
US-PATENT-CLASS-73-57 ..... c 14 N71-17584 *
US-PATENT-CLASS-73-57 ..... c 14 N73-14429 *
US-PATENT-CLASS-73-582 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-583 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-587 ..... c 35 N88-23966 *
US-PATENT-CLASS-73-588 ..... c 37 N84-33807 *
US-PATENT-CLASS-73-588 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-589 ..... c 35 N79-10390 *
US-PATENT-CLASS-73-589 ..... c 35 N84-22933 *
US-PATENT-CLASS-73-589 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-594 ..... c 35 N84-22933 *
US-PATENT-CLASS-73-597 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-597 ..... c 52 N83-27578 *
US-PATENT-CLASS-73-597 ..... c 32 N87-14559 *
US-PATENT-CLASS-73-598 ..... c 26 N93-14705 *
US-PATENT-CLASS-73-599 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-599 ..... c 71 N87-21653 *
US-PATENT-CLASS-73-601 ..... c 39 N92-28757 *
US-PATENT-CLASS-73-603 ..... c 38 N78-32447 *
US-PATENT-CLASS-73-60 ..... c 14 N73-14429 *
US-PATENT-CLASS-73-61.1C ..... c 23 N77-17161 *
US-PATENT-CLASS-73-61R ..... c 35 N78-27384 *
US-PATENT-CLASS-73-615 ..... c 32 N87-14559 *
US-PATENT-CLASS-73-61 ..... c 14 N71-26199 *
US-PATENT-CLASS-73-620 ..... c 35 N84-22928 *
US-PATENT-CLASS-73-626 ..... c 52 N79-26771 *
US-PATENT-CLASS-73-629 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-630 ..... c 39 N78-15512 *
US-PATENT-CLASS-73-631 ..... c 71 N91-27914 *
US-PATENT-CLASS-73-632 ..... c 38 N79-14398 *
US-PATENT-CLASS-73-633 ..... c 52 N79-14751 *
US-PATENT-CLASS-73-633 ..... c 35 N84-22928 *
US-PATENT-CLASS-73-64.4 ..... c 34 N83-31993 *
US-PATENT-CLASS-73-641 ..... c 38 N79-14398 *
US-PATENT-CLASS-73-644 ..... c 38 N79-14398 *
US-PATENT-CLASS-73-644 ..... c 52 N79-14751 *
US-PATENT-CLASS-73-646 ..... c 71 N78-14867 *
US-PATENT-CLASS-73-646 ..... c 35 N84-12445 *
US-PATENT-CLASS-73-647 ..... c 32 N79-24203 *
US-PATENT-CLASS-73-655 ..... c 35 N80-14371 *
US-PATENT-CLASS-73-657 ..... c 35 N85-30282 *
US-PATENT-CLASS-73-658 ..... c 35 N84-12445 *
US-PATENT-CLASS-73-658 ..... c 37 N91-14607 *
US-PATENT-CLASS-73-65 ..... c 14 N71-22992 *
US-PATENT-CLASS-73-661 ..... c 35 N80-14371 *
US-PATENT-CLASS-73-663 ..... c 14 N91-21176 *
US-PATENT-CLASS-73-668 ..... c 39 N93-13420 *
US-PATENT-CLASS-73-67.1 ..... c 35 N75-12271 *
US-PATENT-CLASS-73-67.2 ..... c 11 N69-21540 * #
US-PATENT-CLASS-73-67.2 ..... c 15 N71-18132 *
US-PATENT-CLASS-73-67.2 ..... c 14 N72-22440 *
US-PATENT-CLASS-73-67.2 ..... c 35 N78-17358 *
US-PATENT-CLASS-73-67.3 ..... c 32 N73-26910 *
US-PATENT-CLASS-73-67.5R ..... c 38 N74-15395 *
US-PATENT-CLASS-73-67.7 ..... c 39 N77-28511 *
US-PATENT-CLASS-73-67.8S ..... c 35 N74-10415 *
US-PATENT-CLASS-73-67.8S ..... c 38 N74-15130 *
US-PATENT-CLASS-73-67.9 ..... c 52 N74-20726 *
US-PATENT-CLASS-73-683.31 .... c 35 N81-29407 *
US-PATENT-CLASS-73-684.52 .... c 35 N81-29407 *
US-PATENT-CLASS-73-69 ..... c 71 N74-31148 *
US-PATENT-CLASS-73-70.2 ..... c 14 N71-10616 *
US-PATENT-CLASS-73-705 ..... c 36 N85-21639 *
US-PATENT-CLASS-73-705 ..... c 74 N92-33017 *
US-PATENT-CLASS-73-708 ..... c 34 N85-21568 *
US-PATENT-CLASS-73-708 ..... c 35 N92-21586 *
US-PATENT-CLASS-73-708 ..... c 35 N92-29097 *
US-PATENT-CLASS-73-71.2 ..... c 14 N70-34794 *
US-PATENT-CLASS-73-71.3 ..... c 35 N74-15146 *
US-PATENT-CLASS-73-71.4 ..... c 32 N71-16428 *
US-PATENT-CLASS-73-71.4 ..... c 32 N71-26681 *
US-PATENT-CLASS-73-71.5R ..... c 71 N74-31148 *
US-PATENT-CLASS-73-71.5U ..... c 38 N74-15395 *
US-PATENT-CLASS-73-71.6 ..... c 14 N71-27185 *
US-PATENT-CLASS-73-71.6 ..... c 14 N72-27412 *
US-PATENT-CLASS-73-71.6 ..... c 14 N73-13416 *
US-PATENT-CLASS-73-71.6 ..... c 14 N73-19421 *
US-PATENT-CLASS-73-71.6 ..... c 35 N77-18417 *
US-PATENT-CLASS-73-714 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-714 ..... c 34 N79-24285 *
US-PATENT-CLASS-73-714 ..... c 35 N84-14491 *
US-PATENT-CLASS-73-721 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-721 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-721 ..... c 35 N92-29097 *
US-PATENT-CLASS-73-724 ..... c 32 N79-24203 *
US-PATENT-CLASS-73-724 ..... c 52 N80-18691 *
US-PATENT-CLASS-73-724 ..... c 33 N82-26572 *
US-PATENT-CLASS-73-727 ..... c 35 N92-29097 *
US-PATENT-CLASS-73-753 ..... c 35 N85-21597 *
US-PATENT-CLASS-73-756 ..... c 35 N78-24515 *
US-PATENT-CLASS-73-756 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-756 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-756 ..... c 35 N87-28884 *
US-PATENT-CLASS-73-756 ..... c 35 N92-29097 *
US-PATENT-CLASS-73-75 ..... c 35 N85-34373 *
US-PATENT-CLASS-73-761 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-761 ..... c 39 N92-34174 *
US-PATENT-CLASS-73-76 ..... c 06 N72-17095 *
US-PATENT-CLASS-73-770 ..... c 39 N79-22537 *
US-PATENT-CLASS-73-781 ..... c 52 N80-27072 *
US-PATENT-CLASS-73-794 ..... c 35 N88-23967 *
US-PATENT-CLASS-73-794 ..... c 24 N91-14430 *
US-PATENT-CLASS-73-799 ..... c 35 N90-23712 *
US-PATENT-CLASS-73-79 ..... c 14 N71-26161 *
US-PATENT-CLASS-73-7 ..... c 25 N86-19413 *
US-PATENT-CLASS-73-801 ..... c 35 N88-23966 *
US-PATENT-CLASS-73-801 ..... c 39 N92-29155 *
US-PATENT-CLASS-73-801 ..... c 26 N93-14705 *
US-PATENT-CLASS-73-809 ..... c 39 N87-25601 *
US-PATENT-CLASS-73-810 ..... c 39 N79-22537 *
US-PATENT-CLASS-73-810 ..... c 39 N87-25601 *
US-PATENT-CLASS-73-810 ..... c 35 N88-23967 *
US-PATENT-CLASS-73-818 ..... c 35 N83-21312 *
US-PATENT-CLASS-73-818 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-81 ..... c 14 N73-32321 *
US-PATENT-CLASS-73-822 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-826 ..... c 14 N91-27175 *
US-PATENT-CLASS-73-827 ..... c 39 N86-20841 *
US-PATENT-CLASS-73-82 ..... c 43 N79-25443 *
US-PATENT-CLASS-73-82 ..... c 43 N80-14423 *
US-PATENT-CLASS-73-82 ..... c 43 N80-23711 *
US-PATENT-CLASS-73-831 ..... c 35 N85-34375 *
US-PATENT-CLASS-73-831 ..... c 37 N90-20409 *
US-PATENT-CLASS-73-833 ..... c 24 N84-27829 *
US-PATENT-CLASS-73-834 ..... c 37 N88-14361 *
US-PATENT-CLASS-73-845 ..... c 35 N90-23712 *
US-PATENT-CLASS-73-84 ..... c 14 N71-22765 *
US-PATENT-CLASS-73-84 ..... c 14 N73-19420 *
US-PATENT-CLASS-73-84 ..... c 35 N77-27367 *
US-PATENT-CLASS-73-852 ..... c 37 N91-21540 *
US-PATENT-CLASS-73-856 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-856 ..... c 24 N84-27829 *
US-PATENT-CLASS-73-856 ..... c 35 N85-34375 *
US-PATENT-CLASS-73-856 ..... c 09 N87-25334 *
US-PATENT-CLASS-73-85 ..... c 14 N72-33377 *
US-PATENT-CLASS-73-860 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-860 ..... c 37 N90-20409 *
US-PATENT-CLASS-73-861.05 .... c 33 N83-31954 *
US-PATENT-CLASS-73-861.05 .... c 02 N92-34172 *
US-PATENT-CLASS-73-861.07 .... c 34 N86-12547 *
US-PATENT-CLASS-73-861.58 .... c 35 N86-25752 *
US-PATENT-CLASS-73-861.65 .... c 02 N80-28300 *
US-PATENT-CLASS-73-861.65 .... c 35 N89-14423 *
US-PATENT-CLASS-73-861.66 .... c 02 N80-28300 *
US-PATENT-CLASS-73-861.71 .... c 47 N84-28292 *
US-PATENT-CLASS-73-861 ..... c 34 N81-26402 *
US-PATENT-CLASS-73-862.01 .... c 35 N86-19581 *
US-PATENT-CLASS-73-862.04 .... c 35 N86-32696 *
US-PATENT-CLASS-73-862.04 .... c 35 N92-10185 *
US-PATENT-CLASS-73-862.08 .... c 54 N82-26987 *
US-PATENT-CLASS-73-862.33 .... c 35 N91-17350 *
US-PATENT-CLASS-73-862.36 .... c 35 N91-17350 *
US-PATENT-CLASS-73-862.54 .... c 37 N83-36482 *
US-PATENT-CLASS-73-862.54 .... c 35 N85-20294 *
US-PATENT-CLASS-73-862.54 .... c 35 N86-19581 *
US-PATENT-CLASS-73-862.59 .... c 39 N92-34174 *
US-PATENT-CLASS-73-862.61 .... c 35 N86-32696 *
US-PATENT-CLASS-73-862.61 .... c 35 N90-17117 *
US-PATENT-CLASS-73-862.65 .... c 35 N84-28015 *
US-PATENT-CLASS-73-862.65 .... c 35 N92-10185 *
US-PATENT-CLASS-73-863.11 .... c 35 N83-29650 *
US-PATENT-CLASS-73-863.11 .... c 37 N85-29286 *
US-PATENT-CLASS-73-863.21 .... c 35 N86-26595 *
US-PATENT-CLASS-73-863.22 .... c 51 N91-31755 *
US-PATENT-CLASS-73-863.23 .... c 34 N92-16241 *
US-PATENT-CLASS-73-863.31 .... c 45 N83-25217 *
US-PATENT-CLASS-73-863.31 .... c 35 N86-26595 *
US-PATENT-CLASS-73-863.41 .... c 51 N91-31755 *
US-PATENT-CLASS-73-863.72 .... c 35 N86-26595 *
US-PATENT-CLASS-73-863.83 .... c 45 N83-25217 *
US-PATENT-CLASS-73-863.85 .... c 51 N91-31755 *
US-PATENT-CLASS-73-863.86 .... c 35 N85-29213 *
US-PATENT-CLASS-73-863.86 .... c 51 N91-31755 *
US-PATENT-CLASS-73-864.34 .... c 35 N86-26595 *
US-PATENT-CLASS-73-864.41 .... c 35 N84-28018 *
US-PATENT-CLASS-73-864.52 .... c 35 N85-29213 *
US-PATENT-CLASS-73-864.63 .... c 45 N83-25217 *
US-PATENT-CLASS-73-864.81 .... c 37 N85-29286 *
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US-PATENT-CLASS-73-865.6 ..... c 14 N91-21176 *
US-PATENT-CLASS-73-866.4 ..... c 14 N91-21176 *
US-PATENT-CLASS-73-86 ..... c 14 N69-39975 * #
US-PATENT-CLASS-73-86 ..... c 33 N71-21586 *
US-PATENT-CLASS-73-86 ..... c 33 N73-27796 *
US-PATENT-CLASS-73-86 ..... c 34 N74-15652 *
US-PATENT-CLASS-73-86 ..... c 20 N93-18856 *
US-PATENT-CLASS-73-88.5R ..... c 15 N72-17452 *
US-PATENT-CLASS-73-88.5R ..... c 32 N73-26910 *
US-PATENT-CLASS-73-88.5R ..... c 52 N74-27864 *
US-PATENT-CLASS-73-88.5R ..... c 35 N76-14430 *
US-PATENT-CLASS-73-88.5SD ... c 33 N76-19338 *
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34705 *
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34799 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-17656 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-21091 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-23087 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-24233 *
US-PATENT-CLASS-73-88.5 ..... c 09 N72-22200 *
US-PATENT-CLASS-73-88.5 ..... c 33 N75-31329 *
US-PATENT-CLASS-73-88.5 ..... c 38 N76-28563 *
US-PATENT-CLASS-73-88A ..... c 32 N73-20740 *
US-PATENT-CLASS-73-88F ..... c 39 N78-15512 *
US-PATENT-CLASS-73-88R ..... c 35 N74-13129 *
US-PATENT-CLASS-73-88R ..... c 35 N77-22449 *
US-PATENT-CLASS-73-88R ..... c 39 N77-28511 *
US-PATENT-CLASS-73-88 ..... c 32 N71-17645 *
US-PATENT-CLASS-73-90 ..... c 32 N70-42003 *
US-PATENT-CLASS-73-90 ..... c 32 N71-25360 *
US-PATENT-CLASS-73-90 ..... c 14 N73-20476 *
US-PATENT-CLASS-73-91 ..... c 14 N73-20476 *
US-PATENT-CLASS-73-91 ..... c 32 N73-26910 *
US-PATENT-CLASS-73-91 ..... c 09 N74-19528 *
US-PATENT-CLASS-73-91 ..... c 39 N78-10493 *
US-PATENT-CLASS-73-94 ..... c 14 N73-32323 *
US-PATENT-CLASS-73-95 ..... c 15 N71-24834 *
US-PATENT-CLASS-73-95 ..... c 14 N72-11364 *
US-PATENT-CLASS-73-95 ..... c 35 N76-18400 *
US-PATENT-CLASS-73-95 ..... c 35 N77-22450 *
US-PATENT-CLASS-73-95 ..... c 31 N79-11246 *
US-PATENT-CLASS-73-97 ..... c 14 N71-15600 *
US-PATENT-CLASS-73-99 ..... c 14 N71-10781 *
US-PATENT-CLASS-73-9 ..... c 14 N71-22995 *
US-PATENT-CLASS-73-9 ..... c 35 N76-31489 *
US-PATENT-CLASS-73-9 ..... c 15 N84-16231 *
US-PATENT-CLASS-73-9 ..... c 02 N93-18275 *
US-PATENT-CLASS-74-100R ..... c 37 N78-31426 *
US-PATENT-CLASS-74-100 ..... c 15 N71-24045 *
US-PATENT-CLASS-74-105 ..... c 09 N72-22195 *
US-PATENT-CLASS-74-110 ..... c 44 N83-14693 *
US-PATENT-CLASS-74-126 ..... c 15 N71-21529 *
US-PATENT-CLASS-74-18.1 ..... c 37 N82-24493 *
US-PATENT-CLASS-74-18.2 ..... c 11 N71-27036 *

US-PATENT-CLASS-74-18.2 ..... c 37 N82-24493 *
US-PATENT-CLASS-74-217R ..... c 37 N74-23070 *
US-PATENT-CLASS-74-25 ..... c 37 N92-33031 *
US-PATENT-CLASS-74-2 ..... c 15 N71-24600 *
US-PATENT-CLASS-74-2 ..... c 31 N73-14855 *
US-PATENT-CLASS-74-384 ..... c 37 N76-15457 *
US-PATENT-CLASS-74-385 ..... c 07 N78-17056 *
US-PATENT-CLASS-74-409 ..... c 15 N71-21744 *
US-PATENT-CLASS-74-417 ..... c 07 N78-17056 *
US-PATENT-CLASS-74-417 ..... c 37 N81-14318 *
US-PATENT-CLASS-74-417 ..... c 37 N81-17432 *
US-PATENT-CLASS-74-424.8-R .. c 35 N87-21304 *
US-PATENT-CLASS-74-424.8B ... c 37 N85-20338 *
US-PATENT-CLASS-74-424.8VA . c 37 N75-15050 *
US-PATENT-CLASS-74-424.8VA . c 37 N85-20338 *
US-PATENT-CLASS-74-424.8 ..... c 15 N71-26635 *
US-PATENT-CLASS-74-425 ..... c 37 N80-32716 *
US-PATENT-CLASS-74-436 ..... c 37 N75-13266 *
US-PATENT-CLASS-74-437 ..... c 37 N92-33031 *
US-PATENT-CLASS-74-441 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-458 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-468 ..... c 15 N71-24984 *
US-PATENT-CLASS-74-468 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-469 ..... c 15 N72-21463 *
US-PATENT-CLASS-74-469 ..... c 15 N72-28495 *
US-PATENT-CLASS-74-471XY .... c 54 N75-27760 *
US-PATENT-CLASS-74-471XY .... c 33 N92-29153 *
US-PATENT-CLASS-74-471 ..... c 05 N70-41581 *
US-PATENT-CLASS-74-471 ..... c 03 N70-42073 *
US-PATENT-CLASS-74-471 ..... c 15 N71-20740 *
US-PATENT-CLASS-74-479 ..... c 08 N82-24205 *
US-PATENT-CLASS-74-479 ..... c 37 N91-14616 *
US-PATENT-CLASS-74-479 ..... c 37 N92-33634 *
US-PATENT-CLASS-74-480R ..... c 05 N75-12930 *
US-PATENT-CLASS-74-480R ..... c 08 N82-24205 *
US-PATENT-CLASS-74-5.12 ..... c 31 N71-26537 *
US-PATENT-CLASS-74-5.22 ..... c 21 N73-13644 *
US-PATENT-CLASS-74-5.34 ..... c 04 N76-26175 *
US-PATENT-CLASS-74-5.34 ..... c 06 N83-33882 *
US-PATENT-CLASS-74-5.47 ..... c 21 N71-23289 *
US-PATENT-CLASS-74-5.5 ..... c 35 N74-28097 *
US-PATENT-CLASS-74-5.5 ..... c 37 N84-28082 *
US-PATENT-CLASS-74-5.6D ..... c 33 N85-29142 *
US-PATENT-CLASS-74-5.6 ..... c 35 N74-15094 *
US-PATENT-CLASS-74-5.7 ..... c 35 N74-18323 *
US-PATENT-CLASS-74-5.7 ..... c 15 N76-14158 *
US-PATENT-CLASS-74-5F ..... c 15 N73-12488 *
US-PATENT-CLASS-74-501R ..... c 15 N72-22485 *
US-PATENT-CLASS-74-515E ..... c 54 N78-17676 *
US-PATENT-CLASS-74-519 ..... c 03 N70-41954 *
US-PATENT-CLASS-74-519 ..... c 05 N81-19087 *
US-PATENT-CLASS-74-572 ..... c 07 N78-33101 *
US-PATENT-CLASS-74-572 ..... c 37 N79-10422 *
US-PATENT-CLASS-74-572 ..... c 44 N79-14527 *
US-PATENT-CLASS-74-572 ..... c 24 N81-29163 *
US-PATENT-CLASS-74-572 ..... c 35 N89-15379 *
US-PATENT-CLASS-74-573R ..... c 37 N84-28082 *
US-PATENT-CLASS-74-586 ..... c 37 N79-14382 *
US-PATENT-CLASS-74-58 ..... c 35 N84-22928 *
US-PATENT-CLASS-74-594.6 ..... c 37 N74-18127 *
US-PATENT-CLASS-74-594.7 ..... c 37 N74-18127 *
US-PATENT-CLASS-74-61 ..... c 35 N92-33010 *
US-PATENT-CLASS-74-63 ..... c 15 N71-17692 *
US-PATENT-CLASS-74-661 ..... c 37 N80-32716 *
US-PATENT-CLASS-74-665B ..... c 37 N76-15457 *
US-PATENT-CLASS-74-665C ..... c 37 N80-32716 *
US-PATENT-CLASS-74-665G ..... c 37 N91-14616 *
US-PATENT-CLASS-74-674 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-675 ..... c 37 N74-27901 *
US-PATENT-CLASS-74-705 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-710 ..... c 37 N74-27901 *
US-PATENT-CLASS-74-753 ..... c 37 N84-28084 *
US-PATENT-CLASS-74-758 ..... c 37 N84-28084 *
US-PATENT-CLASS-74-764 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-800 ..... c 37 N78-17385 *
US-PATENT-CLASS-74-812 ..... c 37 N84-28084 *
US-PATENT-CLASS-74-81 ..... c 37 N78-16369 *
US-PATENT-CLASS-74-820 ..... c 37 N75-13266 *
US-PATENT-CLASS-74-83 ..... c 37 N78-16369 *
US-PATENT-CLASS-74-87 ..... c 35 N92-33010 *
US-PATENT-CLASS-74-89.15 ..... c 15 N71-26635 *
US-PATENT-CLASS-74-89.15 ..... c 15 N72-21462 *
US-PATENT-CLASS-74-89.15 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-89.18 ..... c 15 N71-23809 *
US-PATENT-CLASS-74-89 ..... c 37 N81-33483 *
US-PATENT-CLASS-74-96 ..... c 37 N77-22482 *
US-PATENT-CLASS-75-.5B ..... c 17 N72-22530 *
US-PATENT-CLASS-75-DIG.1 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-DIG.1 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-0.5BB ..... c 15 N72-25448 *
US-PATENT-CLASS-75-122.7 ..... c 37 N77-19458 *
US-PATENT-CLASS-75-124 ..... c 26 N78-18182 *
US-PATENT-CLASS-75-124 ..... c 26 N80-32484 *
US-PATENT-CLASS-75-126D ..... c 26 N78-18182 *
US-PATENT-CLASS-75-126F ..... c 26 N78-18182 *
US-PATENT-CLASS-75-128G ..... c 26 N78-18182 *
US-PATENT-CLASS-75-128T ..... c 26 N78-18182 *
US-PATENT-CLASS-75-134D ..... c 76 N79-16678 *
US-PATENT-CLASS-75-135 ..... c 18 N73-32437 *
US-PATENT-CLASS-75-135 ..... c 24 N77-27187 *
US-PATENT-CLASS-75-135 ..... c 26 N80-23419 *
US-PATENT-CLASS-75-138 ..... c 26 N80-23419 *
US-PATENT-CLASS-75-139 ..... c 24 N77-27187 *
US-PATENT-CLASS-75-142 ..... c 17 N71-20743 *
US-PATENT-CLASS-75-170 ..... c 17 N71-15644 *
US-PATENT-CLASS-75-170 ..... c 17 N71-16025 *
US-PATENT-CLASS-75-170 ..... c 17 N71-23248 *
US-PATENT-CLASS-75-170 ..... c 17 N72-22535 *
US-PATENT-CLASS-75-170 ..... c 37 N77-19458 *
US-PATENT-CLASS-75-170 ..... c 26 N77-20201 *
US-PATENT-CLASS-75-170 ..... c 26 N77-32279 *
US-PATENT-CLASS-75-170 ..... c 26 N77-32280 *
US-PATENT-CLASS-75-170 ..... c 26 N78-18183 *
US-PATENT-CLASS-75-171 ..... c 17 N70-33283 *
US-PATENT-CLASS-75-171 ..... c 17 N70-36616 *
US-PATENT-CLASS-75-171 ..... c 17 N71-16026 *
US-PATENT-CLASS-75-171 ..... c 17 N73-32415 *
US-PATENT-CLASS-75-172 ..... c 17 N71-23365 *
US-PATENT-CLASS-75-173 ..... c 26 N75-27126 *
US-PATENT-CLASS-75-173 ..... c 26 N75-27127 *
US-PATENT-CLASS-75-178R ..... c 04 N76-20114 *
US-PATENT-CLASS-75-178R ..... c 26 N80-23419 *
US-PATENT-CLASS-75-20F ..... c 15 N72-11387 *
US-PATENT-CLASS-75-200 ..... c 26 N74-10521 *
US-PATENT-CLASS-75-200 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-200 ..... c 24 N75-13032 *
US-PATENT-CLASS-75-200 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-200 ..... c 24 N80-33482 *
US-PATENT-CLASS-75-202 ..... c 17 N71-15468 *
US-PATENT-CLASS-75-203 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-204 ..... c 18 N71-22894 *
US-PATENT-CLASS-75-205 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-206 ..... c 15 N72-25448 *
US-PATENT-CLASS-75-206 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-208R ..... c 37 N75-26371 *
US-PATENT-CLASS-75-208 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-211 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-212 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-212 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-213 ..... c 15 N72-25448 *
US-PATENT-CLASS-75-213 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-214 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-214 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-222 ..... c 28 N70-38197 *
US-PATENT-CLASS-75-222 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-222 ..... c 24 N80-33482 *
US-PATENT-CLASS-75-225 ..... c 34 N76-27515 *
US-PATENT-CLASS-75-226 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-226 ..... c 26 N74-10521 *
US-PATENT-CLASS-75-226 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-226 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-228 ..... c 24 N90-23493 *
US-PATENT-CLASS-75-229 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-239 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-241 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-25 ..... c 28 N81-15119 *
US-PATENT-CLASS-75-331 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-338 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-340 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-342 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-63 ..... c 15 N71-27184 *
US-PATENT-CLASS-75-65R ..... c 24 N77-27187 *
US-PATENT-CLASS-75-66 ..... c 17 N71-26773 *
US-PATENT-CLASS-75-66 ..... c 06 N73-13129 *
US-PATENT-CLASS-75-66 ..... c 17 N73-28573 *
US-PATENT-CLASS-77.5AQ ..... c 27 N81-15104 *
US-PATENT-CLASS-77.5CH ..... c 27 N81-15104 *
US-PATENT-CLASS-78-1 ..... c 15 N70-33330 *
US-PATENT-CLASS-788-704 ..... c 36 N79-18307 *
US-PATENT-CLASS-8-DIG.12 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-DIG.18 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-DIG.9 ..... c 25 N86-25428 *
US-PATENT-CLASS-8-115.5 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-150 ..... c 09 N82-29330 *
US-PATENT-CLASS-8-3 ..... c 51 N77-27677 *
US-PATENT-CLASS-8-94.11 ..... c 51 N77-27677 *
US-PATENT-CLASS-8-94.12 ..... c 18 N71-15545 *
US-PATENT-CLASS-81-119 ..... c 37 N79-14383 *
US-PATENT-CLASS-81-177G ..... c 37 N85-21649 *
US-PATENT-CLASS-81-180B ..... c 37 N79-14383 *
US-PATENT-CLASS-81-3R ..... c 15 N71-29133 *
US-PATENT-CLASS-81-55 ..... c 37 N83-36482 *
US-PATENT-CLASS-81-56 ..... c 37 N76-20480 *
US-PATENT-CLASS-81-57.31 ..... c 37 N76-20480 *
US-PATENT-CLASS-81-57.38 ..... c 15 N73-30457 *
US-PATENT-CLASS-81-57.38 ..... c 37 N83-36482 *
US-PATENT-CLASS-81-63.1 ..... c 15 N71-17805 *
US-PATENT-CLASS-81-9.5R ..... c 37 N79-10419 *
US-PATENT-CLASS-81-90B ..... c 37 N79-14383 *
US-PATENT-CLASS-82-1.2 ..... c 37 N81-14319 *
US-PATENT-CLASS-82-1C ..... c 37 N81-14319 *
US-PATENT-CLASS-82-14 ..... c 15 N71-22722 *
US-PATENT-CLASS-82-24R ..... c 14 N72-16283 *
US-PATENT-CLASS-82-36R ..... c 37 N81-14319 *
US-PATENT-CLASS-82-90 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-152 ..... c 76 N80-18951 *
US-PATENT-CLASS-83-203 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-206 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-277 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-282 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-451 ..... c 37 N77-14478 *
US-PATENT-CLASS-83-452 ..... c 39 N74-13131 *
US-PATENT-CLASS-83-467R ..... c 37 N77-14478 *
US-PATENT-CLASS-83-467 ..... c 15 N71-22798 *
US-PATENT-CLASS-83-522 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-562 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-563 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-588 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-602 ..... c 39 N74-13131 *
US-PATENT-CLASS-83-614 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-649 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-664 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-676 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-820 ..... c 37 N80-29703 *
US-PATENT-CLASS-83-870 ..... c 76 N80-18951 *
US-PATENT-CLASS-83-8 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-917 ..... c 39 N74-13131 *
US-PATENT-CLASS-85-1 ..... c 15 N72-22488 *
US-PATENT-CLASS-85-33 ..... c 15 N71-15922 *
US-PATENT-CLASS-85-33 ..... c 15 N71-21489 *
US-PATENT-CLASS-85-3 ..... c 15 N71-17653 *
US-PATENT-CLASS-85-5B ..... c 15 N72-11385 *
US-PATENT-CLASS-85-7 ..... c 15 N71-23254 *
US-PATENT-CLASS-859R ..... c 27 N81-15104 *
US-PATENT-CLASS-86-1R ..... c 28 N77-10213 *
US-PATENT-CLASS-86-1R ..... c 20 N77-17143 *
US-PATENT-CLASS-86-1 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20.2 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20R ..... c 20 N77-17143 *
US-PATENT-CLASS-88-14 ..... c 14 N70-34298 *
US-PATENT-CLASS-88-14 ..... c 14 N70-40003 *
US-PATENT-CLASS-88-14 ..... c 14 N70-41946 *
US-PATENT-CLASS-88-14 ..... c 14 N70-41955 *
US-PATENT-CLASS-88-14 ..... c 09 N71-22999 *
US-PATENT-CLASS-88-16 ..... c 14 N70-33254 *
US-PATENT-CLASS-88-1 ..... c 21 N70-35427 *
US-PATENT-CLASS-88-1 ..... c 21 N71-22880 *
US-PATENT-CLASS-88-24 ..... c 23 N71-21882 *
US-PATENT-CLASS-89-1.14 ..... c 37 N87-23983 *
US-PATENT-CLASS-89-1.14 ..... c 37 N90-21390 *
US-PATENT-CLASS-89-1.14 ..... c 37 N91-32498 *
US-PATENT-CLASS-89-1.34 ..... c 03 N91-15142 *
US-PATENT-CLASS-89-1.5G ..... c 08 N82-32373 *
US-PATENT-CLASS-89-1.54 ..... c 05 N87-14314 *
US-PATENT-CLASS-89-1.57 ..... c 37 N85-30334 *
US-PATENT-CLASS-89-1.57 ..... c 37 N90-21390 *
US-PATENT-CLASS-89-1.57 ..... c 37 N91-32498 *
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US-PATENT-CLASS-89-1.7 ..... c 11 N70-38202 *
US-PATENT-CLASS-89-1.7 ..... c 30 N70-40353 *
US-PATENT-CLASS-89-1.7 ..... c 03 N71-12258 *
US-PATENT-CLASS-89-1.7 ..... c 03 N71-12259 *
US-PATENT-CLASS-89-1.801 ..... c 20 N76-22296 *
US-PATENT-CLASS-89-1.806 ..... c 15 N71-24043 *
US-PATENT-CLASS-89-1.811 ..... c 15 N72-17455 *
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US-PATENT-CLASS-89-1 ..... c 15 N71-16078 *
US-PATENT-CLASS-89-36.02 ..... c 24 N90-21822 *
US-PATENT-CLASS-89-36.02 ..... c 18 N92-15114 *
US-PATENT-CLASS-89-36.11 ..... c 18 N92-15114 *
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US-PATENT-CLASS-89-8 ..... c 11 N73-32152 *
US-PATENT-CLASS-89-8 ..... c 75 N76-14931 *
US-PATENT-CLASS-89-8 ..... c 75 N76-17951 *
US-PATENT-CLASS-89-8 ..... c 09 N79-21084 *
US-PATENT-CLASS-89-8 ..... c 14 N92-15081 *
US-PATENT-CLASS-9-11A ..... c 02 N73-26006 *
US-PATENT-CLASS-9-11A ..... c 54 N74-14845 *
US-PATENT-CLASS-9-11 ..... c 05 N70-34857 *
US-PATENT-CLASS-9-2A ..... c 02 N73-26006 *
US-PATENT-CLASS-9-312 ..... c 05 N71-22748 *
US-PATENT-CLASS-9-316 ..... c 05 N70-36493 *
US-PATENT-CLASS-9-3 ..... c 02 N73-26006 *
US-PATENT-CLASS-9-8 ..... c 03 N70-36778 *
US-PATENT-CLASS-9-9 ..... c 15 N71-24600 *
US-PATENT-CLASS-90-11 ..... c 15 N71-33518 *
US-PATENT-CLASS-90-12.5 ..... c 37 N74-25968 *
US-PATENT-CLASS-90-12 ..... c 15 N71-22799 *
US-PATENT-CLASS-901-19 ..... c 33 N91-31528 *
US-PATENT-CLASS-901-1 ..... c 18 N88-23828 *
US-PATENT-CLASS-901-1 ..... c 54 N92-29129 *
US-PATENT-CLASS-901-23 ..... c 37 N92-33634 *
US-PATENT-CLASS-901-25 ..... c 37 N86-20789 *
US-PATENT-CLASS-901-28 ..... c 37 N91-17388 *
US-PATENT-CLASS-901-28 ..... c 37 N92-33634 *
US-PATENT-CLASS-901-30 ..... c 37 N91-31656 *

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US-PATENT-CLASS-901-31 ..... c 37 N86-19603 *
US-PATENT-CLASS-901-31 ..... c 37 N86-20789 *
US-PATENT-CLASS-901-33 ..... c 18 N88-23828 *
US-PATENT-CLASS-901-33 ..... c 37 N91-21542 *
US-PATENT-CLASS-901-37 ..... c 37 N91-21542 *
US-PATENT-CLASS-901-38 ..... c 37 N90-20408 *
US-PATENT-CLASS-901-38 ..... c 37 N91-14615 *
US-PATENT-CLASS-901-39 ..... c 37 N90-20408 *
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US-PATENT-CLASS-901-39 ..... c 37 N92-29138 *
US-PATENT-CLASS-901-39 ..... c 37 N93-17625 *
US-PATENT-CLASS-901-40 ..... c 37 N92-33018 *
US-PATENT-CLASS-901-41 ..... c 37 N93-14710 *
US-PATENT-CLASS-901-41 ..... c 37 N93-18286 *
US-PATENT-CLASS-901-41 ..... c 37 N93-18288 *
US-PATENT-CLASS-901-42 ..... c 37 N86-21850 *
US-PATENT-CLASS-901-46 ..... c 37 N92-28727 *
US-PATENT-CLASS-901-47 ..... c 37 N86-21850 *
US-PATENT-CLASS-901-47 ..... c 37 N91-21542 *
US-PATENT-CLASS-901-47 ..... c 63 N92-33019 *
US-PATENT-CLASS-901-50 ..... c 37 N86-19603 *
US-PATENT-CLASS-901-6 ..... c 37 N92-22036 *
US-PATENT-CLASS-901-9 ..... c 37 N91-21544 *
US-PATENT-CLASS-901-9 ..... c 37 N92-33634 *
US-PATENT-CLASS-91-186 ..... c 05 N73-32014 *
US-PATENT-CLASS-91-325 ..... c 37 N81-32510 *
US-PATENT-CLASS-91-341R ..... c 37 N81-32510 *
US-PATENT-CLASS-91-361 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-363A ..... c 15 N73-13466 *
US-PATENT-CLASS-91-390 ..... c 15 N71-27147 *
US-PATENT-CLASS-91-390 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-410 ..... c 37 N81-32510 *
US-PATENT-CLASS-91-448 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-448 ..... c 15 N73-13466 *
US-PATENT-CLASS-91-461 ..... c 15 N71-27147 *
US-PATENT-CLASS-92-103F ..... c 35 N91-21494 *
US-PATENT-CLASS-92-103SD .... c 35 N91-21494 *
US-PATENT-CLASS-92-130R ..... c 37 N81-33483 *
US-PATENT-CLASS-92-176 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-208 ..... c 24 N87-27742 * #
US-PATENT-CLASS-92-212 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-212 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-213 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-214 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-222 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-222 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-224 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-248 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-37 ..... c 37 N82-24493 *
US-PATENT-CLASS-92-49 ..... c 14 N73-13418 *
US-PATENT-CLASS-92-94 ..... c 32 N70-41370 *
US-PATENT-CLASS-92-98R ..... c 31 N85-21404 *
US-PATENT-CLASS-93-1 ..... c 15 N70-33180 *
US-PATENT-CLASS-94.9N ..... c 27 N81-15104 *
US-PATENT-CLASS-95-1.1 ..... c 14 N72-18411 *
US-PATENT-CLASS-95-1.1 ..... c 14 N73-26431 *
US-PATENT-CLASS-95-11.5R ..... c 14 N73-19419 *
US-PATENT-CLASS-95-11.5 ..... c 14 N73-32319 *
US-PATENT-CLASS-95-11R ..... c 14 N73-19419 *
US-PATENT-CLASS-95-11 ..... c 14 N71-18465 *
US-PATENT-CLASS-95-11 ..... c 16 N71-33410 *
US-PATENT-CLASS-95-11 ..... c 14 N73-32319 *
US-PATENT-CLASS-95-12.5 ..... c 31 N72-25842 *
US-PATENT-CLASS-95-12.5 ..... c 14 N73-14427 *
US-PATENT-CLASS-95-12 ..... c 14 N73-33361 *
US-PATENT-CLASS-95-18 ..... c 14 N72-20380 *
US-PATENT-CLASS-95-42 ..... c 14 N73-32322 *
US-PATENT-CLASS-95-44 ..... c 14 N71-26474 *
US-PATENT-CLASS-95-53EA ..... c 33 N74-20861 *
US-PATENT-CLASS-95-53 ..... c 15 N71-21060 *
US-PATENT-CLASS-95-58 ..... c 14 N70-40273 *
US-PATENT-CLASS-95-59 ..... c 14 N73-14427 *
US-PATENT-CLASS-95-69R ..... c 35 N74-15831 *
US-PATENT-CLASS-96-27R ..... c 35 N79-10389 *
US-PATENT-CLASS-96-36.2 ..... c 06 N72-21094 *
US-PATENT-CLASS-96-36.2 ..... c 15 N72-25452 *
US-PATENT-CLASS-96-38.3 ..... c 35 N74-26946 *
US-PATENT-CLASS-96-49 ..... c 14 N71-17574 *
US-PATENT-CLASS-96-60R ..... c 35 N79-10389 *
US-PATENT-CLASS-96-79 ..... c 35 N74-26946 *
US-PATENT-CLASS-96-87A ..... c 27 N78-14164 *
US-PATENT-CLASS-96-90PC ..... c 14 N72-22443 *
US-PATENT-CLASS-98-1.5 ..... c 44 N78-32539 *
US-PATENT-CLASS-98-1 ..... c 54 N78-17679 *
US-PATENT-CLASS-98-39 ..... c 31 N74-27902 *
US-PATENT-CLASS-99-80PS ..... c 05 N72-33096 *

US-PATENT-DES-228,688 ..... c 05 N74-10907 *

US-PATENT-RE-26,548 ..... c 07 N71-12389 *
US-PATENT-RE-28,921 ..... c 52 N76-30793 *

US-PATENT-2,837,706 ..... c 15 N71-28952 *
US-PATENT-2,898,889 ..... c 02 N71-29128 *
US-PATENT-2,903,307 ..... c 15 N71-29136 *
US-PATENT-2,926,123 ..... c 33 N71-29151 *
US-PATENT-2,934,331 ..... c 15 N70-33382 *
US-PATENT-2,940,259 ..... c 28 N70-33241 *
US-PATENT-2,944,316 ..... c 15 N71-16076 *
US-PATENT-2,945,667 ..... c 15 N70-33376 *
US-PATENT-2,956,772 ..... c 33 N71-29152 *
US-PATENT-2,960,002 ..... c 14 N70-41946 *
US-PATENT-2,971,837 ..... c 17 N70-33283 *
US-PATENT-2,974,925 ..... c 28 N70-33372 *
US-PATENT-2,984,735 ..... c 11 N70-33329 *
US-PATENT-2,991,671 ..... c 15 N70-33330 *
US-PATENT-2,991,961 ..... c 02 N70-33332 *
US-PATENT-2,996,212 ..... c 31 N71-17680 *
US-PATENT-2,997,274 ..... c 28 N71-29154 *
US-PATENT-3,001,363 ..... c 28 N70-33331 *
US-PATENT-3,001,395 ..... c 14 N70-33386 *
US-PATENT-3,001,739 ..... c 03 N70-33343 *
US-PATENT-3,004,189 ..... c 37 N75-29426 *
US-PATENT-3,004,735 ..... c 14 N70-33322 *
US-PATENT-3,005,081 ..... c 09 N70-33312 *
US-PATENT-3,005,339 ..... c 11 N70-33287 *
US-PATENT-3,008,229 ..... c 15 N70-33311 *
US-PATENT-3,010,372 ..... c 15 N70-33180 *
US-PATENT-3,011,760 ..... c 15 N70-33226 *
US-PATENT-3,012,400 ..... c 28 N70-33374 *
US-PATENT-3,012,407 ..... c 15 N70-33323 *
US-PATENT-3,016,693 ..... c 28 N70-33356 *
US-PATENT-3,016,863 ..... c 12 N70-33305 *
US-PATENT-3,022,672 ..... c 14 N70-34816 *
US-PATENT-3,024,659 ..... c 14 N70-34820 *
US-PATENT-3,028,122 ..... c 02 N70-33286 *
US-PATENT-3,028,126 ..... c 21 N70-33279 *
US-PATENT-3,028,128 ..... c 31 N70-33242 *
US-PATENT-3,035,333 ..... c 28 N70-41818 *
US-PATENT-3,038,077 ..... c 21 N70-33181 *
US-PATENT-3,038,175 ..... c 05 N70-33285 *
US-PATENT-3,041,587 ..... c 14 N70-33179 *
US-PATENT-3,041,924 ..... c 14 N70-33254 *
US-PATENT-3,045,424 ..... c 28 N70-40367 *
US-PATENT-3,049,876 ..... c 28 N70-33284 *
US-PATENT-3,053,484 ..... c 02 N70-33255 *
US-PATENT-3,057,597 ..... c 15 N70-33264 *
US-PATENT-3,059,220 ..... c 09 N70-33182 *
US-PATENT-3,063,291 ..... c 11 N70-33278 *
US-PATENT-3,064,928 ..... c 02 N70-33266 *
US-PATENT-3,067,573 ..... c 28 N70-39899 *
US-PATENT-3,068,658 ..... c 15 N70-34247 *
US-PATENT-3,069,123 ..... c 14 N70-39898 *
US-PATENT-3,070,330 ..... c 21 N70-34539 *
US-PATENT-3,070,349 ..... c 28 N70-39895 *
US-PATENT-3,070,407 ..... c 15 N70-39896 *
US-PATENT-3,072,574 ..... c 18 N70-39897 *
US-PATENT-3,076,065 ..... c 09 N70-39915 *
US-PATENT-3,077,599 ..... c 07 N70-40202 *
US-PATENT-3,079,113 ..... c 02 N70-38009 *
US-PATENT-3,080,711 ..... c 28 N70-38711 *
US-PATENT-3,083,611 ..... c 21 N70-35427 *
US-PATENT-3,084,421 ..... c 17 N70-38490 *
US-PATENT-3,085,165 ..... c 09 N70-34819 *
US-PATENT-3,087,692 ..... c 02 N70-34178 *
US-PATENT-3,088.441 ..... c 15 N70-35409 *
US-PATENT-3,090,212 ..... c 33 N70-37979 *
US-PATENT-3,090,580 ..... c 31 N70-37924 *
US-PATENT-3,093,000 ..... c 15 N70-37925 *
US-PATENT-3,093,346 ..... c 31 N70-37938 *
US-PATENT-3,098,630 ..... c 02 N70-37939 *
US-PATENT-3,100,294 ..... c 09 N70-38998 *
US-PATENT-3,100,990 ..... c 14 N70-34813 *
US-PATENT-3,102,948 ..... c 15 N70-34814 *
US-PATENT-3,104,079 ..... c 31 N70-37986 *
US-PATENT-3,104,082 ..... c 02 N70-38011 *
US-PATENT-3,105,515 ..... c 15 N70-38603 *
US-PATENT-3,106,603 ..... c 09 N70-38201 *
US-PATENT-3,108,171 ..... c 33 N70-34812 *
US-PATENT-3,110,318 ..... c 12 N70-38997 *
US-PATENT-3,112,672 ..... c 11 N70-38202 *
US-PATENT-3,115,630 ..... c 31 N70-37981 *
US-PATENT-3,118,100 ..... c 03 N71-29129 *
US-PATENT-3,119,086 ..... c 35 N79-33449 *
US-PATENT-3,119,232 ..... c 28 N70-37980 *
US-PATENT-3,120,101 ..... c 28 N70-34860 *
US-PATENT-3,120,361 ..... c 31 N70-38010 *
US-PATENT-3,120,738 ..... c 28 N70-38249 *
US-PATENT-3,121,309 ..... c 28 N70-35381 *
US-PATENT-3,122,000 ..... c 15 N70-38020 *
US-PATENT-3,122,098 ..... c 28 N70-38181 *
US-PATENT-3,122,885 ..... c 28 N70-38710 *
US-PATENT-3,123,248 ..... c 11 N70-38182 *
US-PATENT-3,123,418 ..... c 37 N79-33467 *
US-PATENT-3,123,692 ..... c 33 N79-33393 *
US-PATENT-3,127,157 ..... c 15 N70-38225 *
US-PATENT-3,128,389 ..... c 09 N70-38604 *
US-PATENT-3,128,845 ..... c 15 N70-38601 *
US-PATENT-3,130,940 ..... c 33 N70-33344 *
US-PATENT-3,131,040 ..... c 37 N79-21345 *
US-PATENT-3,132,342 ..... c 07 N70-38200 *
US-PATENT-3,132,476 ..... c 28 N70-34294 *
US-PATENT-3,132,479 ..... c 15 N71-28951 *
US-PATENT-3,132,903 ..... c 15 N70-38620 *
US-PATENT-3,134,389 ..... c 37 N79-33468 *
US-PATENT-3,135,089 ..... c 28 N70-38504 *
US-PATENT-3,135,090 ..... c 28 N70-38505 *
US-PATENT-3,136,123 ..... c 28 N70-38199 *
US-PATENT-3,138,837 ..... c 17 N70-38198 *
US-PATENT-3,139,725 ..... c 28 N70-38645 *
US-PATENT-3,140,728 ..... c 15 N70-36908 *
US-PATENT-3,141,340 ..... c 11 N70-38196 *
US-PATENT-3,141,769 ..... c 28 N70-38197 *
US-PATENT-3,141,932 ..... c 03 N70-38713 *
US-PATENT-3,143,321 ..... c 15 N70-34850 *
US-PATENT-3,143,651 ..... c 14 N70-40240 *
US-PATENT-3,144,219 ..... c 31 N70-38676 *
US-PATENT-3,144,999 ..... c 02 N70-34856 *
US-PATENT-3,145,874 ..... c 11 N71-15960 *
US-PATENT-3,147,422 ..... c 09 N70-38712 *
US-PATENT-3,149,897 ..... c 09 N70-36494 *
US-PATENT-3,150,329 ..... c 09 N70-38995 *
US-PATENT-3,150,387 ..... c 03 N70-36778 *
US-PATENT-3,152,344 ..... c 05 N70-36493 *
US-PATENT-3,155,992 ..... c 05 N70-34857 *
US-PATENT-3,156,090 ..... c 28 N70-37245 *
US-PATENT-3,157,529 ..... c 18 N70-36400 *
US-PATENT-3,158,172 ..... c 15 N70-34817 *
US-PATENT-3,158,336 ..... c 31 N70-36410 *
US-PATENT-3,158,764 ..... c 03 N70-36803 *
US-PATENT-3,159,967 ..... c 28 N70-36802 *
US-PATENT-3,160,825 ..... c 14 N70-35220 *
US-PATENT-3,160,950 ..... c 15 N70-36409 *
US-PATENT-3,162,012 ..... c 15 N70-36411 *
US-PATENT-3,163,935 ..... c 14 N70-36907 *
US-PATENT-3,164,222 ..... c 15 N70-34861 *
US-PATENT-3,164,369 ..... c 15 N70-36412 *
US-PATENT-3,165,356 ..... c 05 N70-35152 *
US-PATENT-3,166,834 ..... c 15 N70-36901 *
US-PATENT-3,167,426 ..... c 17 N70-36616 *
US-PATENT-3,168,827 ..... c 14 N70-36807 *
US-PATENT-3,169,001 ..... c 02 N70-36825 *
US-PATENT-3,169,613 ..... c 15 N70-36947 *
US-PATENT-3,169,725 ..... c 31 N70-34296 *
US-PATENT-3,170,286 ..... c 15 N70-36535 *
US-PATENT-3,170,290 ..... c 28 N70-36910 *
US-PATENT-3,170,295 ..... c 27 N71-28929 *
US-PATENT-3,170,324 ..... c 14 N70-36824 *
US-PATENT-3,170,471 ..... c 32 N70-36536 *
US-PATENT-3,170,486 ..... c 15 N70-36492 *
US-PATENT-3,170,605 ..... c 15 N70-38996 *
US-PATENT-3,170,657 ..... c 02 N70-34858 *
US-PATENT-3,170,660 ..... c 02 N70-36804 *
US-PATENT-3,170,773 ..... c 17 N70-33288 *
US-PATENT-3,171,060 ..... c 25 N70-33267 *
US-PATENT-3,171,081 ..... c 14 N70-35666 *
US-PATENT-3,172,097 ..... c 08 N70-35423 *
US-PATENT-3,173,246 ..... c 28 N70-33265 *
US-PATENT-3,173,251 ..... c 28 N70-33375 *
US-PATENT-3,173,801 ..... c 32 N79-19186 *
US-PATENT-3,174,278 ..... c 25 N70-36946 *
US-PATENT-3,174,279 ..... c 28 N70-36806 *
US-PATENT-3,174,827 ..... c 26 N70-36805 *
US-PATENT-3,175,789 ..... c 31 N70-36654 *
US-PATENT-3,176,222 ..... c 14 N70-36618 *
US-PATENT-3,176,499 ..... c 14 N70-35368 *
US-PATENT-3,176,933 ..... c 33 N70-36617 *
US-PATENT-3,177,933 ..... c 33 N70-36847 *
US-PATENT-3,178,883 ..... c 21 N70-36938 *
US-PATENT-3,180,264 ..... c 33 N70-36846 *
US-PATENT-3,180,587 ..... c 21 N70-36943 *
US-PATENT-3,181,821 ..... c 31 N70-36845 *
US-PATENT-3,182,496 ..... c 11 N70-36913 *
US-PATENT-3,183,506 ..... c 07 N70-36911 *
US-PATENT-3,185,023 ..... c 14 N70-34298 *
US-PATENT-3,187,583 ..... c 11 N70-38675 *
US-PATENT-3,188,472 ..... c 21 N70-34297 *
US-PATENT-3,188,844 ..... c 15 N70-34249 *
US-PATENT-3,189,299 ..... c 21 N70-34295 *
US-PATENT-3,189,535 ..... c 15 N70-34967 *
US-PATENT-3,189,726 ..... c 33 N70-34545 *
US-PATENT-3,189,784 ..... c 33 N75-27250 *
US-PATENT-3,189,794 ..... c 09 N70-34502 *
US-PATENT-3,189,864 ..... c 09 N70-34596 *
US-PATENT-3,190,124 ..... c 35 N79-33450 *
US-PATENT-3,191,316 ..... c 31 N70-34966 *
US-PATENT-3,191,379 ..... c 27 N70-35534 *
US-PATENT-3,191,907 ..... c 15 N70-34859 *
US-PATENT-3,192,730 ..... c 06 N70-34946 *
US-PATENT-3,193,883 ..... c 27 N70-34783 *
US-PATENT-3,194,060 ..... c 14 N70-34794 *
US-PATENT-3,194,525 ..... c 11 N70-35383 *
US-PATENT-3,194,951 ..... c 08 N70-34778 *
US-PATENT-3,196,261 ..... c 08 N70-34787 *
US-PATENT-3,196,362 ..... c 09 N70-35440 *
US-PATENT-3,196,557 ..... c 11 N70-34815 *
US-PATENT-3,196,558 ..... c 14 N70-35394 *

US-PATENT-3,196,598 ..... c 28 N70-34788 *
US-PATENT-3,196,675 ..... c 14 N70-34818 *
US-PATENT-3,196,690 ..... c 11 N70-34786 *
US-PATENT-3,197,616 ..... c 14 N71-28958 *
US-PATENT-3,198,955 ..... c 08 N70-34743 *
US-PATENT-3,198,994 ..... c 26 N73-28710 *
US-PATENT-3,199,340 ..... c 14 N70-34799 *
US-PATENT-3,199,343 ..... c 11 N70-34844 *
US-PATENT-3,199,931 ..... c 15 N70-34664 *
US-PATENT-3,200,706 ..... c 03 N70-34667 *
US-PATENT-3,201,560 ..... c 33 N70-34540 *
US-PATENT-3,201,635 ..... c 25 N70-34661 *
US-PATENT-3,201,980 ..... c 14 N70-40203 *
US-PATENT-3,202,381 ..... c 31 N70-34176 *
US-PATENT-3,202,398 ..... c 28 N71-28928 *
US-PATENT-3,202,844 ..... c 03 N70-34134 *
US-PATENT-3,202,915 ..... c 14 N70-38602 *
US-PATENT-3,202,998 ..... c 31 N70-34135 *
US-PATENT-3,204,447 ..... c 14 N70-34156 *
US-PATENT-3,204,889 ..... c 03 N70-34157 *
US-PATENT-3,205,361 ..... c 14 N70-34158 *
US-PATENT-3,205,362 ..... c 21 N70-35089 *
US-PATENT-3,205,381 ..... c 03 N70-35408 *
US-PATENT-3,206,141 ..... c 21 N70-35395 *
US-PATENT-3,206,897 ..... c 18 N75-27040 *
US-PATENT-3,208,215 ..... c 28 N70-34162 *
US-PATENT-3,208,272 ..... c 14 N70-34161 *
US-PATENT-3,208,694 ..... c 02 N70-34160 *
US-PATENT-3,208,707 ..... c 31 N70-34159 *
US-PATENT-3,209,360 ..... c 09 N70-35219 *
US-PATENT-3,209,361 ..... c 09 N70-35425 *
US-PATENT-3,210,927 ..... c 28 N70-34175 *
US-PATENT-3,211,169 ..... c 15 N70-35087 *
US-PATENT-3,211,414 ..... c 15 N70-35407 *
US-PATENT-3,212,096 ..... c 09 N70-35382 *
US-PATENT-3,212,259 ..... c 28 N71-29153 *
US-PATENT-3,212,325 ..... c 14 N70-34705 *
US-PATENT-3,212,564 ..... c 33 N71-29052 *
US-PATENT-3,215,313 ..... c 31 N79-21225 *
US-PATENT-3,215,572 ..... c 12 N70-40124 *
US-PATENT-3,216,007 ..... c 08 N70-40125 *
US-PATENT-3,217,624 ..... c 14 N70-40273 *
US-PATENT-3,218,479 ..... c 09 N70-40272 *
US-PATENT-3,218,547 ..... c 09 N70-40123 *
US-PATENT-3,218,850 ..... c 14 N70-40400 *
US-PATENT-3,219,250 ..... c 15 N70-40204 *
US-PATENT-3,219,365 ..... c 15 N71-28937 *
US-PATENT-3,219,997 ..... c 08 N73-28045 *
US-PATENT-3,220,004 ..... c 30 N70-40309 *
US-PATENT-3,221,547 ..... c 14 N70-40201 *
US-PATENT-3,221,549 ..... c 14 N70-40157 *
US-PATENT-3,223,374 ..... c 15 N70-40156 *
US-PATENT-3,224,001 ..... c 07 N70-40063 *
US-PATENT-3,224,173 ..... c 15 N70-40062 *
US-PATENT-3,224,263 ..... c 15 N70-40180 *
US-PATENT-3,224,336 ..... c 30 N70-40353 *
US-PATENT-3,224,337 ..... c 09 N79-21084 *
US-PATENT-3,228,492 ..... c 15 N70-40354 *
US-PATENT-3,228,558 ..... c 14 N70-40233 *
US-PATENT-3,229,099 ..... c 14 N70-40238 *
US-PATENT-3,229,102 ..... c 14 N70-40239 *
US-PATENT-3,229,139 ..... c 28 N70-39925 *
US-PATENT-3,229,155 ..... c 25 N70-41628 *
US-PATENT-3,229,463 ..... c 28 N70-39931 *
US-PATENT-3,229,568 ..... c 14 N70-40003 *
US-PATENT-3,229,636 ..... c 03 N70-39930 *
US-PATENT-3,229,682 ..... c 09 N70-40234 *
US-PATENT-3,229,689 ..... c 05 N70-39922 *
US-PATENT-3,229,884 ..... c 15 N70-39924 *
US-PATENT-3,229,905 ..... c 04 N78-17031 *
US-PATENT-3,229,930 ..... c 30 N70-40016 *
US-PATENT-3,230,053 ..... c 26 N70-40015 *
US-PATENT-3,233,862 ..... c 37 N79-33469 *
US-PATENT-3,236,066 ..... c 15 N71-28959 *
US-PATENT-3,237,253 ..... c 15 N71-15966 *
US-PATENT-3,238,345 ..... c 11 N71-15925 *
US-PATENT-3,238,413 ..... c 25 N71-29184 *
US-PATENT-3,238,715 ..... c 28 N71-14043 *
US-PATENT-3,238,730 ..... c 03 N71-12260 *
US-PATENT-3,238,774 ..... c 14 N71-14996 *
US-PATENT-3,238,777 ..... c 14 N71-15598 *
US-PATENT-3,239,660 ..... c 23 N71-30292 *
US-PATENT-3,242,716 ..... c 14 N71-15992 *
US-PATENT-3,243,154 ..... c 23 N71-15673 *
US-PATENT-3,243,791 ..... c 07 N71-11298 *
US-PATENT-3,244,943 ..... c 15 N73-28516 *
US-PATENT-3,249,012 ..... c 03 N71-12258 *
US-PATENT-3,249,013 ..... c 03 N71-12259 *
US-PATENT-3,251,053 ..... c 08 N71-12501 *
US-PATENT-3,252,100 ..... c 10 N71-28960 *
US-PATENT-3,254,395 ..... c 28 N71-15658 *
US-PATENT-3,254,487 ..... c 28 N71-15659 *
US-PATENT-3,257,780 ..... c 15 N71-15968 *
US-PATENT-3,258,582 ..... c 02 N71-13421 *
US-PATENT-3,258,687 ..... c 14 N71-15962 *
US-PATENT-3,258,831 ..... c 15 N71-15986 *
US-PATENT-3,258,912 ..... c 27 N71-15634 *
US-PATENT-3,258,918 ..... c 27 N71-15635 *
US-PATENT-3,260,055 ..... c 23 N71-15467 *
US-PATENT-3,260,204 ..... c 31 N71-15692 *
US-PATENT-3,260,326 ..... c 11 N71-28779 *
US-PATENT-3,261,210 ..... c 14 N71-15969 *
US-PATENT-3,262,025 ..... c 15 N73-32361 *
US-PATENT-3,262,186 ..... c 15 N71-16052 *
US-PATENT-3,262,262 ..... c 28 N71-15661 *
US-PATENT-3,262,351 ..... c 15 N71-15922 *
US-PATENT-3,262,365 ..... c 31 N71-15675 *
US-PATENT-3,262,395 ..... c 15 N71-30028 *
US-PATENT-3,262,518 ..... c 05 N71-11199 *
US-PATENT-3,262,655 ..... c 31 N71-15663 *
US-PATENT-3,262,694 ..... c 44 N79-19447 *
US-PATENT-3,263,016 ..... c 33 N71-15625 *
US-PATENT-3,263,171 ..... c 09 N71-13530 *
US-PATENT-3,263,610 ..... c 15 N71-13789 *
US-PATENT-3,264,135 ..... c 15 N71-16075 *
US-PATENT-3,270,441 ..... c 11 N71-16028 *
US-PATENT-3,270,499 ..... c 28 N71-15660 *
US-PATENT-3,270,501 ..... c 31 N71-15647 *
US-PATENT-3,270,503 ..... c 33 N71-15623 *
US-PATENT-3,270,504 ..... c 31 N71-15637 *
US-PATENT-3,270,505 ..... c 21 N71-15582 *
US-PATENT-3,270,512 ..... c 15 N71-15906 *
US-PATENT-3,270,565 ..... c 14 N71-30265 *
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US-PATENT-3,270,835 ..... c 28 N70-41582 *
US-PATENT-3,270,908 ..... c 31 N71-15664 *
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US-PATENT-3,270,986 ..... c 05 N71-12336 *
US-PATENT-3,270,988 ..... c 01 N71-13410 *
US-PATENT-3,270,989 ..... c 02 N71-11041 * #
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US-PATENT-3,271,140 ..... c 17 N71-15644 *
US-PATENT-3,271,181 ..... c 15 N71-16077 *
US-PATENT-3,271,532 ..... c 09 N71-16089 *
US-PATENT-3,271,558 ..... c 15 N71-15871 *
US-PATENT-3,271,594 ..... c 10 N71-28739 *
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US-PATENT-3,271,637 ..... c 26 N71-18064 *
US-PATENT-3,271,649 ..... c 10 N71-16030 *
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US-PATENT-3,273,355 ..... c 33 N71-17897 *
US-PATENT-3,273,381 ..... c 32 N71-17645 *
US-PATENT-3,273,388 ..... c 09 N71-16086 *
US-PATENT-3,273,392 ..... c 23 N71-17802 *
US-PATENT-3,273,399 ..... c 12 N71-24692 *
US-PATENT-3,274,304 ..... c 26 N71-17818 *
US-PATENT-3,275,794 ..... c 37 N75-27376 *
US-PATENT-3,276,251 ..... c 11 N71-15926 *
US-PATENT-3,276,376 ..... c 31 N71-17629 *
US-PATENT-3,276,602 ..... c 32 N71-17609 *
US-PATENT-3,276,679 ..... c 15 N71-16079 *
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US-PATENT-3,276,865 ..... c 17 N71-16025 *
US-PATENT-3,276,866 ..... c 17 N71-16026 *
US-PATENT-3,276,946 ..... c 23 N71-15978 *
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US-PATENT-3,277,373 ..... c 07 N71-16088 *
US-PATENT-3,277,375 ..... c 07 N71-11284 *
US-PATENT-3,277,458 ..... c 10 N71-16058 *
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US-PATENT-3,281,963 ..... c 11 N71-10746 *
US-PATENT-3,281,964 ..... c 11 N71-10776 *
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US-PATENT-3,283,175 ..... c 10 N71-15910 *
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US-PATENT-3,286,882 ..... c 27 N71-29155 *
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US-PATENT-3,296,526 ..... c 14 N70-41332 *
US-PATENT-3,296,531 ..... c 07 N70-41331 *
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US-PATENT-3,298,182 ..... c 28 N70-41311 *
US-PATENT-3,298,221 ..... c 14 N70-41330 *
US-PATENT-3,298,285 ..... c 32 N70-41370 *
US-PATENT-3,298,362 ..... c 05 N70-41329 *
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US-PATENT-3,300,731 ..... c 07 N70-41372 *
US-PATENT-3,300,847 ..... c 15 N70-41371 *
US-PATENT-3,300,949 ..... c 05 N70-41297 *
US-PATENT-3,300,981 ..... c 28 N70-41275 *
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US-PATENT-3,301,507 ..... c 31 N70-41631 *
US-PATENT-3,301,511 ..... c 02 N70-41630 *
US-PATENT-3,301,578 ..... c 15 N70-41629 *
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US-PATENT-3,302,960 ..... c 15 N70-41829 *
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US-PATENT-3,304,729 ..... c 31 N70-41871 *
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US-PATENT-3,311,502 ..... c 03 N71-10608 *
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US-PATENT-3,311,571 ..... c 27 N79-21190 *
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US-PATENT-3,316,716 ..... c 28 N71-10780 *
US-PATENT-3,316,752 ..... c 14 N71-10779 *
US-PATENT-3,316,991 ..... c 14 N71-10773 *
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US-PATENT-3,318,096 ..... c 28 N71-28849 *
US-PATENT-3,318,343 ..... c 15 N71-10809 *
US-PATENT-3,318,622 ..... c 15 N71-10799 *

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US-PATENT-3,321,645 ..... c 10 N70-42032 *
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US-PATENT-3,323,386 ..... c 03 N70-42073 *
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US-PATENT-3,323,484 ..... c 14 N70-42074 *
US-PATENT-3,323,967 ..... c 15 N70-42033 *
US-PATENT-3,324,370 ..... c 09 N71-10677 *
US-PATENT-3,324,388 ..... c 14 N71-10797 *
US-PATENT-3,324,423 ..... c 07 N71-10676 *
US-PATENT-3,324,659 ..... c 28 N71-10574 *
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US-PATENT-3,327,991 ..... c 15 N71-21234 *
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US-PATENT-3,330,082 ..... c 15 N71-21531 *
US-PATENT-3,330,510 ..... c 31 N71-28851 *
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US-PATENT-3,331,255 ..... c 15 N71-21529 *
US-PATENT-3,331,404 ..... c 12 N71-21089 *
US-PATENT-3,331,951 ..... c 21 N71-21688 *
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US-PATENT-3,333,788 ..... c 31 N71-21881 *
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US-PATENT-3,336,725 ..... c 15 N71-21528 *
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US-PATENT-3,336,754 ..... c 28 N71-22983 *
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US-PATENT-3,337,279 ..... c 05 N71-23080 *
US-PATENT-3,337,315 ..... c 18 N71-23088 *
US-PATENT-3,337,337 ..... c 18 N71-22894 *
US-PATENT-3,337,790 ..... c 12 N71-20896 *
US-PATENT-3,337,812 ..... c 09 N71-23097 *
US-PATENT-3,339,404 ..... c 14 N71-22765 *
US-PATENT-3,339,863 ..... c 14 N71-23040 *
US-PATENT-3,340,099 ..... c 03 N71-23006 *
US-PATENT-3,340,395 ..... c 14 N71-23041 *
US-PATENT-3,340,397 ..... c 11 N71-23042 *
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US-PATENT-3,341,708 ..... c 16 N71-22895 *
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US-PATENT-3,346,806 ..... c 14 N71-21090 *
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US-PATENT-3,348,218 ..... c 10 N71-29135 *
US-PATENT-3,349,814 ..... c 33 N71-20834 *
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US-PATENT-3,356,549 ..... c 15 N71-21404 *
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US-PATENT-3,379,064 ..... c 14 N71-23093 *
US-PATENT-3,379,330 ..... c 23 N71-22881 *
US-PATENT-3,379,885 ..... c 09 N71-22985 *
US-PATENT-3,379,974 ..... c 14 N71-22990 *
US-PATENT-3,380,042 ..... c 07 N71-23001 *
US-PATENT-3,380,049 ..... c 10 N71-23099 *
US-PATENT-3,381,339 ..... c 06 N71-22975 *
US-PATENT-3,381,517 ..... c 09 N71-22988 *
US-PATENT-3,381,527 ..... c 15 N71-22878 *
US-PATENT-3,381,569 ..... c 21 N71-22880 *
US-PATENT-3,381,778 ..... c 15 N71-22877 *
US-PATENT-3,382,082 ..... c 18 N71-22998 *
US-PATENT-3,382,105 ..... c 03 N71-29044 *
US-PATENT-3,382,107 ..... c 03 N71-22974 *
US-PATENT-3,382,714 ..... c 14 N71-22989 *
US-PATENT-3,383,461 ..... c 07 N71-23026 *
US-PATENT-3,383,524 ..... c 10 N71-23029 *
US-PATENT-3,383,903 ..... c 14 N71-23036 *
US-PATENT-3,383,922 ..... c 14 N71-22752 *
US-PATENT-3,384,016 ..... c 31 N71-23008 *
US-PATENT-3,384,075 ..... c 05 N71-22896 *
US-PATENT-3,384,111 ..... c 15 N71-22706 *
US-PATENT-3,384,324 ..... c 33 N71-22792 *
US-PATENT-3,384,820 ..... c 09 N71-23021 *
US-PATENT-3,384,895 ..... c 07 N71-22984 *
US-PATENT-3,385,036 ..... c 15 N71-22721 *
US-PATENT-3,386,337 ..... c 15 N71-22799 *
US-PATENT-3,386,685 ..... c 31 N71-22968 *
US-PATENT-3,386,686 ..... c 31 N71-22969 *
US-PATENT-3,387,149 ..... c 14 N71-22993 *
US-PATENT-3,387,218 ..... c 37 N78-17386 *
US-PATENT-3,388,258 ..... c 14 N71-22996 *
US-PATENT-3,388,387 ..... c 10 N71-23033 *
US-PATENT-3,388,590 ..... c 14 N71-23087 *
US-PATENT-3,389,017 ..... c 15 N71-23022 *
US-PATENT-3,389,260 ..... c 14 N71-23269 *
US-PATENT-3,389,346 ..... c 10 N71-28859 *
US-PATENT-3,389,877 ..... c 15 N71-28936 *
US-PATENT-3,390,017 ..... c 03 N71-23336 *
US-PATENT-3,390,020 ..... c 26 N71-23654 *
US-PATENT-3,390,023 ..... c 26 N75-29236 *
US-PATENT-3,390,282 ..... c 09 N71-23311 *
US-PATENT-3,390,378 ..... c 08 N71-23295 *
US-PATENT-3,390,528 ..... c 20 N79-21124 *
US-PATENT-3,391,080 ..... c 15 N71-24046 *
US-PATENT-3,392,403 ..... c 23 N71-23976 *
US-PATENT-3,392,586 ..... c 14 N71-24232 *
US-PATENT-3,392,864 ..... c 18 N71-23658 *
US-PATENT-3,392,865 ..... c 15 N71-23816 *
US-PATENT-3,392,936 ..... c 01 N71-23497 *
US-PATENT-3,393,059 ..... c 06 N71-23499 *
US-PATENT-3,393,330 ..... c 22 N71-23599 *
US-PATENT-3,393,332 ..... c 09 N71-23443 *
US-PATENT-3,393,347 ..... c 10 N71-23543 *
US-PATENT-3,393,380 ..... c 10 N71-23544 *
US-PATENT-3,393,384 ..... c 09 N71-23573 *
US-PATENT-3,394,286 ..... c 14 N73-30391 *
US-PATENT-3,394,359 ..... c 08 N71-28925 *
US-PATENT-3,394,975 ..... c 23 N71-30027 *
US-PATENT-3,395,053 ..... c 18 N71-23047 *
US-PATENT-3,395,565 ..... c 14 N73-30390 *
US-PATENT-3,396,057 ..... c 26 N71-23043 *
US-PATENT-3,396,184 ..... c 06 N71-28808 *
US-PATENT-3,396,303 ..... c 09 N71-22987 *
US-PATENT-3,396,584 ..... c 14 N71-30026 *
US-PATENT-3,396,719 ..... c 52 N79-21750 *
US-PATENT-3,396,920 ..... c 31 N71-29050 *
US-PATENT-3,397,094 ..... c 26 N71-29156 *
US-PATENT-3,397,117 ..... c 15 N71-23086 *
US-PATENT-3,397,318 ..... c 14 N71-22991 *
US-PATENT-3,397,512 ..... c 15 N71-23023 *
US-PATENT-3,397,537 ..... c 20 N79-21125 *
US-PATENT-3,397,932 ..... c 15 N71-22982 *
US-PATENT-3,399,299 ..... c 10 N71-23662 *
US-PATENT-3,399,574 ..... c 32 N71-24285 *
US-PATENT-3,402,265 ..... c 09 N73-28084 *
US-PATENT-3,404,289 ..... c 09 N71-23545 *
US-PATENT-3,404,348 ..... c 32 N74-22096 *
US-PATENT-3,405,406 ..... c 05 N71-23161 *
US-PATENT-3,405,887 ..... c 31 N71-24315 *
US-PATENT-3,406,336 ..... c 10 N71-24863 *
US-PATENT-3,406,742 ..... c 33 N71-24276 *
US-PATENT-3,407,304 ..... c 14 N71-23240 *
US-PATENT-3,408,816 ..... c 28 N71-24736 *
US-PATENT-3,408,870 ..... c 14 N71-23227 *
US-PATENT-3,409,247 ..... c 33 N71-28903 *
US-PATENT-3,409,252 ..... c 15 N71-23255 *
US-PATENT-3,409,554 ..... c 26 N71-23292 *
US-PATENT-3,409,730 ..... c 33 N71-24145 *
US-PATENT-3,411,356 ..... c 14 N71-23226 *
US-PATENT-3,411,900 ..... c 26 N75-27126 *
US-PATENT-3,412,559 ..... c 28 N71-23293 *
US-PATENT-3,412,598 ..... c 14 N71-23225 *
US-PATENT-3,412,729 ..... c 04 N71-23185 *
US-PATENT-3,412,961 ..... c 32 N71-23971 *
US-PATENT-3,413,115 ..... c 17 N71-23365 *
US-PATENT-3,413,393 ..... c 17 N71-29137 *
US-PATENT-3,413,510 ..... c 09 N71-23190 *
US-PATENT-3,413,536 ..... c 03 N71-24605 *
US-PATENT-3,414,012 ..... c 09 N71-23191 *
US-PATENT-3,414,358 ..... c 14 N71-23175 *
US-PATENT-3,415,032 ..... c 15 N71-23256 *
US-PATENT-3,415,069 ..... c 15 N71-24044 *

US-PATENT-3,415,116 ..... c 14 N71-23790 *
US-PATENT-3,415,126 ..... c 21 N71-23289 *
US-PATENT-3,415,156 ..... c 15 N71-24043 *
US-PATENT-3,415,643 ..... c 17 N71-23248 *
US-PATENT-3,416,106 ..... c 09 N71-24808 *
US-PATENT-3,416,274 ..... c 31 N71-24035 *
US-PATENT-3,416,939 ..... c 18 N71-24183 *
US-PATENT-3,416,975 ..... c 17 N71-23828 *
US-PATENT-3,416,988 ..... c 15 N71-24164 *
US-PATENT-3,417,247 ..... c 14 N71-23797 *
US-PATENT-3,417,266 ..... c 09 N71-23270 *
US-PATENT-3,417,298 ..... c 10 N71-23271 *
US-PATENT-3,417,316 ..... c 14 N71-23174 *
US-PATENT-3,417,321 ..... c 09 N71-23316 *
US-PATENT-3,417,332 ..... c 07 N71-23405 *
US-PATENT-3,417,399 ..... c 30 N71-23723 *
US-PATENT-3,417,400 ..... c 07 N71-28809 *
US-PATENT-3,419,329 ..... c 14 N71-23268 *
US-PATENT-3,419,363 ..... c 18 N71-23710 *
US-PATENT-3,419,384 ..... c 17 N73-28573 *
US-PATENT-3,419,433 ..... c 03 N71-23187 *
US-PATENT-3,419,531 ..... c 27 N79-21191 *
US-PATENT-3,419,537 ..... c 06 N71-23500 *
US-PATENT-3,419,827 ..... c 09 N71-23548 *
US-PATENT-3,419,964 ..... c 14 N69-21363 * #
US-PATENT-3,419,992 ..... c 14 N71-23401 *
US-PATENT-3,420,069 ..... c 15 N69-21465 * #
US-PATENT-3,420,223 ..... c 05 N69-21925 * #
US-PATENT-3,420,225 ..... c 05 N69-21473 * #
US-PATENT-3,420,253 ..... c 12 N69-21466 * #
US-PATENT-3,420,338 ..... c 15 N71-26243 *
US-PATENT-3,420,471 ..... c 05 N69-21380 * #
US-PATENT-3,420,704 ..... c 15 N69-21460 * #
US-PATENT-3,420,945 ..... c 09 N69-21542 * #
US-PATENT-3,420,978 ..... c 15 N69-21471 * #
US-PATENT-3,421,004 ..... c 14 N71-19568 *
US-PATENT-3,421,053 ..... c 15 N69-21472 * #
US-PATENT-3,421,056 ..... c 14 N69-23191 * #
US-PATENT-3,421,105 ..... c 09 N69-21543 * #
US-PATENT-3,421,134 ..... c 09 N69-21470 * #
US-PATENT-3,421,331 ..... c 15 N69-23190 * #
US-PATENT-3,421,363 ..... c 11 N69-21540 * #
US-PATENT-3,421,506 ..... c 05 N69-23192 * #
US-PATENT-3,421,541 ..... c 15 N69-21924 * #
US-PATENT-3,421,549 ..... c 03 N69-21469 * #
US-PATENT-3,421,591 ..... c 14 N69-21923 * #
US-PATENT-3,421,700 ..... c 15 N69-23185 * #
US-PATENT-3,421,768 ..... c 15 N69-21362 * #
US-PATENT-3,421,864 ..... c 17 N71-23046 *
US-PATENT-3,421,948 ..... c 03 N69-21337 * #
US-PATENT-3,422,213 ..... c 03 N69-21539 * #
US-PATENT-3,422,278 ..... c 09 N69-21468 * #
US-PATENT-3,422,291 ..... c 25 N69-21929 * #
US-PATENT-3,422,324 ..... c 14 N69-21541 * #
US-PATENT-3,422,352 ..... c 14 N71-19431 *
US-PATENT-3,422,354 ..... c 09 N69-21926 * #
US-PATENT-3,422,390 ..... c 09 N69-21927 * #
US-PATENT-3,422,403 ..... c 08 N69-21928 * #
US-PATENT-3,422,440 ..... c 09 N69-21467 * #
US-PATENT-3,423,179 ..... c 15 N69-21922 * #
US-PATENT-3,423,290 ..... c 06 N71-17705 *
US-PATENT-3,423,579 ..... c 09 N71-19480 *
US-PATENT-3,423,608 ..... c 09 N69-21313 * #
US-PATENT-3,423,627 ..... c 33 N78-17293 *
US-PATENT-3,424,966 ..... c 10 N71-20448 *
US-PATENT-3,425,131 ..... c 15 N71-19489 *
US-PATENT-3,425,268 ..... c 14 N69-39975 * #
US-PATENT-3,425,272 ..... c 14 N71-20439 *
US-PATENT-3,425,276 ..... c 14 N69-24257 * #
US-PATENT-3,425,486 ..... c 05 N71-24147 *
US-PATENT-3,425,487 ..... c 05 N71-19439 *
US-PATENT-3,425,885 ..... c 15 N69-24322 * #
US-PATENT-3,426,219 ..... c 09 N69-24317 * #
US-PATENT-3,426,230 ..... c 15 N69-24319 * #
US-PATENT-3,426,263 ..... c 03 N71-19438 *
US-PATENT-3,426,272 ..... c 14 N69-39785 * #
US-PATENT-3,426,746 ..... c 05 N71-26293 *
US-PATENT-3,426,791 ..... c 15 N71-19569 *
US-PATENT-3,427,047 ..... c 15 N69-27490 * #
US-PATENT-3,427,089 ..... c 23 N69-24332 * #
US-PATENT-3,427,093 ..... c 09 N71-19479 *
US-PATENT-3,427,097 ..... c 11 N69-24321 * #
US-PATENT-3,427,205 ..... c 15 N69-24320 * #
US-PATENT-3,427,435 ..... c 17 N69-25147 * #
US-PATENT-3,427,454 ..... c 05 N71-19440 *
US-PATENT-3,427,525 ..... c 03 N69-21330 * #
US-PATENT-3,428,761 ..... c 09 N69-24329 * #
US-PATENT-3,428,812 ..... c 14 N69-27485 * #
US-PATENT-3,428,847 ..... c 15 N69-24266 * #
US-PATENT-3,428,910 ..... c 09 N69-24330 * #
US-PATENT-3,428,919 ..... c 07 N69-24334 * #
US-PATENT-3,428,923 ..... c 07 N69-27462 * #
US-PATENT-3,429,058 ..... c 12 N69-39988 * #
US-PATENT-3,429,177 ..... c 06 N69-39733 * #
US-PATENT-3,429,477 ..... c 15 N69-27502 * #
US-PATENT-3,429,756 ..... c 76 N79-21910 *
US-PATENT-3,430,063 ..... c 09 N69-27500 * #
US-PATENT-3,430,115 ..... c 09 N69-24318 * #
US-PATENT-3,430,131 ..... c 24 N71-20518 *
US-PATENT-3,430,182 ..... c 14 N69-27431 * #
US-PATENT-3,430,227 ..... c 08 N71-19687 *
US-PATENT-3,430,237 ..... c 07 N69-39974 * #
US-PATENT-3,430,460 ..... c 15 N69-27505 * #
US-PATENT-3,430,902 ..... c 14 N69-27486 * #
US-PATENT-3,430,909 ..... c 11 N69-27466 * #
US-PATENT-3,430,937 ..... c 15 N69-27483 * #
US-PATENT-3,430,942 ..... c 15 N69-27504 * #
US-PATENT-3,431,149 ..... c 14 N69-27459 * #
US-PATENT-3,431,397 ..... c 15 N69-27871 * #
US-PATENT-3,431,460 ..... c 09 N71-23189 *
US-PATENT-3,431,559 ..... c 09 N69-24333 * #
US-PATENT-3,432,730 ..... c 09 N69-27422 * #
US-PATENT-3,433,015 ..... c 28 N71-20330 *
US-PATENT-3,433,079 ..... c 14 N69-27503 * #
US-PATENT-3,433,662 ..... c 14 N71-20461 *
US-PATENT-3,433,818 ..... c 06 N71-23230 *
US-PATENT-3,433,909 ..... c 10 N71-23663 *
US-PATENT-3,433,953 ..... c 14 N69-27484 * #
US-PATENT-3,433,960 ..... c 16 N69-27491 * #
US-PATENT-3,433,961 ..... c 14 N69-27432 * #
US-PATENT-3,434,033 ..... c 09 N69-39984 * #
US-PATENT-3,434,037 ..... c 10 N71-26414 *
US-PATENT-3,434,050 ..... c 09 N71-20569 *
US-PATENT-3,434,064 ..... c 09 N69-39986 * #
US-PATENT-3,434,855 ..... c 18 N71-24184 *
US-PATENT-3,434,885 ..... c 03 N71-20492 *
US-PATENT-3,435,246 ..... c 14 N69-24331 * #
US-PATENT-3,437,394 ..... c 14 N69-27461 * #
US-PATENT-3,437,527 ..... c 03 N69-24267 * #
US-PATENT-3,437,560 ..... c 04 N69-27487 * #
US-PATENT-3,437,818 ..... c 03 N71-23354 *
US-PATENT-3,437,832 ..... c 09 N69-27463 * #
US-PATENT-3,437,874 ..... c 08 N71-20571 *
US-PATENT-3,437,903 ..... c 03 N69-25146 * #
US-PATENT-3,437,919 ..... c 14 N69-27423 * #
US-PATENT-3,437,935 ..... c 09 N69-24324 * #
US-PATENT-3,437,959 ..... c 07 N69-24323 * #
US-PATENT-3,438,044 ..... c 07 N69-27460 * #
US-PATENT-3,438,263 ..... c 14 N71-20435 *
US-PATENT-3,439,886 ..... c 31 N69-27499 * #
US-PATENT-3,440,419 ..... c 14 N73-28491 *
US-PATENT-3,442,674 ..... c 25 N82-29370 *
US-PATENT-3,443,128 ..... c 03 N69-39890 * #
US-PATENT-3,443,208 ..... c 14 N71-20428 *
US-PATENT-3,443,384 ..... c 28 N71-24321 *
US-PATENT-3,443,390 ..... c 11 N71-24964 *
US-PATENT-3,443,412 ..... c 15 N71-23811 *
US-PATENT-3,443,416 ..... c 06 N69-39936 * #
US-PATENT-3,443,472 ..... c 15 N71-23254 *
US-PATENT-3,443,583 ..... c 14 N71-18625 *
US-PATENT-3,443,584 ..... c 32 N71-16106 *
US-PATENT-3,443,732 ..... c 15 N71-15607 *
US-PATENT-3,443,773 ..... c 31 N71-23912 *
US-PATENT-3,443,779 ..... c 01 N69-39981 * #
US-PATENT-3,444,051 ..... c 05 N71-11207 *
US-PATENT-3,444,127 ..... c 06 N71-11237 *
US-PATENT-3,444,375 ..... c 14 N71-15599 *
US-PATENT-3,444,380 ..... c 07 N69-39980 * #
US-PATENT-3,446,075 ..... c 14 N73-30394 *
US-PATENT-3,446,387 ..... c 15 N69-39935 * #
US-PATENT-3,446,558 ..... c 16 N71-24074 *
US-PATENT-3,446,642 ..... c 18 N69-39895 * #
US-PATENT-3,446,676 ..... c 03 N71-11050 *
US-PATENT-3,446,960 ..... c 14 N69-39982 * #
US-PATENT-3,446,992 ..... c 09 N69-39987 * #
US-PATENT-3,446,997 ..... c 03 N69-39898 * #
US-PATENT-3,446,998 ..... c 09 N69-39929 * #
US-PATENT-3,447,003 ..... c 09 N71-20446 *
US-PATENT-3,447,015 ..... c 06 N69-39889 * #
US-PATENT-3,447,071 ..... c 25 N69-39884 * #
US-PATENT-3,447,154 ..... c 21 N71-11766 *
US-PATENT-3,447,155 ..... c 09 N71-18598 *
US-PATENT-3,447,233 ..... c 15 N69-39786 * #
US-PATENT-3,447,774 ..... c 15 N71-19485 *
US-PATENT-3,447,850 ..... c 09 N71-18600 *
US-PATENT-3,448,273 ..... c 07 N69-39736 * #
US-PATENT-3,448,290 ..... c 10 N71-23315 *
US-PATENT-3,448,341 ..... c 09 N71-12526 *
US-PATENT-3,448,346 ..... c 15 N71-18701 *
US-PATENT-3,450,842 ..... c 07 N69-39978 * #
US-PATENT-3,450,878 ..... c 14 N71-20430 *
US-PATENT-3,450,946 ..... c 09 N69-39897 * #
US-PATENT-3,452,103 ..... c 06 N73-30101 *
US-PATENT-3,452,423 ..... c 26 N71-16037 *
US-PATENT-3,452,872 ..... c 14 N69-39896 * #
US-PATENT-3,453,172 ..... c 15 N69-39735 * #
US-PATENT-3,453,462 ..... c 03 N69-39983 * #
US-PATENT-3,453,546 ..... c 05 N71-12342 *
US-PATENT-3,453,878 ..... c 09 N79-21083 *
US-PATENT-3,454,410 ..... c 18 N69-39979 * #
US-PATENT-3,454,766 ..... c 35 N75-27329 *
US-PATENT-3,455,121 ..... c 14 N71-20427 *
US-PATENT-3,455,171 ..... c 23 N71-16098 *
US-PATENT-3,456,112 ..... c 14 N69-39937 * #
US-PATENT-3,456,193 ..... c 08 N71-19763 *
US-PATENT-3,456,201 ..... c 09 N69-39885 * #
US-PATENT-3,458,104 ..... c 15 N71-20393 *
US-PATENT-3,458,313 ..... c 14 N71-17574 *
US-PATENT-3,458,651 ..... c 09 N71-19449 *
US-PATENT-3,458,702 ..... c 14 N71-18699 *
US-PATENT-3,458,726 ..... c 10 N69-39888 * #
US-PATENT-3,458,833 ..... c 10 N71-19418 *
US-PATENT-3,458,851 ..... c 09 N69-39734 * #
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US-PATENT-3,461,437 ..... c 10 N71-26434 *
US-PATENT-3,461,700 ..... c 15 N71-26346 *
US-PATENT-3,461,721 ..... c 12 N71-20436 *
US-PATENT-3,461,855 ..... c 05 N71-20268 *
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US-PATENT-3,464,018 ..... c 09 N71-23525 *
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US-PATENT-3,464,051 ..... c 15 N71-17685 *
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US-PATENT-3,466,085 ..... c 05 N71-12343 *
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US-PATENT-3,466,243 ..... c 15 N71-23810 *
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US-PATENT-3,466,424 ..... c 15 N71-20395 *
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US-PATENT-3,472,086 ..... c 15 N71-23809 *
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US-PATENT-3,472,629 ..... c 14 N71-20442 *
US-PATENT-3,472,698 ..... c 03 N71-23449 *

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US-PATENT-3,473,216 ..... c 15 N71-20443 *
US-PATENT-3,473,379 ..... c 12 N71-26387 *
US-PATENT-3,473,758 ..... c 03 N71-20273 *
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US-PATENT-3,481,887 ..... c 18 N71-26155 *
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US-PATENT-3,484,712 ..... c 10 N71-26374 *
US-PATENT-3,485,290 ..... c 20 N79-21123 *
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US-PATENT-3,488,414 ..... c 15 N71-17803 *
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US-PATENT-3,488,771 ..... c 54 N78-17678 *
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US-PATENT-3,490,205 ..... c 14 N71-17588 *
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US-PATENT-3,552,125 ..... c 28 N71-26173 *
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US-PATENT-3,624,659 ..... c 09 N72-21246 *
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US-PATENT-3,631,382 ..... c 09 N72-20200 *
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US-PATENT-3,659,184 ..... c 09 N72-25251 *
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US-PATENT-3,741,001 ..... c 14 N73-27376 * #
US-PATENT-3,742,316 ..... c 09 N73-27150 * #
US-PATENT-3,744,128 ..... c 09 N73-28083 *
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US-PATENT-3,744,294 ..... c 14 N73-27379 *
US-PATENT-3,744,305 ..... c 12 N73-28144 *
US-PATENT-3,744,320 ..... c 14 N73-28487 *
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US-PATENT-3,745,089 ..... c 06 N73-27086 *
US-PATENT-3,745,090 ..... c 04 N73-27052 *
US-PATENT-3,745,149 ..... c 06 N73-27980 *
US-PATENT-3,745,255 ..... c 07 N73-28012 *
US-PATENT-3,745,300 ..... c 15 N73-28515 *
US-PATENT-3,745,352 ..... c 08 N73-30135 *
US-PATENT-3,745,357 ..... c 14 N73-28488 *
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US-PATENT-3,745,475 ..... c 14 N73-30386 *
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US-PATENT-3,747,111 ..... c 07 N73-28013 *
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US-PATENT-3,748,853 ..... c 23 N73-30665 *
US-PATENT-3,748,905 ..... c 14 N73-30395 *
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US-PATENT-3,749,205 ..... c 15 N73-30460 *
US-PATENT-3,749,332 ..... c 31 N73-32750 *
US-PATENT-3,749,362 ..... c 15 N73-30457 *
US-PATENT-3,749,831 ..... c 07 N73-30115 *
US-PATENT-3,749,911 ..... c 14 N73-30389 *
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US-PATENT-3,756,920 ..... c 05 N73-32011 *
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US-PATENT-3,758,877 ..... c 16 N73-32391 *
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US-PATENT-3,759,443 ..... c 28 N73-32606 *
US-PATENT-3,759,588 ..... c 15 N73-32359 *
US-PATENT-3,759,672 ..... c 14 N73-32320 *
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US-PATENT-3,762,918 ..... c 17 N73-32415 *
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US-PATENT-3,763,740 ..... c 11 N73-32152 *
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US-PATENT-3,764,209 ..... c 14 N73-33361 *
US-PATENT-3,764,220 ..... c 16 N73-33397 *
US-PATENT-3,764,790 ..... c 33 N74-10223 *
US-PATENT-3,764,850 ..... c 33 N74-10195 *
US-PATENT-3,764,933 ..... c 33 N74-10194 *
US-PATENT-3,765,229 ..... c 35 N74-10415 *
US-PATENT-3,765,958 ..... c 26 N74-10521 *
US-PATENT-3,766,315 ..... c 32 N74-10132 *
US-PATENT-3,766,380 ..... c 35 N74-11284 *
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US-PATENT-3,769,544 ..... c 31 N78-17238 *
US-PATENT-3,769,623 ..... c 32 N74-11000 *
US-PATENT-3,769,689 ..... c 37 N74-11301 *
US-PATENT-3,769,834 ..... c 52 N74-10975 *
US-PATENT-3,770,021 ..... c 33 N74-11050 *
US-PATENT-3,770,903 ..... c 35 N74-11283 *
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US-PATENT-3,771,040 ..... c 33 N74-11049 *
US-PATENT-3,771,074 ..... c 36 N74-11313 *
US-PATENT-3,771,959 ..... c 25 N74-12813 *
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US-PATENT-3,772,216 ..... c 27 N74-12812 *
US-PATENT-3,772,220 ..... c 27 N74-12814 *
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US-PATENT-3,772,418 ..... c 31 N74-13177 *
US-PATENT-3,772,691 ..... c 32 N74-12912 *
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US-PATENT-3,773,913 ..... c 46 N74-13011 *
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US-PATENT-3,776,028 ..... c 35 N74-13129 *
US-PATENT-3,776,432 ..... c 37 N74-13178 *
US-PATENT-3,776,455 ..... c 04 N74-13420 *
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US-PATENT-3,777,605 ..... c 39 N74-13131 *
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US-PATENT-3,777,942 ..... c 54 N74-12779 *
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US-PATENT-3,778,786 ..... c 60 N74-12888 *
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US-PATENT-3,780,424 ..... c 44 N74-14784 *
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US-PATENT-3,781,549 ..... c 35 N74-15090 *
US-PATENT-3,781,562 ..... c 35 N74-15091 *
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US-PATENT-3,782,205 ..... c 35 N74-15094 *
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US-PATENT-3,782,699 ..... c 35 N74-15126 *
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US-PATENT-3,788,163 ..... c 37 N74-18127 *
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US-PATENT-3,799,813 ..... c 76 N74-20329 *
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US-PATENT-3,800,227 ..... c 32 N74-20809 *
US-PATENT-3,800,237 ..... c 32 N74-19788 *
US-PATENT-3,800,253 ..... c 37 N74-21056 *
US-PATENT-3,801,617 ..... c 37 N74-21058 *
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US-PATENT-3,803,617 ..... c 32 N74-20863 *
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US-PATENT-3,804,506 ..... c 33 N74-20861 *
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US-PATENT-3,804,703 ..... c 37 N74-21063 *
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US-PATENT-3,805,622 ..... c 35 N74-21062 *
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US-PATENT-3,814,939 ..... c 25 N74-26947 *
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US-PATENT-3,821,546 ..... c 33 N74-27682 *
US-PATENT-3,821,556 ..... c 74 N74-27866 *
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US-PATENT-3,827,807 ..... c 89 N74-30886 *
US-PATENT-3,828,137 ..... c 32 N74-30524 *
US-PATENT-3,828,138 ..... c 32 N74-30523 *
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US-PATENT-3,856,402 ..... c 36 N75-15028 *
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US-PATENT-3,857,045 ..... c 33 N75-14957 *
US-PATENT-3,859,119 ..... c 36 N75-15029 *
US-PATENT-3,859,714 ..... c 37 N75-15992 *
US-PATENT-3,859,714 ..... c 24 N79-25143 *
US-PATENT-3,859,736 ..... c 09 N75-15662 *
US-PATENT-3,859,840 ..... c 35 N75-15932 *
US-PATENT-3,859,845 ..... c 35 N75-15931 *

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US-PATENT-3,860,393 ..... c 25 N76-18245 *
US-PATENT-3,860,858 ..... c 33 N75-15874 *
US-PATENT-3,860,921 ..... c 32 N75-15854 *
US-PATENT-3,860,946 ..... c 33 N79-11314 *
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US-PATENT-3,864,239 ..... c 37 N75-19684 *
US-PATENT-3,864,542 ..... c 37 N75-19683 *
US-PATENT-3,864,797 ..... c 20 N75-18310 *
US-PATENT-3,864,953 ..... c 35 N75-19615 *
US-PATENT-3,864,960 ..... c 35 N75-19612 *
US-PATENT-3,865,442 ..... c 37 N75-18574 *
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US-PATENT-3,866,022 ..... c 33 N75-19519 *
US-PATENT-3,866,114 ..... c 33 N75-18477 *
US-PATENT-3,866,128 ..... c 33 N75-19515 *
US-PATENT-3,866,210 ..... c 33 N75-19517 *
US-PATENT-3,866,233 ..... c 33 N75-19516 *
US-PATENT-3,866,863 ..... c 18 N75-19329 *
US-PATENT-3,867,677 ..... c 33 N75-19524 *
US-PATENT-3,868,591 ..... c 36 N75-19655 *
US-PATENT-3,868,830 ..... c 77 N75-20139 *
US-PATENT-3,868,856 ..... c 35 N75-19614 *
US-PATENT-3,869,151 ..... c 37 N75-19686 *
US-PATENT-3,869,160 ..... c 37 N75-19685 *
US-PATENT-3,869,210 ..... c 36 N75-19653 *
US-PATENT-3,869,212 ..... c 35 N75-19613 *
US-PATENT-3,869,597 ..... c 77 N75-20140 *
US-PATENT-3,869,615 ..... c 35 N75-19616 *
US-PATENT-3,869,624 ..... c 33 N75-18479 *
US-PATENT-3,869,659 ..... c 33 N75-19522 *
US-PATENT-3,869,667 ..... c 33 N75-19521 *
US-PATENT-3,869,676 ..... c 33 N75-19520 *
US-PATENT-3,869,680 ..... c 36 N75-19654 *
US-PATENT-3,869,779 ..... c 26 N75-19408 *
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US-PATENT-3,874,635 ..... c 37 N75-25185 *
US-PATENT-3,874,677 ..... c 37 N75-21631 *
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US-PATENT-3,875,435 ..... c 20 N75-24837 *
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US-PATENT-3,883,215 ..... c 35 N75-25124 *
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US-PATENT-3,883,689 ..... c 35 N75-25123 *
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US-PATENT-3,887,365 ..... c 37 N75-26371 *
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US-PATENT-3,889,182 ..... c 33 N75-26245 *
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US-PATENT-3,889,264 ..... c 32 N75-26194 *
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US-PATENT-3,910,039 ..... c 20 N76-14191 *
US-PATENT-3,910,257 ..... c 52 N76-14757 *
US-PATENT-3,910,307 ..... c 37 N76-14463 *
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US-PATENT-3,912,541 ..... c 44 N76-14601 *
US-PATENT-3,912,999 ..... c 44 N76-18643 *
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US-PATENT-3,915,148 ..... c 44 N76-14602 *
US-PATENT-3,915,416 ..... c 15 N76-14158 *
US-PATENT-3,915,482 ..... c 37 N76-14460 *
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US-PATENT-3,924,137 ..... c 72 N76-15860 *
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US-PATENT-3,927,408 ..... c 32 N76-15329 *
US-PATENT-3,928,708 ..... c 27 N76-16230 *
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US-PATENT-3,931,462 ..... c 45 N76-17656 *
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US-PATENT-3,938,956 ..... c 35 N76-18403 *
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US-PATENT-3,943,442 ..... c 76 N76-20994 *
US-PATENT-3,943,763 ..... c 04 N76-20114 *
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US-PATENT-4, 359,503 ..... c 24 N83-33950 *
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US-PATENT-4,000,929 ..... c 37 N77-17464 *
US-PATENT-4,001,552 ..... c 38 N77-17495 *
US-PATENT-4,001,602 ..... c 33 N77-17354 *
US-PATENT-4,003,004 ..... c 33 N77-17351 *
US-PATENT-4,003,084 ..... c 35 N77-17426 *
US-PATENT-4,003,257 ..... c 23 N77-17161 *
US-PATENT-4,004,292 ..... c 74 N77-18893 *
US-PATENT-4,005,574 ..... c 07 N77-17059 *
US-PATENT-4,006,631 ..... c 04 N77-19056 *
US-PATENT-4,006,999 ..... c 24 N77-19170 *
US-PATENT-4,007,430 ..... c 36 N77-19416 *
US-PATENT-4,007,434 ..... c 32 N77-18307 *
US-PATENT-4,007,601 ..... c 34 N77-19353 *
US-PATENT-4,007,623 ..... c 35 N77-18417 *
US-PATENT-4,007,891 ..... c 07 N77-18154 *
US-PATENT-4,008,348 ..... c 34 N77-18382 *
US-PATENT-4,008,407 ..... c 73 N77-18891 *
US-PATENT-4,010,455 ..... c 37 N77-19458 *
US-PATENT-4,010,455 ..... c 37 N78-31426 *
US-PATENT-4,011,719 ..... c 20 N77-20162 *
US-PATENT-4,011,756 ..... c 35 N77-20400 *
US-PATENT-4,011,854 ..... c 35 N77-20401 *
US-PATENT-4,012,018 ..... c 35 N77-20399 *
US-PATENT-4,012,123 ..... c 74 N77-20882 *
US-PATENT-4,012,237 ..... c 26 N77-20201 *
US-PATENT-4,012,696 ..... c 32 N77-20289 *
US-PATENT-4,014,745 ..... c 51 N77-22794 *
US-PATENT-4,014,798 ..... c 25 N81-17187 *
US-PATENT-4,017,959 ..... c 37 N77-23482 *
US-PATENT-4,018,080 ..... c 35 N77-22450 *
US-PATENT-4,018,085 ..... c 35 N77-22449 *
US-PATENT-4,018,092 ..... c 37 N77-22482 *
US-PATENT-4,018,409 ..... c 37 N77-23483 *
US-PATENT-4,018,423 ..... c 54 N77-21844 *
US-PATENT-4,018,532 ..... c 74 N77-22951 *
US-PATENT-4,018,533 ..... c 74 N77-22950 *
US-PATENT-4,018,649 ..... c 51 N77-25769 *
US-PATENT-4,018,971 ..... c 44 N77-22606 *
US-PATENT-4,019,179 ..... c 32 N77-21267 *
US-PATENT-4,019,868 ..... c 44 N77-22607 *
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US-PATENT-4,023,266 ..... c 33 N77-26385 *
US-PATENT-4,025,327 ..... c 35 N77-24455 *
US-PATENT-4,025,783 ..... c 74 N77-26942 *
US-PATENT-4,025,866 ..... c 33 N77-24375 *
US-PATENT-4,025,875 ..... c 36 N77-25499 *
US-PATENT-4,025,876 ..... c 71 N77-26919 *
US-PATENT-4,025,891 ..... c 35 N77-24454 *
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US-PATENT-4,025,964 ..... c 52 N77-25772 *
US-PATENT-4,026,527 ..... c 34 N77-24423 *
US-PATENT-4,026,655 ..... c 36 N77-25501 *
US-PATENT-4,027,212 ..... c 33 N77-26386 *
US-PATENT-4,027,265 ..... c 32 N77-24331 *
US-PATENT-4,027,273 ..... c 36 N77-25502 *
US-PATENT-4,027,494 ..... c 35 N78-12390 *
US-PATENT-4,027,524 ..... c 09 N77-27131 *
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US-PATENT-4,029,470 ..... c 51 N77-27677 *
US-PATENT-4,029,500 ..... c 24 N77-27187 *
US-PATENT-4,029,838 ..... c 24 N77-27188 *
US-PATENT-4,030,047 ..... c 35 N77-27366 *
US-PATENT-4,030,348 ..... c 39 N78-10493 *
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US-PATENT-4,032,089 ..... c 27 N81-14077 *
US-PATENT-4,033,119 ..... c 07 N77-28118 *
US-PATENT-4,033,133 ..... c 28 N80-10374 *
US-PATENT-4,033,182 ..... c 39 N77-28511 *
US-PATENT-4,033,286 ..... c 25 N79-28253 *
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US-PATENT-4,033,334 ..... c 52 N77-28717 *
US-PATENT-4,033,349 ..... c 52 N77-28716 *
US-PATENT-4,033,479 ..... c 37 N77-28487 *
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US-PATENT-4,033,504 ..... c 26 N77-28265 *
US-PATENT-4,033,705 ..... c 07 N77-27116 *
US-PATENT-4,033,882 ..... c 32 N77-28346 *
US-PATENT-4,035,037 ..... c 37 N77-28486 *
US-PATENT-4,035,062 ..... c 74 N77-28932 *
US-PATENT-4,035,065 ..... c 74 N77-28933 *
US-PATENT-4,038,705 ..... c 54 N77-30749 *
US-PATENT-4,039-489 ..... c 27 N77-31308 *
US-PATENT-4,039-946 ..... c 35 N77-30436 *
US-PATENT-4,039,000 ..... c 34 N77-30399 *
US-PATENT-4,039,347 ..... c 27 N77-30237 *
US-PATENT-4,039,754 ..... c 32 N77-30309 *
US-PATENT-4,039,925 ..... c 33 N77-30365 *
US-PATENT-4,040,041 ..... c 33 N77-31404 *
US-PATENT-4,040,750 ..... c 35 N77-31465 *
US-PATENT-4,040,867 ..... c 44 N77-31601 *
US-PATENT-4,040,940 ..... c 37 N80-14397 *
US-PATENT-4,041,233 ..... c 27 N77-30236 *
US-PATENT-4,041,391 ..... c 32 N77-30308 *
US-PATENT-4,041,697 ..... c 37 N78-10467 *
US-PATENT-4,041,910 ..... c 37 N77-31497 *
US-PATENT-4,042,926 ..... c 32 N77-31350 *
US-PATENT-4,043,668 ..... c 35 N84-33766 *
US-PATENT-4,043,674 ..... c 36 N77-32478 *
US-PATENT-4,044,753 ..... c 44 N77-32582 *
US-PATENT-4,044,821 ..... c 44 N77-32581 *
US-PATENT-4,045,063 ..... c 37 N77-32499 *
US-PATENT-4,045,149 ..... c 07 N77-32148 *
US-PATENT-4,045,247 ..... c 35 N77-32454 *
US-PATENT-4,045,255 ..... c 26 N77-32279 *
US-PATENT-4,045,315 ..... c 44 N77-32580 *
US-PATENT-4,045,359 ..... c 25 N77-32255 *
US-PATENT-4,045,728 ..... c 35 N77-32455 *
US-PATENT-4,045,792 ..... c 60 N77-32731 *
US-PATENT-4,045,795 ..... c 32 N77-32342 *
US-PATENT-4,046,012 ..... c 35 N77-32456 *
US-PATENT-4,046,190 ..... c 34 N77-32413 *
US-PATENT-4,046,262 ..... c 54 N77-32721 *
US-PATENT-4,046,434 ..... c 37 N77-32500 *
US-PATENT-4,046,435 ..... c 37 N77-32501 *
US-PATENT-4,046,462 ..... c 44 N77-32583 *
US-PATENT-4,046,529 ..... c 54 N77-32722 *
US-PATENT-4,046,560 ..... c 26 N77-32280 *
US-PATENT-4,046,617 ..... c 76 N77-32919 *
US-PATENT-4,046,619 ..... c 27 N77-32308 *
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US-PATENT-4,051,834 ..... c 44 N78-10554 *
US-PATENT-4,051,877 ..... c 35 N78-10428 *
US-PATENT-4,052,144 ..... c 25 N78-10224 *
US-PATENT-4,052,181 ..... c 71 N78-10837 *
US-PATENT-4,052,302 ..... c 25 N78-10225 *
US-PATENT-4,052,523 ..... c 24 N78-10214 *
US-PATENT-4,052,614 ..... c 35 N78-10429 *
US-PATENT-4,052,648 ..... c 33 N78-10376 *
US-PATENT-4,052,659 ..... c 33 N78-10377 *
US-PATENT-4,052,666 ..... c 43 N78-10529 *
US-PATENT-4,052,705 ..... c 60 N78-10709 *
US-PATENT-4,053,229 ..... c 74 N78-13874 *
US-PATENT-4,053,231 ..... c 35 N78-18391 *
US-PATENT-4,053,918 ..... c 44 N78-13526 *
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US-PATENT-4,055,041 ..... c 07 N78-18066 *
US-PATENT-4,055,072 ..... c 35 N78-19465 *
US-PATENT-4,055,089 ..... c 35 N78-18390 *
US-PATENT-4,055,147 ..... c 35 N78-19466 *
US-PATENT-4,055,416 ..... c 26 N78-18182 *
US-PATENT-4,055,447 ..... c 26 N78-18183 *
US-PATENT-4,055,686 ..... c 37 N78-13436 *
US-PATENT-4,055,705 ..... c 34 N78-18355 *
US-PATENT-4,055,707 ..... c 44 N78-19599 *
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US-PATENT-4,055,847 ..... c 33 N78-13320 *
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US-PATENT-4,061,041 ..... c 71 N78-14867 *
US-PATENT-4,061,146 ..... c 52 N78-14773 *
US-PATENT-4,061,190 ..... c 43 N78-14452 *
US-PATENT-4,061,427 ..... c 36 N78-14380 *
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US-PATENT-4,061,570 ..... c 54 N78-14784 *
US-PATENT-4,061,577 ..... c 74 N78-14889 *
US-PATENT-4,061,579 ..... c 24 N78-14096 *
US-PATENT-4,061,812 ..... c 24 N78-15180 *
US-PATENT-4,061,834 ..... c 27 N78-14164 *
US-PATENT-4,061,856 ..... c 27 N78-15276 *
US-PATENT-4,061,955 ..... c 44 N78-14625 *
US-PATENT-4,061,974 ..... c 32 N78-15323 *
US-PATENT-4,062,227 ..... c 39 N78-15512 *
US-PATENT-4,062,245 ..... c 37 N78-16369 *
US-PATENT-4,062,347 ..... c 44 N78-15560 *
US-PATENT-4,062,650 ..... c 25 N78-15210 *
US-PATENT-4,062,996 ..... c 74 N78-15879 *
US-PATENT-4,063,088 ..... c 74 N78-15880 *
US-PATENT-4,063,092 ..... c 35 N78-15461 *
US-PATENT-4,063,282 ..... c 39 N78-16387 *
US-PATENT-4,063,814 ..... c 74 N78-17866 *
US-PATENT-4,063,981 ..... c 24 N78-17149 *
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US-PATENT-4,064,642 ..... c 54 N78-17675 *
US-PATENT-4,064,692 ..... c 37 N78-17384 *
US-PATENT-4,065,053 ..... c 44 N78-17460 *
US-PATENT-4,065,202 ..... c 35 N78-17357 *
US-PATENT-4,065,340 ..... c 24 N78-17150 *
US-PATENT-4,065,345 ..... c 27 N78-17205 *
US-PATENT-4,066,039 ..... c 37 N78-17383 *
US-PATENT-4,067,015 ..... c 17 N78-17140 *
US-PATENT-4,067,043 ..... c 74 N78-17865 *
US-PATENT-4,067,653 ..... c 74 N78-17867 *
US-PATENT-4,067,742 ..... c 27 N78-17206 *
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US-PATENT-4,068,495 ..... c 31 N78-17237 *
US-PATENT-4,068,763 ..... c 54 N78-17676 *
US-PATENT-4,069,028 ..... c 34 N78-17335 *
US-PATENT-4,069,212 ..... c 27 N78-17213 *
US-PATENT-4,069,478 ..... c 60 N78-17691 *
US-PATENT-4,069,661 ..... c 07 N78-18067 *
US-PATENT-4,070,574 ..... c 74 N78-18905 *
US-PATENT-4,072,532 ..... c 27 N78-19302 *
US-PATENT-4,075,057 ..... c 73 N78-19920 *
US-PATENT-4,077,231 ..... c 31 N78-25256 *
US-PATENT-4,077,678 ..... c 44 N78-24608 *
US-PATENT-4,077,788 ..... c 28 N78-24365 *
US-PATENT-4,077,788 ..... c 28 N81-14103 *
US-PATENT-4,077,813 ..... c 26 N78-24333 *
US-PATENT-4,077,818 ..... c 44 N78-24609 *
US-PATENT-4,077,921 ..... c 24 N78-24290 *
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US-PATENT-4,078,175 ..... c 76 N78-24950 *
US-PATENT-4,078,290 ..... c 37 N78-24544 *
US-PATENT-4,078,378 ..... c 37 N78-24545 *
US-PATENT-4,079,268 ..... c 32 N78-24391 *
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US-PATENT-4,082,001 ..... c 35 N78-24515 *
US-PATENT-4,082,569 ..... c 44 N78-25527 *
US-PATENT-4,083,097 ..... c 44 N78-25528 *
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US-PATENT-4,083,380 ..... c 37 N78-25426 *
US-PATENT-4,083,520 ..... c 15 N78-25119 *
US-PATENT-4,083,765 ..... c 35 N78-25391 *
US-PATENT-4,084,124 ..... c 44 N78-25531 *
US-PATENT-4,084,132 ..... c 33 N78-25319 *
US-PATENT-4,084,612 ..... c 34 N78-25351 *

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US-PATENT-4,085,241 ..... c 44 N78-25530 *
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US-PATENT-4,087,975 ..... c 44 N78-32542 *
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US-PATENT-4,088,094 ..... c 51 N78-27733 *
US-PATENT-4,088,270 ..... c 07 N78-27121 *
US-PATENT-4,088,291 ..... c 37 N78-27425 *
US-PATENT-4,088,312 ..... c 37 N78-27423 *
US-PATENT-4,088,408 ..... c 74 N78-27904 *
US-PATENT-4,088,532 ..... c 25 N78-27226 *
US-PATENT-4,088,806 ..... c 24 N78-27180 *
US-PATENT-4,088,926 ..... c 75 N78-27913 *
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US-PATENT-4,090,213 ..... c 44 N80-29835 *
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US-PATENT-4,091,464 ..... c 54 N78-31735 *
US-PATENT-4,091,464 ..... c 54 N79-24651 *
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US-PATENT-4,091,800 ..... c 44 N78-31525 *
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US-PATENT-4,092,274 ..... c 27 N78-31232 *
US-PATENT-4,092,466 ..... c 27 N78-32256 *
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US-PATENT-4,092,617 ..... c 33 N78-32340 *
US-PATENT-4,092,633 ..... c 54 N78-32720 *
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US-PATENT-4,094,862 ..... c 27 N78-32261 *
US-PATENT-4,094,943 ..... c 27 N78-32262 *
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US-PATENT-4,097,194 ..... c 07 N78-33101 *
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US-PATENT-4,100,531 ..... c 32 N79-10263 *
US-PATENT-4,101,195 ..... c 89 N79-10969 *
US-PATENT-4,101,644 ..... c 25 N79-10162 *
US-PATENT-4,101,780 ..... c 35 N79-10389 *
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US-PATENT-4,105,261 ..... c 37 N79-11404 *
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US-PATENT-4,106,587 ..... c 71 N79-14871 *
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US-PATENT-4,110,703 ..... c 36 N79-18307 *
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US-PATENT-4,111,058 ..... c 35 N79-14347 *
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US-PATENT-4,111,718 ..... c 35 N79-14346 *
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US-PATENT-4,111,851 ..... c 24 N79-14156 *
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US-PATENT-4,122,833 ..... c 44 N79-11471 *
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US-PATENT-4,124,330 ..... c 07 N79-14095 *
US-PATENT-4,124,732 ..... c 27 N79-12221 *
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US-PATENT-4,132,069 ..... c 07 N79-14096 *
US-PATENT-4,132,130 ..... c 44 N79-14527 *
US-PATENT-4,132,375 ..... c 08 N79-14108 *
US-PATENT-4,132,594 ..... c 52 N79-14749 *
US-PATENT-4,132,599 ..... c 52 N79-14750 *
US-PATENT-4,132,829 ..... c 27 N79-14214 *
US-PATENT-4,132,940 ..... c 35 N79-14348 *
US-PATENT-4,132,989 ..... c 32 N79-14268 *
US-PATENT-4,133,697 ..... c 44 N79-17314 *
US-PATENT-4,133,697 ..... c 44 N80-14474 *
US-PATENT-4,133,941 ..... c 44 N79-17313 *
US-PATENT-4,133,941 ..... c 25 N82-21268 *
US-PATENT-4,134,447 ..... c 31 N79-17029 *
US-PATENT-4,134,683 ..... c 43 N79-17288 *
US-PATENT-4,134,744 ..... c 35 N79-17192 *
US-PATENT-4,134,786 ..... c 85 N79-17747 *
US-PATENT-4,135,019 ..... c 24 N79-16915 *
US-PATENT-4,135,127 ..... c 33 N79-17133 *
US-PATENT-4,135,290 ..... c 44 N79-18444 *
US-PATENT-4,135,367 ..... c 44 N79-18443 *
US-PATENT-4,135,817 ..... c 35 N79-18296 *
US-PATENT-4,135,851 ..... c 37 N79-18318 *
US-PATENT-4,135,851 ..... c 37 N80-26658 *
US-PATENT-4,135,851 ..... c 37 N82-19540 *
US-PATENT-4,136,211 ..... c 24 N79-17916 *
US-PATENT-4,137,010 ..... c 05 N79-17847 *
US-PATENT-4,137,365 ..... c 27 N79-18052 *
US-PATENT-4,139,291 ..... c 74 N79-20856 *
US-PATENT-4,139,806 ..... c 71 N79-20827 *
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US-PATENT-4,139,862 ..... c 32 N79-20297 *
US-PATENT-4,140,972 ..... c 32 N79-20296 *
US-PATENT-4,141,219 ..... c 34 N79-20335 *
US-PATENT-4,141,224 ..... c 34 N79-20336 *
US-PATENT-4,141,259 ..... c 37 N79-20377 *
US-PATENT-4,142,101 ..... c 74 N79-20857 *
US-PATENT-4,142,119 ..... c 33 N79-20314 *
US-PATENT-4,143,314 ..... c 20 N79-20179 *
US-PATENT-4,145,058 ..... c 37 N79-22475 *
US-PATENT-4,145,255 ..... c 25 N79-22235 *
US-PATENT-4,145,524 ..... c 27 N79-22300 *
US-PATENT-4,145,933 ..... c 39 N79-22537 *
US-PATENT-4,146,180 ..... c 37 N79-22474 *
US-PATENT-4,146,367 ..... c 25 N81-33246 *
US-PATENT-4,146,409 ..... c 26 N79-22271 *
US-PATENT-4,148,031 ..... c 32 N79-24210 *
US-PATENT-4,148,295 ..... c 44 N79-23481 *
US-PATENT-4,148,375 ..... c 46 N79-22679 *
US-PATENT-4,148,452 ..... c 08 N79-23097 *
US-PATENT-4,148,962 ..... c 24 N79-24062 *
US-PATENT-4,149,034 ..... c 71 N79-23753 *
US-PATENT-4,149,233 ..... c 33 N79-24257 *
US-PATENT-4,149,278 ..... c 54 N79-24652 *
US-PATENT-4,149,423 ..... c 32 N79-24203 *
US-PATENT-4,149,521 ..... c 44 N79-24433 *
US-PATENT-4,149,665 ..... c 44 N79-24431 *
US-PATENT-4,149,817 ..... c 44 N79-24432 *
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US-PATENT-4,151,086 ..... c 34 N79-24285 *
US-PATENT-4,151,456 ..... c 33 N79-23345 *
US-PATENT-4,151,612 ..... c 54 N79-24651 *
US-PATENT-4,151,800 ..... c 24 N79-25142 *
US-PATENT-4,152,194 ..... c 76 N79-23798 *
US-PATENT-4,153,134 ..... c 46 N79-23555 *
US-PATENT-4,153,476 ..... c 44 N79-25482 *
US-PATENT-4,153,818 ..... c 32 N79-23310 *
US-PATENT-4,154,084 ..... c 43 N79-25443 *
US-PATENT-4,154,228 ..... c 52 N79-27836 *
US-PATENT-4,154,230 ..... c 52 N79-26771 *
US-PATENT-4,154,256 ..... c 05 N79-24976 *
US-PATENT-4,154,501 ..... c 33 N81-29342 *
US-PATENT-4,154,912 ..... c 44 N79-25481 *
US-PATENT-4,155,475 ..... c 24 N79-25143 *
US-PATENT-4,156,309 ..... c 44 N79-26475 *
US-PATENT-4,156,548 ..... c 35 N79-26372 *
US-PATENT-4,156,752 ..... c 15 N79-26100 *
US-PATENT-4,156,971 ..... c 43 N79-26439 *
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US-PATENT-4,158,775 ..... c 72 N80-14877 *
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US-PATENT-4,162,701 ..... c 34 N79-31523 *
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US-PATENT-4,163,678 ..... c 44 N79-31752 *
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US-PATENT-4,166,170 ..... c 27 N81-14078 *
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US-PATENT-4,167,111 ..... c 46 N80-10709 *
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US-PATENT-4,170,987 ..... c 52 N81-27783 *
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US-PATENT-4,173,820 ..... c 44 N80-14474 *
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US-PATENT-4,176,360 ..... c 18 N80-14183 *
US-PATENT-4,176,662 ..... c 52 N80-16725 *
US-PATENT-4,176,950 ..... c 36 N80-16321 *
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US-PATENT-4,184,111 ..... c 44 N80-18551 *
US-PATENT-4,184,149 ..... c 06 N80-18036 *
US-PATENT-4,184,155 ..... c 43 N80-18498 *
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US-PATENT-4,184,472 ..... c 76 N80-18951 *
US-PATENT-4,184,491 ..... c 52 N80-18690 *

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US-PATENT-4,190,626 ..... c 24 N81-29163 *
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US-PATENT-4,191,893 ..... c 44 N80-29834 *
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US-PATENT-4,195,279 ..... c 35 N80-20560 *
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US-PATENT-4,196,619 ..... c 46 N80-24906 *
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US-PATENT-4,206,713 ..... c 31 N81-15154 *
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US-PATENT-4,215,592 ..... c 37 N80-32716 *
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US-PATENT-4,216,542 ..... c 33 N81-15192 *
US-PATENT-4,217,165 ..... c 76 N80-32245 *
US-PATENT-4,217,633 ..... c 44 N81-12542 *
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US-PATENT-4,277,721 ..... c 33 N82-24415 *
US-PATENT-4,278,220 ..... c 07 N82-26293 *
US-PATENT-4,278,351 ..... c 74 N81-29963 *
US-PATENT-4,278,830 ..... c 44 N81-29525 *
US-PATENT-4,278,830 ..... c 44 N82-28780 *
US-PATENT-4,278,978 ..... c 32 N81-29308 *
US-PATENT-4,279-018 ..... c 33 N81-33405 *
US-PATENT-4,279,001 ..... c 33 N82-24416 *
US-PATENT-4,279,632 ..... c 31 N81-33319 *
US-PATENT-4,279,906 ..... c 52 N81-29764 *
US-PATENT-4,280,141 ..... c 33 N81-33403 *
US-PATENT-4,280,689 ..... c 37 N81-33482 *
US-PATENT-4,280,766 ..... c 35 N81-33448 *
US-PATENT-4,281,102 ..... c 27 N81-29229 *
US-PATENT-4,281,384 ..... c 18 N81-29152 *
US-PATENT-4,281,708 ..... c 33 N82-24419 *
US-PATENT-4,282,479 ..... c 33 N82-24420 *
US-PATENT-4,282,525 ..... c 46 N82-12685 *
US-PATENT-4,282,752 ..... c 44 N82-16474 *
US-PATENT-4,283,705 ..... c 06 N82-16075 *
US-PATENT-4,283,995 ..... c 37 N81-32510 *
US-PATENT-4,284,034 ..... c 51 N81-32829 *
US-PATENT-4,284,461 ..... c 27 N82-11206 *
US-PATENT-4,284,682 ..... c 27 N82-16238 *
US-PATENT-4,286,209 ..... c 35 N82-11431 *
US-PATENT-4,286,460 ..... c 09 N82-11088 *
US-PATENT-4,286,542 ..... c 37 N82-12441 *
US-PATENT-4,287,152 ..... c 35 N82-11432 *
US-PATENT-4,287,518 ..... c 32 N82-11336 *
US-PATENT-4,287,578 ..... c 32 N82-18443 *
US-PATENT-4,287,606 ..... c 74 N82-19029 *
US-PATENT-4,287,838 ..... c 25 N82-11144 *
US-PATENT-4,288,585 ..... c 27 N82-18389 *
US-PATENT-4,288,982 ..... c 20 N82-18314 *
US-PATENT-4,290,612 ..... c 37 N82-16408 *
US-PATENT-4,290,779 ..... c 44 N82-16475 *
US-PATENT-4,291,294 ..... c 04 N82-16059 *
US-PATENT-4,291,887 ..... c 37 N82-12442 *
US-PATENT-4,292,375 ..... c 24 N82-24296 *
US-PATENT-4,292,634 ..... c 32 N82-12297 *
US-PATENT-4,293,522 ..... c 25 N82-12166 *
US-PATENT-4,294,261 ..... c 52 N82-11770 *
US-PATENT-4,294,264 ..... c 52 N82-22875 *
US-PATENT-4,295,111 ..... c 33 N82-11357 *
US-PATENT-4,295,140 ..... c 35 N82-15381 *
US-PATENT-4,295,786 ..... c 37 N82-19540 *
US-PATENT-4,298,833 ..... c 33 N82-18493 *
US-PATENT-4,298,926 ..... c 33 N82-18494 *
US-PATENT-4,298,987 ..... c 60 N82-16747 *
US-PATENT-4,299,492 ..... c 36 N82-16396 *
US-PATENT-4,300,106 ..... c 36 N82-13415 *
US-PATENT-4,300,159 ..... c 43 N82-13465 *
US-PATENT-4,300,656 ..... c 71 N82-16800 *
US-PATENT-4,300,723 ..... c 34 N82-13376 *
US-PATENT-4,301,740 ..... c 37 N82-21587 *
US-PATENT-4,302,223 ..... c 25 N82-21269 *
US-PATENT-4,302,734 ..... c 33 N82-16340 *
US-PATENT-4,303,961 ..... c 28 N82-18401 *
US-PATENT-4,304,219 ..... c 44 N82-18686 *
US-PATENT-4,304,320 ..... c 37 N82-18601 *
US-PATENT-4,305,205 ..... c 37 N82-26672 *
US-PATENT-4,307,024 ..... c 25 N82-24312 *

US-PATENT-4,307,510 ..... c 60 N82-24839 *
US-PATENT-4,307,575 ..... c 44 N82-26776 *
US-PATENT-4,307,856 ..... c 05 N82-26277 *
US-PATENT-4,308,309 ..... c 27 N82-24339 *
US-PATENT-4,308,868 ..... c 52 N82-29863 *
US-PATENT-4,309,039 ..... c 37 N82-24490 *
US-PATENT-4,309,146 ..... c 44 N82-24639 *
US-PATENT-4,309,372 ..... c 25 N82-21268 *
US-PATENT-4,310,049 ..... c 25 N82-23282 *
US-PATENT-4,310,132 ..... c 24 N82-26384 *
US-PATENT-4,310,574 ..... c 27 N82-28441 *
US-PATENT-4,310,906 ..... c 33 N82-26572 *
US-PATENT-4,311,055 ..... c 54 N82-26987 *
US-PATENT-4,311,057 ..... c 37 N82-24493 *
US-PATENT-4,311,378 ..... c 35 N82-26628 *
US-PATENT-4,311,615 ..... c 25 N82-26396 *
US-PATENT-4,311,870 ..... c 44 N82-26777 *
US-PATENT-4,312,292 ..... c 37 N82-24492 *
US-PATENT-4,313,077 ..... c 33 N82-26569 *
US-PATENT-4,313,103 ..... c 33 N82-26570 *
US-PATENT-4,313,291 ..... c 09 N82-29330 *
US-PATENT-4,313,726 ..... c 09 N82-24212 *
US-PATENT-4,313,745 ..... c 27 N82-28442 *
US-PATENT-4,313,777 ..... c 33 N82-26571 *
US-PATENT-4,314,984 ..... c 25 N82-28368 *
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US-PATENT-4,315,197 ..... c 33 N82-24421 *
US-PATENT-4,315,266 ..... c 32 N82-27558 *
US-PATENT-4,316,035 ..... c 23 N82-28353 *
US-PATENT-4,317,102 ..... c 35 N82-24470 *
US-PATENT-4,319,133 ..... c 33 N82-28545 *
US-PATENT-4,320,290 ..... c 74 N82-24072 *
US-PATENT-4,320,397 ..... c 32 N82-23376 *
US-PATENT-4,320,911 ..... c 37 N82-24494 *
US-PATENT-4,321,099 ..... c 44 N82-28780 *
US-PATENT-4,321,572 ..... c 33 N82-24422 *
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US-PATENT-4,325,707 ..... c 25 N82-29371 *
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US-PATENT-4,326,685 ..... c 04 N82-23231 *
US-PATENT-4,327,150 ..... c 27 N82-24340 *
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US-PATENT-4,329,385 ..... c 27 N82-28440 *
US-PATENT-4,330,100 ..... c 05 N82-28279 *
US-PATENT-4,330,359 ..... c 76 N82-30105 *
US-PATENT-4,330,572 ..... c 27 N82-33520 *
US-PATENT-4,331,422 ..... c 52 N82-29862 *
US-PATENT-4,331,742 ..... c 44 N82-29710 *
US-PATENT-4,331,746 ..... c 44 N82-29708 *
US-PATENT-4,331,873 ..... c 44 N82-32841 *
US-PATENT-4,331,956 ..... c 33 N82-29538 *
US-PATENT-4,332,441 ..... c 36 N82-29589 *
US-PATENT-4,335,190 ..... c 27 N83-31855 *
US-PATENT-4,335,196 ..... c 44 N83-13579 *
US-PATENT-4,335,206 ..... c 35 N82-28604 *
US-PATENT-4,335,503 ..... c 44 N82-29709 *
US-PATENT-4,336,117 ..... c 26 N82-29415 *
US-PATENT-4,336,276 ..... c 27 N82-29453 *
US-PATENT-4,336,616 ..... c 33 N82-29539 *
US-PATENT-4,338,061 ..... c 07 N83-31603 *
US-PATENT-4,338,368 ..... c 27 N82-29456 *
US-PATENT-4,338,371 ..... c 24 N82-29362 *
US-PATENT-4,338,371 ..... c 54 N84-11758 *
US-PATENT-4,338,516 ..... c 74 N82-30071 *
US-PATENT-4,338,568 ..... c 33 N83-31954 *
US-PATENT-4,340,318 ..... c 37 N82-32732 *
US-PATENT-4,340,425 ..... c 26 N82-31505 *
US-PATENT-4,341,012 ..... c 35 N82-31659 *
US-PATENT-4,341,843 ..... c 26 N82-30371 *
US-PATENT-4,341,918 ..... c 44 N82-31764 *
US-PATENT-4,341,925 ..... c 32 N82-31583 *
US-PATENT-4,343,287 ..... c 37 N82-32730 *
US-PATENT-4,343,447 ..... c 08 N82-32373 *
US-PATENT-4,343,506 ..... c 85 N82-33288 *
US-PATENT-4,343,584 ..... c 37 N82-32731 *
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US-PATENT-4,344,591 ..... c 24 N82-32417 *
US-PATENT-4,344,787 ..... c 31 N83-31896 *
US-PATENT-4,344,996 ..... c 27 N82-33521 *
US-PATENT-4,345,153 ..... c 35 N82-32659 *
US-PATENT-4,346,595 ..... c 06 N83-10040 *
US-PATENT-4,346,595 ..... c 06 N84-34443 *
US-PATENT-4,346,715 ..... c 52 N82-33996 *
US-PATENT-4,346,754 ..... c 34 N83-34221 *
US-PATENT-4,346,990 ..... c 36 N82-32712 *
US-PATENT-4,347,613 ..... c 36 N83-10417 *
US-PATENT-4,349,424 ..... c 24 N83-10117 *
US-PATENT-4,349,424 ..... c 70 N84-28565 *
US-PATENT-4,349,429 ..... c 25 N83-10126 *
US-PATENT-4,349,954 ..... c 26 N83-10170 *
US-PATENT-4,350,410 ..... c 74 N83-10900 *
US-PATENT-4,350,574 ..... c 44 N83-10494 *
US-PATENT-4,351,022 ..... c 33 N83-10345 *
US-PATENT-4,355,311 ..... c 32 N83-31918 *
US-PATENT-4,355,870 ..... c 74 N83-13978 *
US-PATENT-4,355,896 ..... c 47 N83-32232 *
US-PATENT-4,357,402 ..... c 25 N83-13188 *
US-PATENT-4,358,358 ..... c 25 N83-13187 *
US-PATENT-4,358,480 ..... c 24 N83-13172 *
US-PATENT-4,358,486 ..... c 24 N83-13171 *
US-PATENT-4,358,732 ..... c 33 N83-18996 *
US-PATENT-4,358,846 ..... c 32 N83-13323 *
US-PATENT-4,360,325 ..... c 44 N83-14693 *
US-PATENT-4,360,701 ..... c 44 N83-14692 *
US-PATENT-4,362,361 ..... c 74 N83-17305 *
US-PATENT-4,362,769 ..... c 27 N83-34039 *
US-PATENT-4,363,188 ..... c 51 N83-17045 *
US-PATENT-4,363,237 ..... c 71 N83-17235 *
US-PATENT-4,363,242 ..... c 33 N83-16626 *
US-PATENT-4,366,680 ..... c 31 N83-31897 *
US-PATENT-4,370,750 ..... c 34 N83-19015 *
US-PATENT-4,371,301 ..... c 37 N83-19091 *
US-PATENT-4,371,596 ..... c 44 N83-32176 *
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US-PATENT-4,372,158 ..... c 44 N83-21503 *
US-PATENT-4,372,159 ..... c 44 N83-21504 *
US-PATENT-4,372,377 ..... c 74 N83-19596 *
US-PATENT-4,372,680 ..... c 35 N83-21311 *
US-PATENT-4,373,003 ..... c 27 N83-18908 *
US-PATENT-4,373,039 ..... c 27 N83-19900 *
US-PATENT-4,373,142 ..... c 44 N83-32175 *
US-PATENT-4,373,989 ..... c 76 N83-20789 *
US-PATENT-4,374,183 ..... c 26 N83-31795 *
US-PATENT-4,374,378 ..... c 35 N83-34272 *
US-PATENT-4,375,281 ..... c 05 N83-19737 *
US-PATENT-4,375,396 ..... c 31 N83-19947 *
US-PATENT-4,375,536 ..... c 27 N83-34040 *
US-PATENT-4,375,674 ..... c 39 N83-20280 *
US-PATENT-4,376,637 ..... c 35 N84-17555 *
US-PATENT-4,376,872 ..... c 44 N83-32177 *
US-PATENT-4,377,089 ..... c 35 N83-21312 *
US-PATENT-4,377,169 ..... c 52 N83-21785 *
US-PATENT-4,377,266 ..... c 07 N83-20944 *
US-PATENT-4,377,343 ..... c 74 N83-21949 *
US-PATENT-4,377,371 ..... c 18 N83-20996 *
US-PATENT-4,377,371 ..... c 37 N84-22957 *
US-PATENT-4,377,949 ..... c 45 N83-25217 *
US-PATENT-4,378,209 ..... c 35 N83-24828 *
US-PATENT-4,378,813 ..... c 52 N83-25346 *
US-PATENT-4,379,970 ..... c 33 N83-24763 *
US-PATENT-4,380,046 ..... c 60 N83-25378 *
US-PATENT-4,381,174 ..... c 37 N83-26078 *
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US-PATENT-4,382,116 ..... c 44 N83-27344 *
US-PATENT-4,382,224 ..... c 33 N83-27126 *
US-PATENT-4,382,239 ..... c 32 N83-27085 *
US-PATENT-4,383,171 ..... c 35 N83-27184 *
US-PATENT-4,383,533 ..... c 52 N83-27578 *
US-PATENT-4,383,785 ..... c 31 N83-27058 *
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US-PATENT-4,385,113 ..... c 51 N83-27569 *
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US-PATENT-4,389,504 ..... c 27 N85-21349 *
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US-PATENT-4,391,423 ..... c 18 N83-29303 *
US-PATENT-4,391,514 ..... c 36 N83-34304 *
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US-PATENT-4,395,503 ..... c 27 N83-34043 *
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US-PATENT-4,399,415 ..... c 36 N83-35350 *
US-PATENT-4,399,515 ..... c 35 N84-14491 *
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US-PATENT-4,400,642 ..... c 76 N83-34796 *
US-PATENT-4,400,657 ..... c 33 N83-34190 *
US-PATENT-4,401,505 ..... c 76 N83-35888 *
US-PATENT-4,401,934 ..... c 33 N83-35227 *
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US-PATENT-4,402,358 ..... c 34 N83-35307 *
US-PATENT-4,402,447 ..... c 35 N83-35338 *
US-PATENT-4,402,992 ..... c 31 N83-35177 *
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US-PATENT-4,437,961 ..... c 33 N84-22884 *
US-PATENT-4,437,962 ..... c 24 N84-22695 *
US-PATENT-4,437,962 ..... c 24 N85-21267 *
US-PATENT-4,439,301 ..... c 44 N84-23019 *
US-PATENT-4,439,465 ..... c 26 N84-22734 *
US-PATENT-4,439,718 ..... c 33 N84-22886 *
US-PATENT-4,439,766 ..... c 32 N84-22820 *
US-PATENT-4,439,968 ..... c 16 N84-22601 *
US-PATENT-4,442,716 ..... c 35 N84-22934 *
US-PATENT-4,443,321 ..... c 25 N84-22709 *
US-PATENT-4,443,701 ..... c 74 N84-28590 *
US-PATENT-4,443,724 ..... c 35 N84-28017 *
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US-PATENT-4,444,464 ..... c 74 N84-23248 *
US-PATENT-4,444,972 ..... c 27 N84-22750 *
US-PATENT-4,444,979 ..... c 27 N84-22749 *
US-PATENT-4,445,118 ..... c 04 N84-22546 *
US-PATENT-4,445,378 ..... c 35 N84-22933 *
US-PATENT-4,446,199 ..... c 26 N84-33555 *
US-PATENT-4,446,396 ..... c 35 N84-22932 *
US-PATENT-4,446,459 ..... c 60 N84-28492 *
US-PATENT-4,446,556 ..... c 36 N84-28065 *
US-PATENT-4,446,757 ..... c 37 N84-28084 *
US-PATENT-4,447,251 ..... c 71 N84-28568 *
US-PATENT-4,447,943 ..... c 52 N84-28389 *
US-PATENT-4,448,408 ..... c 37 N84-28083 *
US-PATENT-4,449,370 ..... c 37 N84-33808 *
US-PATENT-4,449,400 ..... c 47 N84-28292 *
US-PATENT-4,449,514 ..... c 44 N84-28204 *
US-PATENT-4,449,894 ..... c 37 N84-28081 *
US-PATENT-4,450,268 ..... c 27 N84-27884 *
US-PATENT-4,450,447 ..... c 32 N84-27951 *
US-PATENT-4,451,017 ..... c 18 N84-27787 *
US-PATENT-4,451,496 ..... c 26 N84-27855 *
US-PATENT-4,452,088 ..... c 24 N84-27829 *
US-PATENT-4,452,412 ..... c 16 N84-27784 *
US-PATENT-4,453,163 ..... c 06 N84-27733 *
US-PATENT-4,454,611 ..... c 54 N84-28484 *
US-PATENT-4,454,649 ..... c 44 N84-28205 *
US-PATENT-4,454,753 ..... c 09 N84-27749 *
US-PATENT-4,455,418 ..... c 27 N84-27885 *
US-PATENT-4,455,418 ..... c 25 N85-28982 *
US-PATENT-4,455,532 ..... c 72 N84-28575 *
US-PATENT-4,455,680 ..... c 32 N84-27952 *
US-PATENT-4,456,208 ..... c 27 N84-27886 *
US-PATENT-4,456,708 ..... c 51 N84-28361 *
US-PATENT-4,458,418 ..... c 37 N84-28085 *
US-PATENT-4,458,554 ..... c 37 N84-28082 *
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US-PATENT-4,459,470 ..... c 27 N84-33589 *
US-PATENT-4,459,528 ..... c 33 N84-27975 *
US-PATENT-4,459,562 ..... c 33 N84-27974 *
US-PATENT-4,462,871 ..... c 76 N84-35112 * #
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US-PATENT-4,463,465 ..... c 03 N84-33394 *
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US-PATENT-4,464,710 ..... c 33 N84-33663 *
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US-PATENT-4,466,667 ..... c 35 N84-33768 *
US-PATENT-4,469,552 ..... c 76 N84-35113 *
US-PATENT-4,469,942 ..... c 35 N84-33767 *
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US-PATENT-4,470,293 ..... c 37 N84-33807 *
US-PATENT-4,470,403 ..... c 44 N84-34792 *
US-PATENT-4,471,357 ..... c 32 N84-34651 *
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US-PATENT-4,472,728 ..... c 35 N84-33765 *
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US-PATENT-4,473,792 ..... c 33 N84-33660 *
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US-PATENT-4,474,471 ..... c 35 N84-34705 *
US-PATENT-4,474,975 ..... c 25 N85-21280 *
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US-PATENT-4,475,385 ..... c 09 N84-34448 *
US-PATENT-4,475,527 ..... c 37 N85-21650 *
US-PATENT-4,475,921 ..... c 71 N85-22104 *
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US-PATENT-4,481,570 ..... c 60 N85-21992 *
US-PATENT-4,482,778 ..... c 44 N85-21768 *
US-PATENT-4,482,779 ..... c 33 N85-21492 *
US-PATENT-4,483,512 ..... c 37 N85-20338 *
US-PATENT-4,483,639 ..... c 37 N85-21649 *
US-PATENT-4,483,817 ..... c 25 N85-21279 *
US-PATENT-4,485,151 ..... c 24 N85-21266 *
US-PATENT-4,485,151 ..... c 24 N85-35233 *
US-PATENT-4,485,670 ..... c 34 N85-21568 *
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US-PATENT-4,488,335 ..... c 27 N85-20125 *
US-PATENT-4,488,663 ..... c 35 N85-21595 *
US-PATENT-4,489,027 ..... c 27 N85-20124 *
US-PATENT-4,489,239 ..... c 36 N85-21631 *
US-PATENT-4,489,243 ..... c 44 N85-21769 *
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US-PATENT-4,491,427 ..... c 37 N85-21651 *
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US-PATENT-4,493,211 ..... c 09 N85-21178 *
US-PATENT-4,493,553 ..... c 36 N85-21639 *
US-PATENT-4,495,044 ..... c 24 N85-21267 *
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US-PATENT-4,495,520 ..... c 32 N85-21427 *
US-PATENT-4,496,122 ..... c 05 N85-21147 *
US-PATENT-4,496,701 ..... c 27 N85-21347 *
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US-PATENT-4,497,935 ..... c 27 N85-21349 *
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US-PATENT-4,497,940 ..... c 27 N85-21352 *
US-PATENT-4,497,948 ..... c 27 N85-21350 *
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US-PATENT-4,498,333 ..... c 35 N85-21597 *
US-PATENT-4,499,260 ..... c 27 N85-21348 *
US-PATENT-4,499,424 ..... c 35 N85-21596 *
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US-PATENT-4,505,998 ..... c 33 N85-29144 *
US-PATENT-4,506,183 ..... c 34 N85-29179 *
US-PATENT-4,507,928 ..... c 31 N85-29082 *
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US-PATENT-4,509,130 ..... c 36 N85-29264 *
US-PATENT-4,509,132 ..... c 33 N85-34333 *
US-PATENT-4,509,548 ..... c 37 N85-34403 *
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US-PATENT-4,511,838 ..... c 76 N85-30923 *
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US-PATENT-4,512,661 ..... c 35 N85-30282 *
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US-PATENT-4,512,699 ..... c 37 N85-29285 *
US-PATENT-4,512,846 ..... c 76 N85-29800 *
US-PATENT-4,513,317 ..... c 32 N85-29117 *
US-PATENT-4,513,423 ..... c 36 N85-30305 *
US-PATENT-4,513,750 ..... c 52 N85-30618 *
US-PATENT-4,513,810 ..... c 35 N85-29214 *
US-PATENT-4,514,137 ..... c 37 N85-29282 *
US-PATENT-4,514,143 ..... c 05 N85-29947 *
US-PATENT-4,514,178 ..... c 35 N85-29212 *
US-PATENT-4,514,557 ..... c 25 N85-28982 *
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US-PATENT-4,515,751 ..... c 35 N85-29213 *
US-PATENT-4,516,071 ..... c 33 N85-30187 *
US-PATENT-4,516,435 ..... c 37 N85-29286 *
US-PATENT-4,517,472 ..... c 33 N85-29147 *
US-PATENT-4,517,505 ..... c 37 N85-30333 *
US-PATENT-4,517,530 ..... c 33 N85-29143 *
US-PATENT-4,518,277 ..... c 37 N85-30336 *
US-PATENT-4,518,625 ..... c 24 N85-30027 *
US-PATENT-4,518,722 ..... c 27 N85-29044 *
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US-PATENT-4,520,601 ..... c 37 N85-30335 *
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US-PATENT-4,521,854 ..... c 33 N85-29142 *
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US-PATENT-4,522,661 ..... c 76 N85-30922 *
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US-PATENT-4,523,682 ..... c 71 N85-30765 *
US-PATENT-4,523,741 ..... c 37 N85-29284 *
US-PATENT-4,523,810 ..... c 74 N85-29749 *
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US-PATENT-4,527,910 ..... c 37 N85-33490 *
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US-PATENT-4,528,417 ..... c 44 N85-34441 *
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US-PATENT-4,529,358 ..... c 34 N85-33433 *
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US-PATENT-4,532,797 ..... c 35 N85-34373 *
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US-PATENT-4,533,242 ..... c 74 N85-34629 *
US-PATENT-4,534,166 ..... c 07 N85-35195 *
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US-PATENT-4,535,035 ..... c 26 N85-35267 *
US-PATENT-4,535,636 ..... c 35 N85-34375 *
US-PATENT-4,536,114 ..... c 37 N85-34401 *
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US-PATENT-4,537,554 ..... c 85 N85-34722 *
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US-PATENT-4,538,446 ..... c 34 N86-12547 *
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US-PATENT-4,542,858 ..... c 33 N86-20669 *
US-PATENT-4,542,963 ..... c 74 N86-20125 *
US-PATENT-4,543,295 ..... c 27 N86-20561 *
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US-PATENT-4,543,442 ..... c 76 N86-20150 *
US-PATENT-4,544,025 ..... c 35 N86-20750 *
US-PATENT-4,544,068 ..... c 35 N86-20751 *
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US-PATENT-4,547,121 ..... c 37 N86-20789 *
US-PATENT-4,547,686 ..... c 33 N86-20672 *
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US-PATENT-4,553,393 ..... c 37 N86-19604 *
US-PATENT-4,553,917 ..... c 26 N86-32551 *
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US-PATENT-4,580-791 ..... c 37 N86-25790 *
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US-PATENT-4,582,289 ..... c 37 N87-21333 *
US-PATENT-4,582,590 ..... c 25 N86-25428 *
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US-PATENT-4,583,860 ..... c 74 N86-26190 *
US-PATENT-4,584,249 ..... c 44 N86-25874 *
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US-PATENT-4,654,110 ..... c 76 N87-23286 *
US-PATENT-4,655,482 ..... c 37 N87-22977 *
US-PATENT-4,657,044 ..... c 37 N87-21332 *
US-PATENT-4,660,000 ..... c 33 N87-21232 *
US-PATENT-4,661,558 ..... c 27 N87-22848 *
US-PATENT-4,661,770 ..... c 33 N87-22894 *
US-PATENT-4,662,220 ..... c 35 N87-22953 *
US-PATENT-4,662,751 ..... c 74 N87-23259 *
US-PATENT-4,663-627 ..... c 06 N87-22678 *
US-PATENT-4,663,483 ..... c 27 N87-22847 *
US-PATENT-4,664,177 ..... c 34 N87-22950 *
US-PATENT-4,664,177 ..... c 34 N88-23958 *
US-PATENT-4,664,344 ..... c 37 N87-22985 *
US-PATENT-4,664,980 ..... c 27 N87-23736 *
US-PATENT-4,665,277 ..... c 33 N87-23879 *
US-PATENT-4,665,334 ..... c 37 N87-23970 *
US-PATENT-4,666,086 ..... c 37 N87-24689 *
US-PATENT-4,666,561 ..... c 25 N88-23846 *
US-PATENT-4,668,589 ..... c 27 N87-25469 *
US-PATENT-4,669,354 ..... c 37 N87-23983 *
US-PATENT-4,669,836 ..... c 52 N87-24874 *
US-PATENT-4,669,958 ..... c 08 N87-23631 *
US-PATENT-4,670,565 ..... c 27 N87-23751 *
US-PATENT-4,672,202 ..... c 37 N87-23982 *
US-PATENT-4,675,379 ..... c 27 N87-24564 *
US-PATENT-4,675,563 ..... c 33 N87-23904 *
US-PATENT-4,675,880 ..... c 32 N87-25511 *
US-PATENT-4,676,110 ..... c 39 N87-25601 *
US-PATENT-4,676,846 ..... c 26 N87-28647 *
US-PATENT-4,676,853 ..... c 37 N87-23981 *
US-PATENT-4,676,962 ..... c 23 N87-23698 *
US-PATENT-4,677,629 ..... c 36 N87-23960 *
US-PATENT-4,677,636 ..... c 36 N87-23961 *
US-PATENT-4,677,642 ..... c 35 N87-23944 *
US-PATENT-4,677,803 ..... c 31 N87-25492 *
US-PATENT-4,678,438 ..... c 14 N87-25344 *
US-PATENT-4,680,897 ..... c 31 N87-25491 *
US-PATENT-4,681-818 ..... c 26 N87-25455 *
US-PATENT-4,681,142 ..... c 37 N87-25573 *
US-PATENT-4,681,437 ..... c 76 N87-25862 *
US-PATENT-4,682,006 ..... c 74 N87-25843 *
US-PATENT-4,682,053 ..... c 36 N87-25567 *
US-PATENT-4,682,225 ..... c 17 N87-25348 *
US-PATENT-4,682,343 ..... c 33 N87-25531 *
US-PATENT-4,682,494 ..... c 09 N87-25334 *
US-PATENT-4,682,745 ..... c 37 N87-25582 *
US-PATENT-4,683,809 ..... c 24 N87-27742 * #
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US-PATENT-4,684,258 ..... c 36 N87-28006 *
US-PATENT-4,684,424 ..... c 74 N87-28416 *
US-PATENT-4,685,535 ..... c 54 N87-29118 *
US-PATENT-4,687,048 ..... c 34 N87-28867 *
US-PATENT-4,687,444 ..... c 82 N87-29372 *
US-PATENT-4,687,964 ..... c 33 N87-28832 *
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US-PATENT-4,689,421 ..... c 23 N87-28605 *
US-PATENT-4,689,522 ..... c 33 N87-28831 *
US-PATENT-4,690,353 ..... c 33 N87-28833 *
US-PATENT-4,690,749 ..... c 27 N92-25397 *
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US-PATENT-4,696,808 ..... c 76 N87-29360 *
US-PATENT-4,697,425 ..... c 31 N88-14223 *
US-PATENT-4,697,922 ..... c 36 N88-14350 *
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US-PATENT-4,698,484 ..... c 37 N88-14362 *
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US-PATENT-4,704,197 ..... c 25 N88-24732 *
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US-PATENT-4,709,252 ..... c 33 N88-14271 *
US-PATENT-4,710,618 ..... c 44 N88-14492 *
US-PATENT-4,711,697 ..... c 76 N88-14835 *
US-PATENT-4,711,857 ..... c 76 N88-14836 *
US-PATENT-4,711,932 ..... c 27 N88-18725 *
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US-PATENT-4,718,281 ..... c 35 N88-23967 *
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US-PATENT-4,723,096 ..... c 33 N88-23942 *
US-PATENT-4,723,800 ..... c 37 N88-23979 *
US-PATENT-4,725,106 ..... c 54 N88-24163 *
US-PATENT-4,726,890 ..... c 76 N88-24543 *
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US-PATENT-4,736,676 ..... c 37 N88-23981 *
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US-PATENT-4,736,927 ..... c 35 N88-24927 *
US-PATENT-4,738,137 ..... c 35 N88-23966 *
US-PATENT-4,738,583 ..... c 18 N88-23828 *
US-PATENT-4,738,831 ..... c 76 N88-24544 *
US-PATENT-4,740,264 ..... c 76 N88-24545 *
US-PATENT-4,742,232 ..... c 72 N88-24253 *
US-PATENT-4,748,263 ..... c 23 N88-24692 *
US-PATENT-4,749,839 ..... c 37 N88-23980 *
US-PATENT-4,750,031 ..... c 33 N88-23941 *
US-PATENT-4,750,144 ..... c 60 N88-24169 *
US-PATENT-4,750,543 ..... c 34 N88-23958 *
US-PATENT-4,752,372 ..... c 25 N88-23845 *
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US-PATENT-4,757,315 ..... c 32 N88-26568 *
US-PATENT-4,757,767 ..... c 18 N88-26398 *
US-PATENT-4,758,380 ..... c 23 N88-26404 *
US-PATENT-4,761,744 ..... c 25 N88-29002 *
US-PATENT-4,762,173 ..... c 34 N88-29132 *
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US-PATENT-4,763,762 ..... c 37 N88-29181 *
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US-PATENT-4,765,187 ..... c 35 N88-29150 *
US-PATENT-4,765,396 ..... c 34 N88-29133 *
US-PATENT-4,766,286 ..... c 37 N88-30131 *
US-PATENT-4,766,369 ..... c 35 N88-29149 *
US-PATENT-4,766,533 ..... c 60 N88-29310 *
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US-PATENT-4,770,038 ..... c 35 N89-14407 *
US-PATENT-4,770,232 ..... c 35 N89-12048 *
US-PATENT-4,770,238 ..... c 34 N89-14392 *
US-PATENT-4,770,455 ..... c 37 N89-13785 *
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US-PATENT-4,771,823 ..... c 31 N89-12785 *
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US-PATENT-4,772,785 ..... c 74 N89-14077 *
US-PATENT-4,772,893 ..... c 32 N89-11961 *
US-PATENT-4,773,266 ..... c 71 N89-13236 *
US-PATENT-4,773,620 ..... c 05 N89-11738 *
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US-PATENT-4,774,835 ..... c 02 N89-12551 *
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US-PATENT-4,776,531 ..... c 02 N89-14224 *
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US-PATENT-4,777,656 ..... c 32 N89-14374 *
US-PATENT-4,777,823 ..... c 35 N89-14422 *
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US-PATENT-4,779,428 ..... c 31 N89-14351 *
US-PATENT-4,780,276 ..... c 26 N89-14303 *
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US-PATENT-4,781,993 ..... c 27 N89-29538 *
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US-PATENT-4,783,994 ..... c 35 N89-14423 *
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US-PATENT-4,790,026 ..... c 60 N89-26400 *
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US-PATENT-4,800,756 ..... c 71 N90-12289 *
US-PATENT-4,805,368 ..... c 18 N89-28554 *
US-PATENT-4,807,834 ..... c 18 N89-25266 *
US-PATENT-4,809,003 ..... c 32 N89-28672 *
US-PATENT-4,809,441 ..... c 37 N89-28831 *
US-PATENT-4,809,936 ..... c 18 N89-28553 *
US-PATENT-4,810,094 ..... c 35 N89-26202 *
US-PATENT-4,810,438 ..... c 27 N89-29539 *
US-PATENT-4,811,033 ..... c 32 N89-25363 *
US-PATENT-4,815,279 ..... c 20 N89-25279 *
US-PATENT-4,818,868 ..... c 72 N89-29169 *
US-PATENT-4,819,064 ..... c 32 N89-28676 *
US-PATENT-4,819,438 ..... c 25 N90-11824 *
US-PATENT-4,820,488 ..... c 26 N89-28621 *
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US-PATENT-4,823,074 ..... c 33 N89-29681 *
US-PATENT-4,823,299 ..... c 33 N89-28713 *
US-PATENT-4,831,818 ..... c 20 N90-19298 *
US-PATENT-4,833,233 ..... c 52 N90-20616 *
US-PATENT-4,836,035 ..... c 35 N90-17117 *
US-PATENT-4,836,707 ..... c 37 N90-17154 *
US-PATENT-4,837,300 ..... c 27 N90-16950 *
US-PATENT-4,838,346 ..... c 34 N90-20323 *
US-PATENT-4,839,046 ..... c 51 N91-14703 *
US-PATENT-4,839,121 ..... c 31 N90-19425 *
US-PATENT-4,839,330 ..... c 25 N90-20154 *

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US-PATENT-4,840,496 ..... c 36 N90-17132 *
US-PATENT-4,842,223 ..... c 18 N90-19278 *
US-PATENT-4,842,224 ..... c 18 N90-16860 *
US-PATENT-4,843,123 ..... c 27 N90-16949 *
US-PATENT-4,843,328 ..... c 32 N90-17005 *
US-PATENT-4,843,439 ..... c 35 N90-17118 *
US-PATENT-4,843,440 ..... c 33 N90-20282 *
US-PATENT-4,843,554 ..... c 09 N90-20096 *
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US-PATENT-4,845,728 ..... c 60 N90-21525 *
US-PATENT-4,845,993 ..... c 09 N91-14357 *
US-PATENT-4,846,854 ..... c 31 N90-20254 *
US-PATENT-4,847,502 ..... c 35 N90-20351 *
US-PATENT-4,847,837 ..... c 62 N90-19776 *
US-PATENT-4,848,153 ..... c 34 N90-19534 *
US-PATENT-4,848,987 ..... c 29 N90-20236 *
US-PATENT-4,849,033 ..... c 76 N90-19884 *
US-PATENT-4,849,903 ..... c 33 N90-19492 *
US-PATENT-4,851,071 ..... c 31 N90-19427 *
US-PATENT-4,851,491 ..... c 27 N90-21177 *
US-PATENT-4,851,544 ..... c 23 N90-21118 *
US-PATENT-4,852,578 ..... c 52 N90-21519 *
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US-PATENT-4,858,857 ..... c 18 N90-20126 *
US-PATENT-4,858,979 ..... c 37 N90-20408 *
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US-PATENT-4,860,074 ..... c 35 N90-21358 *
US-PATENT-4,860,149 ..... c 33 N90-20320 *
US-PATENT-4,860,295 ..... c 36 N91-17360 * #
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US-PATENT-4,861,416 ..... c 76 N91-15898 *
US-PATENT-4,863,118 ..... c 05 N90-20079 *
US-PATENT-4,863,553 ..... c 76 N90-20896 *
US-PATENT-4,864,050 ..... c 23 N90-20133 *
US-PATENT-4,864,865 ..... c 37 N90-20409 *
US-PATENT-4,864,910 ..... c 37 N90-21390 *
US-PATENT-4,865,114 ..... c 31 N90-21216 *
US-PATENT-4,865,270 ..... c 54 N93-14713 *
US-PATENT-4,867,394 ..... c 05 N90-20078 *
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US-PATENT-4,873,990 ..... c 35 N90-23706 *
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US-PATENT-4,877,689 ..... c 24 N90-23480 *
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US-PATENT-4,886,896 ..... c 23 N90-23475 *
US-PATENT-4,889,912 ..... c 27 N90-23545 *
US-PATENT-4,890,252 ..... c 33 N90-23636 *
US-PATENT-4,890,915 ..... c 76 N90-24150 *
US-PATENT-4,891,591 ..... c 27 N90-23544 *
US-PATENT-4,894,554 ..... c 37 N90-23742 *
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US-PATENT-4,895,915 ..... c 23 N91-14418 *
US-PATENT-4,895,972 ..... c 27 N90-23546 *
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US-PATENT-4,899,356 ..... c 38 N90-23756 *
US-PATENT-4,902,354 ..... c 09 N90-23415 *
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US-PATENT-4,902,647 ..... c 72 N91-14813 *
US-PATENT-4,902,769 ..... c 23 N91-27220 *
US-PATENT-4,904,538 ..... c 24 N90-23493 *
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US-PATENT-4,909,436 ..... c 35 N91-21496 *
US-PATENT-4,909,933 ..... c 29 N90-21209 *
US-PATENT-4,910,233 ..... c 27 N90-21198 *
US-PATENT-4,910,396 ..... c 74 N90-22383 *
US-PATENT-4,911,062 ..... c 24 N90-21822 *
US-PATENT-4,911,738 ..... c 35 N90-22024 *
US-PATENT-4,911,890 ..... c 35 N90-22025 *
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US-PATENT-4,916,954 ..... c 35 N90-23712 *
US-PATENT-4,917,302 ..... c 37 N90-23751 *
US-PATENT-4,917,332 ..... c 05 N91-14345 *
US-PATENT-4,917,333 ..... c 05 N90-23390 *
US-PATENT-4,917,940 ..... c 76 N90-24168 *
US-PATENT-4,918,652 ..... c 35 N90-23713 *
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US-PATENT-4,921,293 ..... c 37 N91-14616 *
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US-PATENT-4,923,741 ..... c 54 N90-25498 *
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US-PATENT-4,926,694 ..... c 24 N91-14430 *
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US-PATENT-4,932,807 ..... c 37 N91-15544 *
US-PATENT-4,933,558 ..... c 74 N91-14835 *
US-PATENT-4,933,936 ..... c 62 N91-14772 *
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US-PATENT-4,945,549 ..... c 32 N91-14523 *
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US-PATENT-4,991,788 ..... c 18 N91-21222 *
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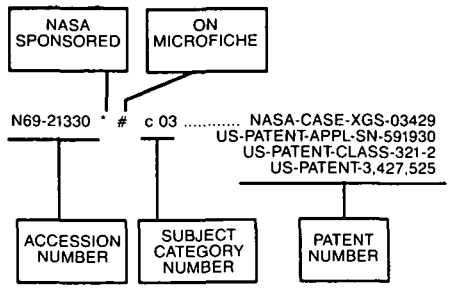

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US-PATENT-3,016,863

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US-PATENT-3,008,229

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US-PATENT-3,202,998

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US-PATENT-3,208,272

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US-PATENT-3,311,772

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US-PATENT-3,317,341

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US-PATENT-3,508,724

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US-PATENT-3,310,261

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US-PATENT-3,493,437

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US-PATENT-3,508,070

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US-PATENT-3,534,727

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US-PATENT-3,502,074

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US-PATENT-3,508,541

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N71-11243* c 06 ..... NASA-CASE-XMF-08652
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N71-12390* c 07 ..... NASA-CASE-XER-09213
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US-PATENT-3,501,632

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US-PATENT-3,520,660

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US-PATENT-3,526,134

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US-PATENT-CLASS-236-1
US-PATENT-3,526,359

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US-PATENT-3,526,460

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US-PATENT-3,507,114

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US-PATENT-CLASS-188-87
US-PATENT-3,310,138

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US-PATENT-APPL-SN-577775
US-PATENT-CLASS-96-49
US-PATENT-3,458,313

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US-PATENT-CLASS-204-195
US-PATENT-3,509,034

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US-PATENT-3,520,317

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US-PATENT-APPL-SN-726898
US-PATENT-CLASS-137-81.5
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US-PATENT-3,500,677

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US-PATENT-3,501,664

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US-PATENT-APPL-SN-677476
US-PATENT-CLASS-73-105
US-PATENT-3,534,596

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US-PATENT-CLASS-73-382
US-PATENT-3,500,688

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US-PATENT-3,490,205

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US-PATENT-3,516,404

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US-PATENT-3,469,734

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US-PATENT-CLASS-212-11
US-PATENT-3,276,602

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US-PATENT-CLASS-230-162
US-PATENT-3,309,012

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US-PATENT-CLASS-188-1
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US-PATENT-3,488,123

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US-PATENT-3,276,376

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US-PATENT-3,534,555

N71-17645* c 32 ..... NASA-CASE-XNP-01153
US-PATENT-APPL-SN-336608
US-PATENT-CLASS-73-88
US-PATENT-3,273,381

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US-PATENT-3,526,382

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US-PATENT-3,507,034

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US-PATENT-3,535,179

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US-PATENT-CLASS-85-3
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US-PATENT-3,534,909

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US-PATENT-3,535,041

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US-PATENT-CLASS-33-174
US-PATENT-3,534,480

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US-PATENT-3,535,024

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US-PATENT-3,526,030

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US-PATENT-3,508,999

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US-PATENT-3,310,258

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US-PATENT-3,529,480

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US-PATENT-3,286,629

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US-PATENT-CLASS-73-432
US-PATENT-3,286,531

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US-PATENT-CLASS-73-295
US-PATENT-3,273,392

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US-PATENT-3,488,414

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US-PATENT-CLASS-81-63.1
US-PATENT-3,534,836

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US-PATENT-3,274,304

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US-PATENT-3,273,355

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US-PATENT-3,271,637

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US-PATENT-CLASS-55-208
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US-PATENT-CLASS-138-45
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US-PATENT-CLASS-251-121
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N71-18613* c 15 ..... NASA-CASE-XNP-02588
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N71-18614* c 16 ..... NASA-CASE-XGS-03644
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N71-18615* c 12 ..... NASA-CASE-XNP-09704
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US-PATENT-CLASS-251-342
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N71-18694* c 08 ..... NASA-CASE-NPO-10201
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N71-18773* c 11 ..... NASA-CASE-XMF-07488
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N71-18843* c 09 ..... NASA-CASE-XNP-03263
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N71-19212* c 21 ..... NASA-CASE-MFS-20386
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N71-19213* c 15 ..... NASA-CASE-MFS-14259
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N71-19214* c 15 ..... NASA-CASE-MFS-20410
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N71-19288* c 08 ..... NASA-CASE-NPO-10068
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N71-19417* c 10 ..... NASA-CASE-XMS-10984-1
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N71-19418* c 10 ..... NASA-CASE-GSC-10041-1
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US-PATENT-CLASS-340-347

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US-PATENT-3,517,221

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US-PATENT-3,540,050

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US-PATENT-CLASS-165-107
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US-PATENT-CLASS-310-4
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US-PATENT-CLASS-356-28
US-PATENT-3,547,540

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US-PATENT-3,472,742

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US-PATENT-3,486,123

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US-PATENT-3,550,034

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US-PATENT-CLASS-333-83
US-PATENT-3,541,479

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US-PATENT-3,546,705

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US-PATENT-3,541,439

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US-PATENT-CLASS-350-189
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US-PATENT-CLASS-307-235
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US-PATENT-3,540,250

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US-PATENT-CLASS-350-310
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US-PATENT-3,540,942

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US-PATENT-3,535,497

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US-PATENT-3,549,955

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US-PATENT-3,541,428

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US-PATENT-CLASS-285-317
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US-PATENT-3,550,129

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US-PATENT-CLASS-60-202
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US-PATENT-CLASS-220-9
US-PATENT-CLASS-52-249
US-PATENT-CLASS-52-404
US-PATENT-CLASS-62-45
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US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-133
US-PATENT-CLASS-219-378
US-PATENT-CLASS-219-530
US-PATENT-CLASS-244-1
US-PATENT-3,548,930

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US-PATENT-3,546,931

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US-PATENT-CLASS-244-113
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US-PATENT-3,547,376

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US-PATENT-3,559,096

N71-25892* c 14 ..... NASA-CASE-XLA-04555-1
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US-PATENT-3,468,727

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US-PATENT-CLASS-235-201

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US-PATENT-CLASS-333-72
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US-PATENT-CLASS-2-81
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US-PATENT-CLASS-317-153
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US-PATENT-CLASS-325-41

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US-PATENT-CLASS-330-30
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US-PATENT-CLASS-323-60
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US-PATENT-CLASS-343-117
US-PATENT-CLASS-343-176
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US-PATENT-CLASS-250-83.6R
US-PATENT-CLASS-324-33
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US-PATENT-CLASS-152-250
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US-PATENT-CLASS-307-300
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US-PATENT-CLASS-318-653
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US-PATENT-CLASS-356-106
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US-PATENT-CLASS-317-231
US-PATENT-CLASS-317-238
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US-PATENT-CLASS-343-854
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US-PATENT-CLASS-340-172.5
US-PATENT-3,571,801

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US-PATENT-CLASS-331-177
US-PATENT-CLASS-332-30
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US-PATENT-CLASS-340-164
US-PATENT-CLASS-340-166
US-PATENT-CLASS-340-213
US-PATENT-CLASS-340-403
US-PATENT-3,571,800

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US-PATENT-CLASS-73-355
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N71-27325* c 14 ..... NASA-CASE-GSC-10441-1
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US-PATENT-CLASS-324-43
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US-PATENT-CLASS-324-107
US-PATENT-CLASS-324-133
US-PATENT-CLASS-340-248
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US-PATENT-CLASS-178-7.3
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US-PATENT-CLASS-321-64
US-PATENT-CLASS-322-32
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US-PATENT-CLASS-321-12
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US-PATENT-CLASS-324-61
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US-PATENT-CLASS-307-126
US-PATENT-CLASS-323-20
US-PATENT-3,566,143

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US-PATENT-3,568,447

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US-PATENT-CLASS-244-4
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US-PATENT-CLASS-91-390
US-PATENT-CLASS-91-448
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US-PATENT-CLASS-332-30
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US-PATENT-CLASS-325-185
US-PATENT-CLASS-330-124
US-PATENT-CLASS-330-200
US-PATENT-CLASS-330-40
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N71-28468* c 09 ..... NASA-CASE-ARC-10137-1
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US-PATENT-CLASS-307-273
US-PATENT-CLASS-307-288
US-PATENT-CLASS-328-207
US-PATENT-3,584,311

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US-PATENT-APPL-SN-787911
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US-PATENT-3,573,986

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US-PATENT-CLASS-178-54CF
US-PATENT-CLASS-178-54PE
US-PATENT-3,582,960

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US-PATENT-CLASS-104-139
US-PATENT-CLASS-119-96
US-PATENT-CLASS-238-1
US-PATENT-CLASS-248-361
US-PATENT-CLASS-272-70
US-PATENT-CLASS-35-29
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US-PATENT-3,576,786

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US-PATENT-CLASS-73-432
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US-PATENT-CLASS-148-126
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US-PATENT-3,271,594

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US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-153
US-PATENT-CLASS-73-147
US-PATENT-3,583,815

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US-PATENT-CLASS-137-81.5
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N71-28747* c 17 ..... NASA-CASE-XNP-08881
US-PATENT-APPL-SN-732922
US-PATENT-CLASS-161-89
US-PATENT-3,579,412

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US-PATENT-APPL-SN-732455
US-PATENT-CLASS-176-45
US-PATENT-3,574,057

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US-PATENT-APPL-SN-212497
US-PATENT-CLASS-181-.5
US-PATENT-3,260,326

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US-PATENT-CLASS-317-100
US-PATENT-3,317,797

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US-PATENT-APPL-SN-617775
US-PATENT-CLASS-260-47
US-PATENT-3,370,039

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US-PATENT-CLASS-260-429
US-PATENT-3,396,184

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US-PATENT-CLASS-343-771
US-PATENT-3,417,400

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US-PATENT-CLASS-331-113
US-PATENT-3,325,749

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US-PATENT-APPL-SN-521755
US-PATENT-CLASS-60-258
US-PATENT-3,318,096

N71-28850* c 28 ..... NASA-CASE-XNP-01954
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US-PATENT-CLASS-313-230
US-PATENT-3,328,624

N71-28851* c 31 ..... NASA-CASE-XMS-06162
US-PATENT-APPL-SN-610724
US-PATENT-CLASS-244-138
US-PATENT-3,330,510

N71-28852* c 33 ..... NASA-CASE-XNP-01310
US-PATENT-APPL-SN-379771
US-PATENT-CLASS-60-266
US-PATENT-3,279,193

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US-PATENT-3,389,346

N71-28860* c 10 ..... NASA-CASE-MSC-13492-1
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US-PATENT-CLASS-307-265
US-PATENT-CLASS-307-273
US-PATENT-CLASS-328-207
US-PATENT-CLASS-328-92
US-PATENT-3,577,014

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US-PATENT-CLASS-250-49.5
US-PATENT-3,567,927

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US-PATENT-CLASS-318-331
US-PATENT-CLASS-318-345
US-PATENT-CLASS-318-504
US-PATENT-3,573,583

N71-28892* c 33 ..... NASA-CASE-XMF-05046
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US-PATENT-CLASS-62-45
US-PATENT-3,365,897

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US-PATENT-CLASS-343-100
US-PATENT-3,331,071

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US-PATENT-APPL-SN-538907
US-PATENT-CLASS-244-1
US-PATENT-3,409,247

N71-28915* c 28 ..... NASA-CASE-LEW-10286-1
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US-PATENT-CLASS-60-39.36
US-PATENT-CLASS-60-39.65
US-PATENT-3,581,492

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US-PATENT-3,394,359

N71-28926* c 09 ..... NASA-CASE-XMS-03542
US-PATENT-APPL-SN-482952
US-PATENT-CLASS-307-263
US-PATENT-3,364,366

N71-28928* c 28 ..... NASA-CASE-XNP-00816
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US-PATENT-3,202,398

N71-28929* c 27 ..... NASA-CASE-XNP-00650
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US-PATENT-3,170,295

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US-PATENT-APPL-SN-865109
US-PATENT-CLASS-204-263
US-PATENT-3,574,084

N71-28935* c 14 ..... NASA-CASE-LAR-10686
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US-PATENT-CLASS-226-58
US-PATENT-3,298,582

N71-28936* c 15 ..... NASA-CASE-XMS-10993
US-PATENT-APPL-SN-660573
US-PATENT-CLASS-244-1
US-PATENT-3,389,877

N71-28937* c 15 ..... NASA-CASE-XNP-01855
US-PATENT-APPL-SN-408435
US-PATENT-CLASS-285-45
US-PATENT-3,219,365

N71-28951* c 15 ..... NASA-CASE-XNP-02278
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US-PATENT-CLASS-60-35.55
US-PATENT-3,132,479

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US-PATENT-2,837,706

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US-PATENT-APPL-SN-262596
US-PATENT-CLASS-219-413
US-PATENT-3,197,616

N71-28959* c 15 ..... NASA-CASE-XNP-01848
US-PATENT-APPL-SN-359532
US-PATENT-CLASS-64-27
US-PATENT-3,236,066

N71-28960* c 10 ..... NASA-CASE-XNP-00745
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US-PATENT-CLASS-328-67
US-PATENT-3,252,100

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US-PATENT-3,299,431

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US-PATENT-CLASS-343-784
US-PATENT-CLASS-343-872
US-PATENT-3,579,242

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US-PATENT-CLASS-324-73
US-PATENT-CLASS-340-347AD
US-PATENT-3,579,103

N71-28992* c 14 ..... NASA-CASE-ERC-10150
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US-PATENT-CLASS-73-40.7
US-PATENT-3,578,758

N71-28993* c 14 ..... NASA-CASE-MFS-20044
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US-PATENT-CLASS-356-209
US-PATENT-3,574,470

N71-28994* c 14 ..... NASA-CASE-XER-11203
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US-PATENT-CLASS-250-218
US-PATENT-CLASS-356-103
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N71-29008* c 09 ..... NASA-CASE-MSC-11277
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US-PATENT-CLASS-317-33
US-PATENT-CLASS-317-54
US-PATENT-CLASS-317-60
US-PATENT-3,579,041

N71-29018* c 15 ..... NASA-CASE-XLA-08916
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US-PATENT-3,583,058

N71-29032* c 15 ..... NASA-CASE-XMF-05999
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US-PATENT-CLASS-117-212
US-PATENT-3,576,669

N71-29033* c 08 ..... NASA-CASE-GSC-10554-1
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US-PATENT-CLASS-235-150.2
US-PATENT-CLASS-235-150.27
US-PATENT-CLASS-235-151.1
US-PATENT-3,578,957

N71-29034* c 08 ..... NASA-CASE-NPO-11088
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US-PATENT-CLASS-307-222
US-PATENT-CLASS-328-167
US-PATENT-CLASS-328-44
US-PATENT-3,579,122

N71-29035* c 09 ..... NASA-CASE-LEW-10155-1
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US-PATENT-CLASS-337-121
US-PATENT-3,579,168

N71-29040* c 18 ..... NASA-CASE-XLE-10910
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US-PATENT-CLASS-148-6
US-PATENT-3,573,996

N71-29041* c 14 ..... NASA-CASE-XLA-10402
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US-PATENT-CLASS-356-76
US-PATENT-3,574,462

N71-29044* c 03 ..... NASA-CASE-XMS-02063
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US-PATENT-CLASS-136-86
US-PATENT-3,382,105

N71-29046* c 33 ..... NASA-CASE-XHQ-03673
US-PATENT-APPL-SN-559055
US-PATENT-CLASS-165-86
US-PATENT-3,347,309

N71-29049* c 23 ..... NASA-CASE-XNP-06503
US-PATENT-APPL-SN-370989
US-PATENT-CLASS-335-216
US-PATENT-3,273,094

N71-29050* c 31 ..... NASA-CASE-HQN-00936
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US-PATENT-CLASS-244-1
US-PATENT-3,396,920

N71-29051* c 33 ..... NASA-CASE-XMF-04208
US-PATENT-APPL-SN-428887
US-PATENT-CLASS-73-190
US-PATENT-3,372,588

N71-29052* c 33 ..... NASA-CASE-MSC-12389
US-PATENT-APPL-SN-229286
US-PATENT-CLASS-165-47
US-PATENT-3,212,564

N71-29053* c 33 ..... NASA-CASE-HQN-00938
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US-PATENT-CLASS-60-267
US-PATENT-3,298,175

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US-PATENT-CLASS-350-1
US-PATENT-CLASS-350-286
US-PATENT-3,574,438

N71-29123* c 23 ..... NASA-CASE-XNP-08907
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US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-310
US-PATENT-3,574,448

N71-29125* c 23 ..... NASA-CASE-NPO-11087
US-PATENT-APPL-SN-840359
US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-356-153
US-PATENT-3,574,467

N71-29128* c 02 ..... NASA-CASE-XAC-00048
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US-PATENT-CLASS-121-38
US-PATENT-2,898,889

N71-29129* c 03 ..... NASA-CASE-XGS-01674
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US-PATENT-CLASS-320-13
US-PATENT-3,118,100

N71-29131* c 16 ..... NASA-CASE-ERC-10151
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US-PATENT-CLASS-350-3.5
US-PATENT-3,578,838

N71-29132* c 15 ..... NASA-CASE-NPO-10431
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US-PATENT-CLASS-73-49.8
US-PATENT-3,583,239

N71-29133* c 15 ..... NASA-CASE-MFS-20453
US-PATENT-APPL-SN-885594
US-PATENT-CLASS-29-278R
US-PATENT-CLASS-294-15
US-PATENT-CLASS-339-17R
US-PATENT-CLASS-81-3R
US-PATENT-3,583,744

N71-29134* c 14 ..... NASA-CASE-MFS-11204
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US-PATENT-CLASS-73-304C
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N71-29135* c 10 ..... NASA-CASE-GSC-10564
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US-PATENT-3,348,218

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US-PATENT-CLASS-308-177
US-PATENT-2,903,307

N71-29137* c 17 ..... NASA-CASE-XNP-04339
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N71-29138* c 08 ..... NASA-CASE-ERC-10041
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US-PATENT-CLASS-307-265
US-PATENT-CLASS-324-106
US-PATENT-CLASS-328-58
US-PATENT-CLASS-332-10
US-PATENT-CLASS-332-9R
US-PATENT-3,579,146

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US-PATENT-CLASS-307-247
US-PATENT-CLASS-307-265
US-PATENT-CLASS-307-273
US-PATENT-CLASS-307-294
US-PATENT-CLASS-328-207
US-PATENT-3,578,988

N71-29151* c 33 ..... NASA-CASE-XLE-00035
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US-PATENT-CLASS-204-37
US-PATENT-2,926,123

N71-29152* c 33 ..... NASA-CASE-XLE-00027
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US-PATENT-CLASS-253-39.1
US-PATENT-2,956,772

N71-29153* c 28 ..... NASA-CASE-MFS-20831
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US-PATENT-CLASS-60-35.54
US-PATENT-3,212,259

N71-29154* c 28 ..... NASA-CASE-XLE-00155
US-PATENT-APPL-SN-348600
US-PATENT-CLASS-253-77
US-PATENT-2,997,274

N71-29155* c 27 ..... NASA-CASE-MSC-12390
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US-PATENT-CLASS-222-61
US-PATENT-3,286,882

N71-29156* c 26 ..... NASA-CASE-XNP-01961
US-PATENT-APPL-SN-442835
US-PATENT-CLASS-148-174
US-PATENT-3,397,094

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US-PATENT-APPL-SN-199199
US-PATENT-CLASS-315-111
US-PATENT-3,238,413

N71-30026* c 14 ..... NASA-CASE-MFS-20096
US-PATENT-APPL-SN-435433
US-PATENT-CLASS-73-432
US-PATENT-3,396,584

N71-30027* c 23 ..... NASA-CASE-GSC-10700
US-PATENT-APPL-SN-311387
US-PATENT-CLASS-350-2
US-PATENT-3,394,975

N71-30028* c 15 ..... NASA-CASE-MFS-20830
US-PATENT-APPL-SN-286620
US-PATENT-3,262,395

N71-30265* c 14 ..... NASA-CASE-HQN-10780
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US-PATENT-CLASS-73-497

US-PATENT-3,270,565
N71-30292* c 23 ..... NASA-CASE-HQN-10781
US-PATENT-APPL-SN-86018
US-PATENT-3,239,660
N71-33108* c 07 ..... NASA-CASE-KSC-10164
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US-PATENT-CLASS-179-1VC
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US-PATENT-CLASS-307-261
US-PATENT-CLASS-321-47
US-PATENT-3,588,671
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US-PATENT-APPL-SN-713188
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US-PATENT-CLASS-235-175
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US-PATENT-CLASS-330-16
US-PATENT-CLASS-330-24
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N71-33160* c 31 ..... NASA-CASE-XLA-04063
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US-PATENT-CLASS-244-1
US-PATENT-CLASS-244-83
US-PATENT-3,586,261
N71-33229* c 23 ..... NASA-CASE-NPO-10468
US-PATENT-APPL-SN-787846
US-PATENT-CLASS-350-310
US-PATENT-CLASS-350-55
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N71-33407* c 10 ..... NASA-CASE-NPO-10342
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US-PATENT-CLASS-179-15BS
US-PATENT-CLASS-340-347DD
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N71-33408* c 17 ..... NASA-CASE-LEW-10327
US-PATENT-APPL-SN-772006
US-PATENT-CLASS-148-6.3
US-PATENT-3,591,426
N71-33409* c 03 ..... NASA-CASE-ARC-10050
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US-PATENT-CLASS-136-89
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N71-33410* c 16 ..... NASA-CASE-NPO-10417
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US-PATENT-CLASS-352-84
US-PATENT-CLASS-95-11
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US-PATENT-APPL-SN-751266
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US-PATENT-CLASS-90-11
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US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-108
US-PATENT-CLASS-315-111
US-PATENT-CLASS-340-324
US-PATENT-CLASS-340-336
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US-PATENT-CLASS-333-6
US-PATENT-CLASS-333-7
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US-PATENT-CLASS-73-147
US-PATENT-3,587,306
N71-33613* c 07 ..... NASA-CASE-NPO-10700
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US-PATENT-CLASS-318-230
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US-PATENT-CLASS-325-348
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-478
US-PATENT-CLASS-325-480
US-PATENT-CLASS-325-482
US-PATENT-CLASS-328-164
US-PATENT-CLASS-328-165
US-PATENT-CLASS-329-145
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N71-34044* # c 03 ..... NASA-CASE-NPO-11190
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N71-34212* # c 09 ..... NASA-CASE-MFS-20935
US-PATENT-APPL-SN-136007
N71-34389* # c 14 ..... NASA-CASE-HQN-10683
US-PATENT-APPL-SN-146217
N72-10138* # c 06 ..... NASA-CASE-HQN-10537-1
US-PATENT-APPL-SN-112366
N72-10375* # c 14 ..... NASA-CASE-GSC-11095-1
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N72-11018* c 02 ..... NASA-CASE-LAR-10557
US-PATENT-APPL-SN-853746
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US-PATENT-CLASS-416-121
US-PATENT-CLASS-416-127
US-PATENT-CLASS-416-130
US-PATENT-CLASS-416-149
US-PATENT-CLASS-416-200
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N72-11062* c 03 ..... NASA-CASE-XGS-04047-2
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US-PATENT-CLASS-136-206
US-PATENT-3,597,281
N72-11084* c 05 ..... NASA-CASE-NPO-10677
US-PATENT-APPL-SN-868530
US-PATENT-CLASS-62-467
US-PATENT-CLASS-62-56
US-PATENT-3,599,443
N72-11085* c 05 ..... NASA-CASE-MSC-13140
US-PATENT-APPL-SN-796358
US-PATENT-CLASS-285-410
US-PATENT-CLASS-297-232
US-PATENT-CLASS-297-68
US-PATENT-CLASS-5-69
US-PATENT-3,592,505
N72-11148* c 07 ..... NASA-CASE-NPO-10301
US-PATENT-APPL-SN-848810
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US-PATENT-CLASS-343-853
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N72-11149* c 07 ..... NASA-CASE-GSC-10390-1
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US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-58
US-PATENT-CLASS-343-179
US-PATENT-CLASS-343-5DP
US-PATENT-CLASS-343-7.5
US-PATENT-3,593,138
N72-11150* c 07 ..... NASA-CASE-NPO-11064
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US-PATENT-CLASS-331-34
US-PATENT-CLASS-331-66
US-PATENT-CLASS-331-7
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N72-11171* c 08 ..... NASA-CASE-NPO-10769
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US-PATENT-3,598,921
N72-11172* c 08 ..... NASA-CASE-GSC-10880-1
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US-PATENT-CLASS-235-61NV
US-PATENT-CLASS-33-15A
US-PATENT-CLASS-33-204C
US-PATENT-3,599,335
N72-11224* c 09 ..... NASA-CASE-GSC-10614-1
US-PATENT-APPL-SN-822534
US-PATENT-CLASS-179-100-2CA
US-PATENT-CLASS-179-100-2MD
US-PATENT-CLASS-274-4R
US-PATENT-3,592,478
N72-11225* c 09 ..... NASA-CASE-KSC-10162
US-PATENT-APPL-SN-817481
US-PATENT-CLASS-324-102
US-PATENT-CLASS-324-119
US-PATENT-CLASS-324-123R
US-PATENT-3,593,132
N72-11256* c 10 ..... NASA-CASE-ARC-10042-2
US-PATENT-APPL-SN-33159
US-PATENT-CLASS-330-107
US-PATENT-CLASS-330-109
US-PATENT-3,593,175
N72-11363* c 14 ..... NASA-CASE-MSC-11847-1
US-PATENT-APPL-SN-8497
US-PATENT-CLASS-73-149
US-PATENT-CLASS-73-290B
US-PATENT-3,596,510
N72-11364* c 14 ..... NASA-CASE-NPO-10778
US-PATENT-APPL-SN-865909
US-PATENT-CLASS-250-235
US-PATENT-CLASS-33-125
US-PATENT-CLASS-356-167
US-PATENT-CLASS-356-32
US-PATENT-CLASS-73-95
US-PATENT-3,592,545
N72-11365* c 14 ..... NASA-CASE-MFS-20485
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US-PATENT-CLASS-73-194F
US-PATENT-3,599,489
N72-11385* c 15 ..... NASA-CASE-MFS-18495
US-PATENT-APPL-SN-38814
US-PATENT-CLASS-24-211N
US-PATENT-CLASS-85-5B
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N72-11386* c 15 ..... NASA-CASE-MFS-20249
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US-PATENT-CLASS-248-278
US-PATENT-CLASS-248-487
US-PATENT-CLASS-33-72
US-PATENT-CLASS-350-285
US-PATENT-CLASS-350-287
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N72-11387* c 15 ..... NASA-CASE-XMF-09902
US-PATENT-APPL-SN-769665
US-PATENT-CLASS-75-20F
US-PATENT-3,592,628
N72-11388* c 15 ..... NASA-CASE-MFS-20423
US-PATENT-APPL-SN-865298
US-PATENT-CLASS-212-134
US-PATENT-CLASS-308-5
US-PATENT-3,600,046
N72-11389* c 15 ..... NASA-CASE-XLA-05056
US-PATENT-APPL-SN-596733
US-PATENT-CLASS-210-445
US-PATENT-3,592,768
N72-11390* c 15 ..... NASA-CASE-MFS-18100
US-PATENT-APPL-SN-784055
US-PATENT-CLASS-15-143
US-PATENT-CLASS-15-210
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N72-11391* c 15 ..... NASA-CASE-NPO-11012
US-PATENT-APPL-SN-845807
US-PATENT-CLASS-248-18
US-PATENT-CLASS-248-20
US-PATENT-3,592,422
N72-11392* c 15 ..... NASA-CASE-MFS-20299
US-PATENT-APPL-SN-889437
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US-PATENT-CLASS-156-66
US-PATENT-CLASS-219-221
US-PATENT-CLASS-219-243
US-PATENT-3,593,001
N72-11568* # c 23 ..... NASA-CASE-GSC-11133-1
US-PATENT-APPL-SN-121328
N72-11595* c 24 ..... NASA-CASE-MFS-20095
US-PATENT-APPL-SN-855004
US-PATENT-CLASS-250-49.5B
US-PATENT-CLASS-250-49.5TE
US-PATENT-CLASS-250-51
US-PATENT-CLASS-250-52
US-PATENT-3,593,024
N72-11708* c 28 ..... NASA-CASE-MFS-20619
US-PATENT-APPL-SN-18982
US-PATENT-CLASS-139-425R
US-PATENT-CLASS-239-265.19
US-PATENT-CLASS-239-265.43
US-PATENT-CLASS-60-271
US-PATENT-3,596,465
N72-11709* c 28 ..... NASA-CASE-NPO-10737
US-PATENT-APPL-SN-760114
US-PATENT-CLASS-60-202
US-PATENT-CLASS-60-39-48
US-PATENT-3,591,967
N72-12080* c 07 ..... NASA-CASE-GSC-10087-3
US-PATENT-APPL-SN-880885
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-6.5R
US-PATENT-CLASS-343-6.8R
US-PATENT-3,594,790
N72-12081* c 07 ..... NASA-CASE-GSC-10185-1
US-PATENT-APPL-SN-733039
US-PATENT-CLASS-178-DIG.12
US-PATENT-CLASS-178-6
US-PATENT-CLASS-178-7.3
US-PATENT-CLASS-325-10
US-PATENT-CLASS-325-13
US-PATENT-3,588,331
N72-12136* c 09 ..... NASA-CASE-XER-09521
US-PATENT-APPL-SN-771530
US-PATENT-CLASS-136-202
US-PATENT-CLASS-136-206
US-PATENT-CLASS-136-227
US-PATENT-CLASS-343-DIG.3
US-PATENT-CLASS-343-720
US-PATENT-CLASS-343-840
US-PATENT-3,594,803
N72-12408* c 15 ..... NASA-CASE-XLA-05966

US-PATENT-APPL-SN-784544
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US-PATENT-CLASS-72-307
US-PATENT-3,584,660

N72-12409* c 15 ..... NASA-CASE-NPO-10637
US-PATENT-APPL-SN-851298
US-PATENT-CLASS-236-68
US-PATENT-CLASS-337-354
US-PATENT-CLASS-337-359
US-PATENT-CLASS-337-75
US-PATENT-CLASS-60-23
US-PATENT-3,591,960

N72-12440* c 16 ..... NASA-CASE-MFS-20180
US-PATENT-APPL-SN-863276
US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-350-1
US-PATENT-CLASS-350-312
US-PATENT-3,593,194

N72-13437* c 16 ..... NASA-CASE-MFS-20125
US-PATENT-APPL-SN-830366
US-PATENT-CLASS-178-DIG.21
US-PATENT-CLASS-178-6
US-PATENT-CLASS-250-203X
US-PATENT-CLASS-356-152
US-PATENT-3,603,686

N72-15098*# c 05 ..... NASA-CASE-MSC-13917-1
US-PATENT-APPL-SN-198355

N72-15986* c 03 ..... NASA-CASE-XGS-10010
US-PATENT-APPL-SN-729299
US-PATENT-CLASS-136-133
US-PATENT-CLASS-136-135
US-PATENT-CLASS-136-6
US-PATENT-3,607,401

N72-16015* c 05 ..... NASA-CASE-KSC-10278
US-PATENT-APPL-SN-856327
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US-PATENT-CLASS-340-279
US-PATENT-CLASS-35-8
US-PATENT-3,609,740

N72-16172* c 10 ..... NASA-CASE-ARC-10269-1
US-PATENT-APPL-SN-56791
US-PATENT-CLASS-307-230
US-PATENT-CLASS-307-262
US-PATENT-CLASS-328-155
US-PATENT-3,614,475

N72-16282* c 14 ..... NASA-CASE-LAR-10913
US-PATENT-APPL-SN-779160
US-PATENT-CLASS-73-12
US-PATENT-3,605,482

N72-16283* c 14 ..... NASA-CASE-GSC-10780-1
US-PATENT-APPL-SN-860493
US-PATENT-CLASS-82-24R
US-PATENT-3,608,409

N72-16329* c 15 ..... NASA-CASE-XLA-07829
US-PATENT-APPL-SN-763684
US-PATENT-CLASS-264-DIG.44
US-PATENT-CLASS-264-221
US-PATENT-CLASS-264-225
US-PATENT-CLASS-264-227
US-PATENT-3,608,046

N72-16330* c 15 ..... NASA-CASE-LAR-10203-1
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US-PATENT-CLASS-156-84
US-PATENT-CLASS-156-86
US-PATENT-3,607,495

N72-17093* c 06 ..... NASA-CASE-LEW-10794-1
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US-PATENT-CLASS-23-55
US-PATENT-CLASS-23-88
US-PATENT-CLASS-23-97
US-PATENT-3,607,015

N72-17094* c 06 ..... NASA-CASE-NPO-10234
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US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-253PC
US-PATENT-CLASS-73-23.1
US-PATENT-3,607,076

N72-17095* c 06 ..... NASA-CASE-NPO-10774
US-PATENT-APPL-SN-848805
US-PATENT-CLASS-23-201
US-PATENT-CLASS-23-230
US-PATENT-CLASS-23-253
US-PATENT-CLASS-73-76
US-PATENT-3,607,080

N72-17109* c 07 ..... NASA-CASE-MSC-12146-1
US-PATENT-APPL-SN-50206
US-PATENT-CLASS-178-5.2R
US-PATENT-CLASS-178-5.4
US-PATENT-CLASS-178-6.7
US-PATENT-3,603,722

N72-17152* c 09 ..... NASA-CASE-ARC-10178-1
US-PATENT-APPL-SN-47443
US-PATENT-CLASS-250-211J
US-PATENT-3,603,798

N72-17153* c 09 ..... NASA-CASE-ARC-10105
US-PATENT-APPL-SN-887698
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-307-252F
US-PATENT-CLASS-307-252J
US-PATENT-CLASS-325-492
US-PATENT-CLASS-340-177
US-PATENT-3,603,946

N72-17154* c 09 ..... NASA-CASE-ERC-10139
US-PATENT-APPL-SN-889555
US-PATENT-CLASS-321-10
US-PATENT-CLASS-336-178
US-PATENT-3,603,864

N72-17155* c 09 ..... NASA-CASE-NPO-11023
US-PATENT-APPL-SN-865274
US-PATENT-CLASS-330-18
US-PATENT-CLASS-330-40
US-PATENT-3,603,892

N72-17156* c 09 ..... NASA-CASE-NPO-10199
US-PATENT-APPL-SN-739391
US-PATENT-CLASS-178-7.1
US-PATENT-CLASS-330-11
US-PATENT-CLASS-330-35
US-PATENT-3,609,230

N72-17157* c 09 ..... NASA-CASE-NPO-11253
US-PATENT-APPL-SN-21906
US-PATENT-CLASS-307-223
US-PATENT-CLASS-307-227
US-PATENT-CLASS-307-81
US-PATENT-CLASS-328-186
US-PATENT-3,609,387

N72-17171* c 10 ..... NASA-CASE-XAC-05462-2
US-PATENT-APPL-SN-28235
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US-PATENT-CLASS-328-167
US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-176
US-PATENT-CLASS-333-70CR
US-PATENT-3,609,567

N72-17172* c 10 ..... NASA-CASE-ARC-10020
US-PATENT-APPL-SN-31885
US-PATENT-CLASS-330-107
US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-26
US-PATENT-CLASS-330-31
US-PATENT-CLASS-330-94
US-PATENT-3,605,032

N72-17173* c 10 ..... NASA-CASE-MFS-13130
US-PATENT-APPL-SN-7868
US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-83.3UV
US-PATENT-CLASS-340-228.2
US-PATENT-3,609,364

N72-17183* c 11 ..... NASA-CASE-MFS-20509
US-PATENT-APPL-SN-889557
US-PATENT-CLASS-73-147
US-PATENT-3,602,920

N72-17323* c 14 ..... NASA-CASE-ERC-10248
US-PATENT-APPL-SN-868445
US-PATENT-CLASS-350-162
US-PATENT-CLASS-356-113
US-PATENT-CLASS-356-209
US-PATENT-CLASS-356-244
US-PATENT-3,603,690

N72-17324* c 14 ..... NASA-CASE-MFS-20596
US-PATENT-APPL-SN-7867
US-PATENT-CLASS-350-3.5
US-PATENT-3,605,519

N72-17325* c 14 ..... NASA-CASE-MSC-15158-1
US-PATENT-APPL-SN-889479
US-PATENT-CLASS-324-52
US-PATENT-3,609,535

N72-17326* c 14 ..... NASA-CASE-XMS-01994-1
US-PATENT-APPL-SN-814212
US-PATENT-CLASS-356-4
US-PATENT-3,603,683

N72-17327* c 14 ..... NASA-CASE-LEW-10281-1
US-PATENT-APPL-SN-861649
US-PATENT-CLASS-73-198
US-PATENT-3,605,495

N72-17328* c 14 ..... NASA-CASE-XLA-07813
US-PATENT-APPL-SN-791364
US-PATENT-CLASS-250-207
US-PATENT-CLASS-250-41.9
US-PATENT-CLASS-250-49.5
US-PATENT-CLASS-250-71.5
US-PATENT-CLASS-250-83.3
US-PATENT-3,609,353

N72-17329* c 14 ..... NASA-CASE-FRC-10012
US-PATENT-APPL-SN-771216
US-PATENT-CLASS-73-194A
US-PATENT-3,611,801

N72-17450* c 15 ..... NASA-CASE-MSC-12279
US-PATENT-APPL-SN-24154
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US-PATENT-CLASS-188-129
US-PATENT-3,603,433

N72-17451* c 15 ..... NASA-CASE-WLP-10002
US-PATENT-APPL-SN-47062
US-PATENT-CLASS-180-125
US-PATENT-CLASS-180-127
US-PATENT-CLASS-308-DIG.1
US-PATENT-CLASS-308-5
US-PATENT-CLASS-308-9
US-PATENT-3,610,365

N72-17452* c 15 ..... NASA-CASE-XLA-10322
US-PATENT-APPL-SN-887699
US-PATENT-CLASS-73-88.5R
US-PATENT-3,608,365

N72-17453* c 15 ..... NASA-CASE-NPO-11177
US-PATENT-APPL-SN-20960
US-PATENT-CLASS-62-51
US-PATENT-3,605,424

N72-17454* c 15 ..... NASA-CASE-NPO-11059
US-PATENT-APPL-SN-864020
US-PATENT-CLASS-248-14
US-PATENT-3,606,979

N72-17455* c 15 ..... NASA-CASE-NPO-11140
US-PATENT-APPL-SN-15019
US-PATENT-CLASS-174-84
US-PATENT-CLASS-200-64
US-PATENT-CLASS-339-176M
US-PATENT-CLASS-339-278M
US-PATENT-CLASS-339-46
US-PATENT-CLASS-89-1.811
US-PATENT-3,611,274

N72-17532* c 18 ..... NASA-CASE-MFS-13532
US-PATENT-APPL-SN-720546
US-PATENT-CLASS-106-292
US-PATENT-CLASS-106-299
US-PATENT-3,607,338

N72-17747* c 23 ..... NASA-CASE-ERC-10089
US-PATENT-APPL-SN-791267
US-PATENT-CLASS-340-174AG
US-PATENT-CLASS-340-174CT
US-PATENT-CLASS-340-174GA
US-PATENT-CLASS-340-174SC
US-PATENT-3,611,330

N72-17820* c 26 ..... NASA-CASE-XER-08476-1
US-PATENT-APPL-SN-672388
US-PATENT-CLASS-148-187
US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-589
US-PATENT-3,602,984

N72-17843* c 28 ..... NASA-CASE-NPO-10046
US-PATENT-APPL-SN-860635
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-39.74
US-PATENT-3,603,092

N72-17873* c 30 ..... NASA-CASE-ARC-10134
US-PATENT-APPL-SN-819898
US-PATENT-CLASS-244-3.21
US-PATENT-3,603,532

N72-17947* c 33 ..... NASA-CASE-MSC-12143-1
US-PATENT-APPL-SN-791268
US-PATENT-CLASS-102-105
US-PATENT-CLASS-161-67
US-PATENT-CLASS-244-117
US-PATENT-3,603,260

N72-17948* c 33 ..... NASA-CASE-NPO-10828
US-PATENT-APPL-SN-873260
US-PATENT-CLASS-165-105
US-PATENT-3,603,382

N72-18184* c 08 ..... NASA-CASE-NPO-10629
US-PATENT-APPL-SN-860751
US-PATENT-CLASS-178-50
US-PATENT-CLASS-178-66
US-PATENT-CLASS-179-15
US-PATENT-CLASS-235-154
US-PATENT-CLASS-340-347DD
US-PATENT-3,603,976

N72-18411* c 14 ..... NASA-CASE-KSC-10294
US-PATENT-APPL-SN-889556
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US-PATENT-CLASS-346-107A
US-PATENT-CLASS-346-23
US-PATENT-CLASS-352-84
US-PATENT-CLASS-95-1.1
US-PATENT-3,603,974

N72-18477* c 15 ..... NASA-CASE-GSC-10566-1
US-PATENT-APPL-SN-889438
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US-PATENT-CLASS-52-108
US-PATENT-3,608,844

N72-18766* c 28 ..... NASA-CASE-GSC-10640-1
US-PATENT-APPL-SN-17101
US-PATENT-CLASS-23-281
US-PATENT-CLASS-23-288
US-PATENT-CLASS-60-260
US-PATENT-3,603,093

N72-18859* c 31 ..... NASA-CASE-MSC-13281
US-PATENT-APPL-SN-7669
US-PATENT-CLASS-244-15.5

US-PATENT-3,606,212
N72-20031* c 03 ..... NASA-CASE-GSC-10669-1
US-PATENT-APPL-SN-90595
US-PATENT-CLASS-136-89
US-PATENT-CLASS-244-ISS
US-PATENT-CLASS-340-210
US-PATENT-3,636,539
N72-20032* c 03 ..... NASA-CASE-NPO-11021
US-PATENT-APPL-SN-880250
US-PATENT-CLASS-136-166
US-PATENT-CLASS-136-79
US-PATENT-CLASS-136-81
US-PATENT-3,625,766
N72-20033* c 03 ..... NASA-CASE-NPO-10401
US-PATENT-APPL-SN-15025
US-PATENT-CLASS-210-212
US-PATENT-CLASS-356-222
US-PATENT-3,630,627
N72-20034* c 03 ..... NASA-CASE-LEW-11359-2
US-PATENT-APPL-SN-57399
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US-PATENT-CLASS-136-175
US-PATENT-CLASS-136-83R
US-PATENT-3,635,765
N72-20096* c 05 ..... NASA-CASE-MSC-12411-1
US-PATENT-APPL-SN-701244
US-PATENT-CLASS-128-142.5
US-PATENT-CLASS-128-402
US-PATENT-CLASS-2-2.1
US-PATENT-3,635,216
N72-20097* c 05 ..... NASA-CASE-MFS-20332
US-PATENT-APPL-SN-869260
US-PATENT-CLASS-137-469
US-PATENT-CLASS-137-81
US-PATENT-3,636,966
N72-20098* c 05 ..... NASA-CASE-MSC-12398
US-PATENT-APPL-SN-785615
US-PATENT-CLASS-2-2.1
US-PATENT-3,624,839
N72-20121* c 06 ..... NASA-CASE-NPO-10765
US-PATENT-APPL-SN-770425
US-PATENT-CLASS-260-544F
US-PATENT-3,637,842
N72-20140* c 07 ..... NASA-CASE-NPO-10844
US-PATENT-APPL-SN-839934
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US-PATENT-CLASS-179-15BS
US-PATENT-CLASS-325-321
US-PATENT-CLASS-325-38
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-58
US-PATENT-3,626,298
N72-20141* c 07 ..... NASA-CASE-ERC-10179
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US-PATENT-CLASS-329-161
US-PATENT-CLASS-329-162
US-PATENT-CLASS-332-51W
US-PATENT-CLASS-333-73W
US-PATENT-CLASS-343-772
US-PATENT-CLASS-343-773
US-PATENT-CLASS-343-786
US-PATENT-3,633,110
N72-20154*# c 07 ..... NASA-CASE-NPO-11243
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N72-20176* c 08 ..... NASA-CASE-NPO-11130
US-PATENT-APPL-SN-21508
US-PATENT-CLASS-235-152
US-PATENT-CLASS-235-92CC
US-PATENT-CLASS-235-92DE
US-PATENT-CLASS-235-92DM
US-PATENT-CLASS-235-92LG
US-PATENT-CLASS-235-92R
US-PATENT-CLASS-340-347DA
US-PATENT-CLASS-340-347DD
US-PATENT-3,632,996
N72-20177* c 08 ..... NASA-CASE-NPO-10748
US-PATENT-APPL-SN-63383
US-PATENT-CLASS-324-77G
US-PATENT-3,631,339
N72-20199* c 09 ..... NASA-CASE-NPO-10722
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US-PATENT-CLASS-200-81.9M
US-PATENT-CLASS-335-205
US-PATENT-3,632,923
N72-20200* c 09 ..... NASA-CASE-NPO-10694
US-PATENT-APPL-SN-24224
US-PATENT-CLASS-339-275T
US-PATENT-CLASS-339-276T
US-PATENT-3,631,382
N72-20206*# c 09 ..... NASA-CASE-ERC-10468
US-PATENT-APPL-SN-144958
N72-20221* c 10 ..... NASA-CASE-GSC-10082-1
US-PATENT-APPL-SN-41430
US-PATENT-CLASS-307-273
US-PATENT-CLASS-307-288
US-PATENT-CLASS-307-313
US-PATENT-CLASS-328-207
US-PATENT-CLASS-330-30D
US-PATENT-3,633,048
N72-20222* c 10 ..... NASA-CASE-XLA-11189
US-PATENT-APPL-SN-889375
US-PATENT-CLASS-324-115
US-PATENT-CLASS-324-132
US-PATENT-3,638,114
N72-20223* c 10 ..... NASA-CASE-NPO-11133
US-PATENT-APPL-SN-887685
US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-16
US-PATENT-CLASS-328-166
US-PATENT-CLASS-328-20
US-PATENT-CLASS-328-38
US-PATENT-3,626,308
N72-20224* c 10 ..... NASA-CASE-NPO-11203
US-PATENT-APPL-SN-3696
US-PATENT-CLASS-324-83A
US-PATENT-CLASS-324-85
US-PATENT-CLASS-328-133
US-PATENT-CLASS-343-12
US-PATENT-3,631,351
N72-20225* c 10 ..... NASA-CASE-MSC-13407-1
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US-PATENT-CLASS-315-22
US-PATENT-CLASS-315-25
US-PATENT-3,638,066
N72-20244* c 11 ..... NASA-CASE-NPO-11210
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US-PATENT-CLASS-180-105E
US-PATENT-CLASS-318-308
US-PATENT-CLASS-318-327
US-PATENT-CLASS-318-376
US-PATENT-3,630,304
N72-20379* c 14 ..... NASA-CASE-GSC-10514-1
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US-PATENT-CLASS-250-208
US-PATENT-CLASS-356-138
US-PATENT-CLASS-356-152
US-PATENT-3,637,312
N72-20380* c 14 ..... NASA-CASE-LAR-10176-1
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US-PATENT-CLASS-95-18
US-PATENT-3,626,828
N72-20381* c 14 ..... NASA-CASE-GSC-10503-1
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US-PATENT-CLASS-250-83.6R
US-PATENT-3,626,189
N72-20442* c 15 ..... NASA-CASE-GSC-10607-1
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US-PATENT-CLASS-251-333
US-PATENT-3,632,081
N72-20443* c 15 ..... NASA-CASE-NPO-10671
US-PATENT-APPL-SN-857967
US-PATENT-CLASS-188-1B
US-PATENT-CLASS-188-1C
US-PATENT-CLASS-188-268
US-PATENT-3,637,051
N72-20444* c 15 ..... NASA-CASE-FRC-10038
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US-PATENT-CLASS-29-412
US-PATENT-CLASS-29-426
US-PATENT-CLASS-29-527.2
US-PATENT-CLASS-29-624
US-PATENT-CLASS-51-216
US-PATENT-CLASS-51-320
US-PATENT-CLASS-51-323
US-PATENT-3,636,623
N72-20445* c 15 ..... NASA-CASE-NPO-10704
US-PATENT-APPL-SN-59895
US-PATENT-CLASS-138-178
US-PATENT-CLASS-285-18
US-PATENT-CLASS-285-345
US-PATENT-3,632,140
N72-20446* c 15 ..... NASA-CASE-MFS-20698
US-PATENT-APPL-SN-3418
US-PATENT-CLASS-100-299
US-PATENT-CLASS-23-209.1
US-PATENT-CLASS-264-22
US-PATENT-CLASS-425-77
US-PATENT-3,632,242
N72-20597* c 22 ..... NASA-CASE-XLE-04599
US-PATENT-APPL-SN-751215
US-PATENT-CLASS-176-86G
US-PATENT-3,629,068
N72-20758* c 28 ..... NASA-CASE-XNP-03282
US-PATENT-APPL-SN-745337
US-PATENT-CLASS-60-254
US-PATENT-3,636,711
N72-20840*# c 31 ..... NASA-CASE-MFS-20922
US-PATENT-APPL-SN-220274
N72-20915* c 33 ..... NASA-CASE-NPO-10831
US-PATENT-APPL-SN-10161
US-PATENT-CLASS-122-32
US-PATENT-CLASS-165-133
US-PATENT-CLASS-165-155
US-PATENT-CLASS-165-158
US-PATENT-CLASS-165-161
US-PATENT-CLASS-165-174
US-PATENT-3,630,276
N72-21094* c 06 ..... NASA-CASE-ERC-10108
US-PATENT-APPL-SN-833049
US-PATENT-CLASS-156-3
US-PATENT-CLASS-96-36.2
US-PATENT-3,615,465
N72-21105*# c 06 ..... NASA-CASE-GSC-11304-1
US-PATENT-APPL-SN-137912
N72-21117* c 07 ..... NASA-CASE-XLA-11154
US-PATENT-APPL-SN-23532
US-PATENT-CLASS-343-706
US-PATENT-CLASS-343-912
US-PATENT-3,623,107
N72-21118* c 07 ..... NASA-CASE-NPO-11001
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US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-6.5R
US-PATENT-3,624,650
N72-21119* c 07 ..... NASA-CASE-ERC-10112
US-PATENT-APPL-SN-796690
US-PATENT-CLASS-179-100.2K
US-PATENT-3,614,343
N72-21197* c 08 ..... NASA-CASE-KSC-10326
US-PATENT-APPL-SN-25487
US-PATENT-CLASS-235-155
US-PATENT-CLASS-340-347DD
US-PATENT-3,638,002
N72-21198* c 08 ..... NASA-CASE-ERC-10307
US-PATENT-APPL-SN-39755
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US-PATENT-CLASS-307-303
US-PATENT-CLASS-307-311
US-PATENT-CLASS-340-173.2
US-PATENT-CLASS-340-173LS
US-PATENT-3,623,030
N72-21199* c 08 ..... NASA-CASE-NPO-10743
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US-PATENT-CLASS-340-174LC
US-PATENT-CLASS-340-174M
US-PATENT-CLASS-340-174SR
US-PATENT-3,613,110
N72-21200* c 08 ..... NASA-CASE-NPO-11018
US-PATENT-APPL-SN-873259
US-PATENT-CLASS-340-347AD
US-PATENT-3,613,111
N72-21243* c 09 ..... NASA-CASE-LEW-11005-1
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US-PATENT-CLASS-323-22T
US-PATENT-CLASS-323-38
US-PATENT-3,638,103
N72-21244* c 09 ..... NASA-CASE-LAR-10545-1
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US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-893
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US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-142
US-PATENT-CLASS-328-167
US-PATENT-CLASS-330-70R
US-PATENT-CLASS-330-85
US-PATENT-CLASS-333-80
US-PATENT-3,621,407
N72-21246* c 09 ..... NASA-CASE-NPO-11134
US-PATENT-APPL-SN-883524
US-PATENT-CLASS-318-576
US-PATENT-CLASS-324-71R
US-PATENT-CLASS-346-1
US-PATENT-CLASS-346-29
US-PATENT-3,624,659
N72-21247* c 09 ..... NASA-CASE-KSC-10393
US-PATENT-APPL-SN-71047
US-PATENT-CLASS-307-257
US-PATENT-CLASS-307-259
US-PATENT-CLASS-331-111
US-PATENT-CLASS-331-14
US-PATENT-CLASS-331-23
US-PATENT-CLASS-331-30
US-PATENT-3,614,648
N72-21248*# c 09 ..... NASA-CASE-LAR-10503-1
US-PATENT-APPL-SN-229143
N72-21310* c 12 ..... NASA-CASE-MFS-20829
US-PATENT-APPL-SN-61894
US-PATENT-CLASS-169-28

US-PATENT-CLASS-169-36
US-PATENT-3,613,794

N72-21405* c 14 ..... NASA-CASE-NPO-10832
US-PATENT-APPL-SN-22265
US-PATENT-CLASS-73-141A
US-PATENT-3,623,360

N72-21407* c 14 ..... NASA-CASE-MFS-20642
US-PATENT-APPL-SN-873793
US-PATENT-CLASS-73-147
US-PATENT-3,623,361

N72-21408* c 14 ..... NASA-CASE-MSC-13332-1
US-PATENT-APPL-SN-77169
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-250-83.3H
US-PATENT-3,614,431

N72-21409* c 14 ..... NASA-CASE-MSC-12105-1
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US-PATENT-CLASS-356-17
US-PATENT-CLASS-356-18
US-PATENT-3,614,228

N72-21462* c 15 ..... NASA-CASE-NPO-10679
US-PATENT-APPL-SN-848282
US-PATENT-CLASS-74-89.15
US-PATENT-3,614,898

N72-21463* c 15 ..... NASA-CASE-MFS-20413
US-PATENT-APPL-SN-69209
US-PATENT-CLASS-74-469
US-PATENT-3,620,095

N72-21464* c 15 ..... NASA-CASE-ARC-10176-1
US-PATENT-APPL-SN-889583
US-PATENT-CLASS-324-57R
US-PATENT-CLASS-324-64
US-PATENT-CLASS-324-71R
US-PATENT-3,624,496

N72-21465* c 15 ..... NASA-CASE-GSC-10218-1
US-PATENT-APPL-SN-15022
US-PATENT-CLASS-141-23
US-PATENT-CLASS-195-127
US-PATENT-CLASS-222-135
US-PATENT-CLASS-222-309
US-PATENT-CLASS-222-71
US-PATENT-CLASS-23-253R
US-PATENT-CLASS-23-259
US-PATENT-CLASS-73-425.6
US-PATENT-3,615,241

N72-21466* c 15 ..... NASA-CASE-NPO-10440
US-PATENT-APPL-SN-756834
US-PATENT-CLASS-204-130
US-PATENT-CLASS-204-59
US-PATENT-3,616,338

N72-21489*# c 15 ..... NASA-CASE-XLA-10470
US-PATENT-APPL-SN-219436

N72-21624* c 21 ..... NASA-CASE-HQN-10439
US-PATENT-APPL-SN-889551
US-PATENT-CLASS-244-1SA
US-PATENT-3,637,170

N72-21701* c 26 ..... NASA-CASE-ERC-10119
US-PATENT-APPL-SN-825258
US-PATENT-CLASS-307-299
US-PATENT-CLASS-317-234V
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-331-107
US-PATENT-CLASS-332-31
US-PATENT-3,614,557

N72-21893*# c 31 ..... NASA-CASE-KSC-10622-1
US-PATENT-APPL-SN-149983

N72-22041* c 03 ..... NASA-CASE-NPO-10591
US-PATENT-APPL-SN-776185
US-PATENT-CLASS-29-572
US-PATENT-3,616,528

N72-22042* c 03 ..... NASA-CASE-NPO-10747
US-PATENT-APPL-SN-6616
US-PATENT-CLASS-136-89
US-PATENT-3,615,853

N72-22092* c 05 ..... NASA-CASE-ARC-10275-1
US-PATENT-APPL-SN-21644
US-PATENT-CLASS-2-2.1A
US-PATENT-3,636,564

N72-22093* c 05 ..... NASA-CASE-MSC-12324-1
US-PATENT-APPL-SN-63384
US-PATENT-CLASS-128-295
US-PATENT-CLASS-4-110
US-PATENT-CLASS-4-99
US-PATENT-3,602,923

N72-22107* c 06 ..... NASA-CASE-NPO-10862
US-PATENT-APPL-SN-810815
US-PATENT-CLASS-260-877
US-PATENT-3,639,510

N72-22127* c 07 ..... NASA-CASE-NPO-10303
US-PATENT-APPL-SN-848776
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-CLASS-343-912
US-PATENT-3,623,114

N72-22162* c 08 ..... NASA-CASE-NPO-11333
US-PATENT-APPL-SN-78065
US-PATENT-CLASS-178-52
US-PATENT-CLASS-179-15A
US-PATENT-CLASS-179-15BL
US-PATENT-CLASS-307-243
US-PATENT-CLASS-307-251
US-PATENT-CLASS-328-104
US-PATENT-CLASS-328-154
US-PATENT-3,614,327

N72-22163* c 08 ..... NASA-CASE-MSC-13110-1
US-PATENT-APPL-SN-23132
US-PATENT-CLASS-340-347AD
US-PATENT-3,614,772

N72-22164* c 08 ..... NASA-CASE-NPO-10745
US-PATENT-APPL-SN-878730
US-PATENT-CLASS-178-DIG.28
US-PATENT-CLASS-178-DIG.36
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-178-7.2R
US-PATENT-3,621,130

N72-22165* c 08 ..... NASA-CASE-NPO-11104
US-PATENT-APPL-SN-860750
US-PATENT-CLASS-235-150.52
US-PATENT-CLASS-235-150.53
US-PATENT-CLASS-235-183
US-PATENT-CLASS-235-194
US-PATENT-CLASS-235-197
US-PATENT-CLASS-340-347R
US-PATENT-3,621,228

N72-22166* c 08 ..... NASA-CASE-NPO-10560
US-PATENT-APPL-SN-856282
US-PATENT-CLASS-235-153
US-PATENT-CLASS-324-73AT
US-PATENT-CLASS-340-347AD
US-PATENT-3,603,772

N72-22167* c 08 ..... NASA-CASE-NPO-11082
US-PATENT-APPL-SN-868529
US-PATENT-CLASS-235-152
US-PATENT-CLASS-340-146.1
US-PATENT-CLASS-340-348
US-PATENT-3,609,327

N72-22195* c 09 ..... NASA-CASE-MFS-14710
US-PATENT-APPL-SN-852843
US-PATENT-CLASS-74-105
US-PATENT-3,614,899

N72-22196* c 09 ..... NASA-CASE-ERC-10075-2
US-PATENT-APPL-SN-775870
US-PATENT-CLASS-321-14
US-PATENT-CLASS-321-19
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-25
US-PATENT-CLASS-323-56
US-PATENT-CLASS-323-89C
US-PATENT-3,614,587

N72-22197* c 09 ..... NASA-CASE-LEW-10433-1
US-PATENT-APPL-SN-849106
US-PATENT-CLASS-307-262
US-PATENT-CLASS-307-88MP
US-PATENT-3,612,895

N72-22198* c 09 ..... NASA-CASE-MFS-13687-2
US-PATENT-APPL-SN-80369
US-PATENT-CLASS-174-106R
US-PATENT-CLASS-174-117FF
US-PATENT-CLASS-174-36
US-PATENT-3,612,743

N72-22199* c 09 ..... NASA-CASE-ERC-10222
US-PATENT-APPL-SN-832603
US-PATENT-CLASS-29-590
US-PATENT-3,621,565

N72-22200* c 09 ..... NASA-CASE-FRC-10036
US-PATENT-APPL-SN-872602
US-PATENT-CLASS-307-237
US-PATENT-CLASS-307-254
US-PATENT-CLASS-307-317
US-PATENT-CLASS-328-1
US-PATENT-CLASS-328-151
US-PATENT-CLASS-73-88.5
US-PATENT-3,621,285

N72-22201* c 09 ..... NASA-CASE-LEW-10387
US-PATENT-APPL-SN-76899
US-PATENT-CLASS-307-223B
US-PATENT-CLASS-307-241
US-PATENT-CLASS-307-252J
US-PATENT-CLASS-307-252K
US-PATENT-CLASS-307-284
US-PATENT-CLASS-307-304
US-PATENT-CLASS-307-317
US-PATENT-CLASS-328-106
US-PATENT-3,621,287

N72-22202* c 09 ..... NASA-CASE-ARC-10136-1
US-PATENT-APPL-SN-865106
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2R
US-PATENT-CLASS-307-231
US-PATENT-CLASS-307-247
US-PATENT-CLASS-307-288
US-PATENT-CLASS-325-29
US-PATENT-CLASS-325-492
US-PATENT-CLASS-340-171
US-PATENT-CLASS-340-203
US-PATENT-3,621,290

N72-22203* c 09 ..... NASA-CASE-XER-11046
US-PATENT-APPL-SN-810579
US-PATENT-CLASS-321-15
US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45
US-PATENT-CLASS-331-117
US-PATENT-3,621,362

N72-22204* c 09 ..... NASA-CASE-LAR-10137-1
US-PATENT-APPL-SN-881041
US-PATENT-CLASS-200-81R
US-PATENT-CLASS-200-82C
US-PATENT-3,609,271

N72-22235* c 10 ..... NASA-CASE-GSC-10064-1
US-PATENT-APPL-SN-802812
US-PATENT-CLASS-343-16M
US-PATENT-CLASS-343-7.4
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-786
US-PATENT-3,623,094

N72-22236* c 10 ..... NASA-CASE-GSC-10878-1
US-PATENT-APPL-SN-889423
US-PATENT-CLASS-307-206
US-PATENT-CLASS-307-215
US-PATENT-CLASS-307-322
US-PATENT-CLASS-307-323
US-PATENT-3,621,277

N72-22245* c 11 ..... NASA-CASE-NPO-12109
US-PATENT-APPL-SN-690172
US-PATENT-CLASS-230-221
US-PATENT-CLASS-230-54
US-PATENT-3,612,391

N72-22246* c 11 ..... NASA-CASE-XLA-07430
US-PATENT-APPL-SN-867841
US-PATENT-CLASS-73-147
US-PATENT-3,620,076

N72-22247* c 11 ..... NASA-CASE-NPO-11013
US-PATENT-APPL-SN-858695
US-PATENT-CLASS-42-1F
US-PATENT-3,619,924

N72-22437* c 14 ..... NASA-CASE-LAR-10496-1
US-PATENT-APPL-SN-12661
US-PATENT-CLASS-73-141A
US-PATENT-3,611,798

N72-22438* c 14 ..... NASA-CASE-ARC-10263-1
US-PATENT-APPL-SN-882122
US-PATENT-CLASS-73-398C
US-PATENT-3,620,083

N72-22439* c 14 ..... NASA-CASE-MFS-20890
US-PATENT-APPL-SN-103229
US-PATENT-CLASS-264-22
US-PATENT-CLASS-29-421
US-PATENT-CLASS-310-11
US-PATENT-CLASS-310-42
US-PATENT-3,626,218

N72-22440* c 14 ..... NASA-CASE-ARC-10154-1
US-PATENT-APPL-SN-793771
US-PATENT-CLASS-73-67.2
US-PATENT-3,620,069

N72-22441* c 14 ..... NASA-CASE-NPO-11002
US-PATENT-APPL-SN-856328
US-PATENT-CLASS-350-19
US-PATENT-CLASS-350-23
US-PATENT-CLASS-350-26
US-PATENT-CLASS-350-35
US-PATENT-CLASS-350-36
US-PATENT-CLASS-350-49
US-PATENT-CLASS-350-52
US-PATENT-3,612,645

N72-22442* c 14 ..... NASA-CASE-MFS-21629
US-PATENT-APPL-SN-612265
US-PATENT-CLASS-324-61
US-PATENT-CLASS-73-304
US-PATENT-3,639,835

N72-22443* c 14 ..... NASA-CASE-XGS-03736
US-PATENT-APPL-SN-749320
US-PATENT-CLASS-252-300
US-PATENT-CLASS-96-90PC
US-PATENT-3,639,250

N72-22444* c 14 ..... NASA-CASE-LAR-10523-1
US-PATENT-APPL-SN-32665
US-PATENT-CLASS-250-203
US-PATENT-CLASS-350-16
US-PATENT-CLASS-350-52
US-PATENT-CLASS-356-248
US-PATENT-3,647,276

N72-22445* c 14 ..... NASA-CASE-LAR-10184
US-PATENT-APPL-SN-16808
US-PATENT-CLASS-33-174S
US-PATENT-CLASS-350-86
US-PATENT-3,620,595

N72-22482* c 15 ..... NASA-CASE-XLA-04897
US-PATENT-APPL-SN-880249
US-PATENT-CLASS-73-133
US-PATENT-3,613,457

N72-22483* c 15 ..... NASA-CASE-XNP-09770-2
US-PATENT-APPL-SN-864039
US-PATENT-CLASS-209-349
US-PATENT-3,615,021

N72-22484* c 15 ..... NASA-CASE-LAR-10031
US-PATENT-APPL-SN-867851
US-PATENT-CLASS-62-55.5
US-PATENT-3,625,018

N72-22485* c 15 ..... NASA-CASE-MSC-13512-1
US-PATENT-APPL-SN-73932
US-PATENT-CLASS-74-501R
US-PATENT-3,625,084

N72-22486* c 15 ..... NASA-CASE-KSC-10031
US-PATENT-APPL-SN-98773
US-PATENT-CLASS-220-5R
US-PATENT-CLASS-317-101DH
US-PATENT-CLASS-317-117
US-PATENT-CLASS-317-120
US-PATENT-3,639,809

N72-22487* c 15 ..... NASA-CASE-GSC-10303
US-PATENT-APPL-SN-802813
US-PATENT-CLASS-29-473.1
US-PATENT-3,619,896

N72-22488* c 15 ..... NASA-CASE-MSC-11849-1
US-PATENT-APPL-SN-6617
US-PATENT-CLASS-85-1
US-PATENT-3,623,394

N72-22489* c 15 ..... NASA-CASE-GSC-10518-1
US-PATENT-APPL-SN-789045
US-PATENT-CLASS-417-152
US-PATENT-CLASS-55-446
US-PATENT-CLASS-55-464
US-PATENT-3,623,828

N72-22490* c 15 ..... NASA-CASE-LEW-10856-1
US-PATENT-APPL-SN-3417
US-PATENT-CLASS-308-195
US-PATENT-3,620,585

N72-22491* c 15 ..... NASA-CASE-GSC-10913
US-PATENT-APPL-SN-889558
US-PATENT-CLASS-219-158
US-PATENT-CLASS-219-234
US-PATENT-CLASS-219-85
US-PATENT-CLASS-228-57
US-PATENT-CLASS-29-628
US-PATENT-3,621,194

N72-22492* c 15 ..... NASA-CASE-MFS-20482
US-PATENT-APPL-SN-6610
US-PATENT-CLASS-29-472.9
US-PATENT-CLASS-29-473.1
US-PATENT-3,602,979

N72-22520*# c 16 ..... NASA-CASE-LAR-10815-1
US-PATENT-APPL-SN-233587

N72-22530* c 17 ..... NASA-CASE-XLE-06461
US-PATENT-APPL-SN-853855
US-PATENT-CLASS-75-.5B
US-PATENT-3,623,861

N72-22535* c 17 ..... NASA-CASE-LEW-10874-1
US-PATENT-APPL-SN-68024
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-3,620,718

N72-22566* c 18 ..... NASA-CASE-MFS-20011
US-PATENT-APPL-SN-813338
US-PATENT-CLASS-106-286
US-PATENT-CLASS-106-288B
US-PATENT-CLASS-106-84
US-PATENT-3,620,791

N72-22567* c 18 ..... NASA-CASE-NPO-11091
US-PATENT-APPL-SN-860781
US-PATENT-CLASS-260-2.1E
US-PATENT-3,629,161

N72-22619* c 21 ..... NASA-CASE-ARC-10179-1
US-PATENT-APPL-SN-835058
US-PATENT-CLASS-244-114
US-PATENT-CLASS-340-26
US-PATENT-3,624,598

N72-22673* c 23 ..... NASA-CASE-XER-07896-2
US-PATENT-APPL-SN-36819
US-PATENT-CLASS-350-310
US-PATENT-3,620,606

N72-22769* c 28 ..... NASA-CASE-ARC-10106-1
US-PATENT-APPL-SN-812998
US-PATENT-CLASS-244-3.22
US-PATENT-3,612,442

N72-22770* c 28 ..... NASA-CASE-LEW-10770-1
US-PATENT-APPL-SN-880246
US-PATENT-CLASS-60-202
US-PATENT-3,613,370

N72-22771* c 28 ..... NASA-CASE-LEW-10835-1
US-PATENT-APPL-SN-67815
US-PATENT-CLASS-60-202
US-PATENT-3,620,018

N72-22772* c 28 ..... NASA-CASE-NPO-12072
US-PATENT-APPL-SN-82647
US-PATENT-CLASS-123-122AB
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-261-145
US-PATENT-3,640,256

N72-22874* c 31 ..... NASA-CASE-NPO-10883
US-PATENT-APPL-SN-26573
US-PATENT-CLASS-136-89
US-PATENT-CLASS-312-257
US-PATENT-3,620,846

N72-23048* c 03 ..... NASA-CASE-NPO-11388
US-PATENT-APPL-SN-119282
US-PATENT-CLASS-310-2
US-PATENT-CLASS-321-2
US-PATENT-CLASS-322-2
US-PATENT-3,648,152

N72-23085* c 05 ..... NASA-CASE-LAR-10102-1
US-PATENT-APPL-SN-13266
US-PATENT-CLASS-224-25A
US-PATENT-3,649,921

N72-23171* c 09 ..... NASA-CASE-GSC-10221-1
US-PATENT-APPL-SN-779025
US-PATENT-CLASS-307-252N
US-PATENT-CLASS-307-252R
US-PATENT-CLASS-307-259
US-PATENT-CLASS-307-305
US-PATENT-3,621,294

N72-23172* c 09 ..... NASA-CASE-LAR-10320-1
US-PATENT-APPL-SN-18427
US-PATENT-CLASS-324-20R
US-PATENT-3,649,907

N72-23173* c 09 ..... NASA-CASE-ERC-10267
US-PATENT-APPL-SN-41348
US-PATENT-CLASS-235-197
US-PATENT-CLASS-307-229
US-PATENT-CLASS-328-145
US-PATENT-3,648,043

N72-23215* c 11 ..... NASA-CASE-MFS-20710
US-PATENT-APPL-SN-114848
US-PATENT-CLASS-13-20
US-PATENT-CLASS-13-31
US-PATENT-3,647,924

N72-23457* c 14 ..... NASA-CASE-MSC-12297
US-PATENT-APPL-SN-792623
US-PATENT-CLASS-55-493
US-PATENT-CLASS-55-498
US-PATENT-CLASS-55-502
US-PATENT-CLASS-55-521
US-PATENT-3,650,095

N72-23497* c 15 ..... NASA-CASE-KSC-10242
US-PATENT-APPL-SN-73834
US-PATENT-CLASS-219-109
US-PATENT-CLASS-219-234
US-PATENT-CLASS-219-85
US-PATENT-CLASS-324-65R
US-PATENT-3,621,193

N72-23581* c 18 ..... NASA-CASE-GSC-10361-1
US-PATENT-APPL-SN-700040
US-PATENT-CLASS-106-84
US-PATENT-3,620,784

N72-23695* c 23 ..... NASA-CASE-HQN-10541-3
US-PATENT-APPL-SN-822089
US-PATENT-CLASS-350-171
US-PATENT-3,606,522

N72-23809* c 28 ..... NASA-CASE-XNP-09461
US-PATENT-APPL-SN-670829
US-PATENT-CLASS-239-418
US-PATENT-CLASS-239-433
US-PATENT-CLASS-239-543
US-PATENT-3,650,474

N72-23810* c 28 ..... NASA-CASE-NPO-11458
US-PATENT-APPL-SN-36926
US-PATENT-CLASS-60-266
US-PATENT-CLASS-60-271
US-PATENT-3,648,461

N72-24037* c 03 ..... NASA-CASE-GSC-11514-1
US-PATENT-APPL-SN-820453
US-PATENT-CLASS-117-201
US-PATENT-CLASS-136-89
US-PATENT-3,653,970

N72-24477* c 14 ..... NASA-CASE-ARC-10138-1
US-PATENT-APPL-SN-774733
US-PATENT-CLASS-250-83.3H
US-PATENT-CLASS-317-247
US-PATENT-CLASS-324-61R
US-PATENT-CLASS-73-355R
US-PATENT-3,657,644

N72-24522* c 15 ..... NASA-CASE-NPO-11036
US-PATENT-APPL-SN-41346
US-PATENT-CLASS-264-92
US-PATENT-3,658,974

N72-24753* c 25 ..... NASA-CASE-XNP-04167-2
US-PATENT-APPL-SN-866442
US-PATENT-CLASS-313-186
US-PATENT-CLASS-313-212
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-111
US-PATENT-CLASS-315-326
US-PATENT-CLASS-315-358
US-PATENT-CLASS-331-94.5
US-PATENT-3,617,804

N72-25019* c 03 ..... NASA-CASE-NPO-10575
US-PATENT-APPL-SN-6615
US-PATENT-CLASS-156-250
US-PATENT-CLASS-156-510
US-PATENT-3,654,036

N72-25020* c 03 ..... NASA-CASE-GSC-11211-1
US-PATENT-APPL-SN-139528
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-307-141.8
US-PATENT-CLASS-320-48
US-PATENT-CLASS-324-29.5
US-PATENT-3,663,938

N72-25021* c 03 ..... NASA-CASE-NPO-11118
US-PATENT-APPL-SN-8650
US-PATENT-CLASS-214-90R
US-PATENT-3,666,120

N72-25119* c 05 ..... NASA-CASE-MSC-12397-1
US-PATENT-APPL-SN-785613
US-PATENT-CLASS-2-115
US-PATENT-CLASS-2-2.1
US-PATENT-3,660,851

N72-25120* c 05 ..... NASA-CASE-MSC-90153-2
US-PATENT-APPL-SN-844225
US-PATENT-CLASS-106-209
US-PATENT-CLASS-128-2.1
US-PATENT-CLASS-128-417
US-PATENT-CLASS-252-514
US-PATENT-CLASS-264-104
US-PATENT-3,665,064

N72-25121* c 05 ..... NASA-CASE-FRC-10029-2
US-PATENT-APPL-SN-78704
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-308
US-PATENT-CLASS-29-25.14
US-PATENT-CLASS-29-25.18
US-PATENT-CLASS-29-482
US-PATENT-CLASS-29-630A
US-PATENT-3,662,441

N72-25122* c 05 ..... NASA-CASE-MSC-13609-1
US-PATENT-APPL-SN-94347
US-PATENT-CLASS-128-2N
US-PATENT-3,662,744

N72-25146* c 06 ..... NASA-CASE-NPO-11322
US-PATENT-APPL-SN-87550
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-73-23.1
US-PATENT-3,666,942

N72-25147* c 06 ..... NASA-CASE-ARC-10325
US-PATENT-APPL-SN-63610
US-PATENT-CLASS-260-2.5FP
US-PATENT-3,663,464

N72-25148* c 06 ..... NASA-CASE-MFS-13994-2
US-PATENT-APPL-SN-870689
US-PATENT-CLASS-260-348SC
US-PATENT-3,660,434

N72-25149* c 06 ..... NASA-CASE-GSC-10565-1
US-PATENT-APPL-SN-822039
US-PATENT-CLASS-195-103.5R
US-PATENT-CLASS-195-28N
US-PATENT-CLASS-260-211.5
US-PATENT-3,660,240

N72-25150* c 06 ..... NASA-CASE-XLE-06774-2
US-PATENT-APPL-SN-5114
US-PATENT-CLASS-117-132
US-PATENT-CLASS-117-161
US-PATENT-CLASS-260-2.5
US-PATENT-CLASS-260-92.1
US-PATENT-3,666,741

N72-25151* c 06 ..... NASA-CASE-MFS-20979
US-PATENT-APPL-SN-100774
US-PATENT-CLASS-260-18S
US-PATENT-CLASS-260-448.2D
US-PATENT-CLASS-260-46.5E
US-PATENT-CLASS-260-46.5G
US-PATENT-CLASS-260-46.5P
US-PATENT-3,666,718

N72-25152* c 06 ..... NASA-CASE-NPO-10863-2
US-PATENT-APPL-SN-145026
US-PATENT-CLASS-260-92.1
US-PATENT-3,663,521

N72-25170* c 07 ..... NASA-CASE-LAR-10513-1
US-PATENT-APPL-SN-64723
US-PATENT-CLASS-333-7
US-PATENT-CLASS-333-81R
US-PATENT-CLASS-333-98P
US-PATENT-CLASS-333-98R
US-PATENT-CLASS-333-98S
US-PATENT-3,649,935

N72-25171* c 07 ..... NASA-CASE-MFS-21042

US-PATENT-APPL-SN-86417
US-PATENT-CLASS-102-34.4
US-PATENT-CLASS-325-114
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-6.5R
US-PATENT-3,667,044

N72-25172* c 07 ..... NASA-CASE-NPO-11358
US-PATENT-APPL-SN-116786
US-PATENT-CLASS-179-15BV
US-PATENT-CLASS-340-172.5
US-PATENT-3,665,417

N72-25173* c 07 ..... NASA-CASE-ERC-10324
US-PATENT-APPL-SN-54270
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-325-141
US-PATENT-CLASS-325-302
US-PATENT-CLASS-325-325
US-PATENT-CLASS-325-38
US-PATENT-CLASS-325-51
US-PATENT-CLASS-325-55
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-64
US-PATENT-CLASS-340-167
US-PATENT-3,665,313

N72-25174* c 07 ..... NASA-CASE-NPO-11264
US-PATENT-APPL-SN-36531
US-PATENT-CLASS-343-762
US-PATENT-CLASS-343-777
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-853
US-PATENT-3,665,481

N72-25206* c 08 ..... NASA-CASE-KSC-10397
US-PATENT-APPL-SN-25488
US-PATENT-CLASS-235-154
US-PATENT-CLASS-340-347DA
US-PATENT-3,648,275

N72-25207* c 08 ..... NASA-CASE-NPO-11161
US-PATENT-APPL-SN-889374
US-PATENT-CLASS-340-146.1
US-PATENT-CLASS-340-172.5
US-PATENT-3,648,256

N72-25208* c 08 ..... NASA-CASE-NPO-11338
US-PATENT-APPL-SN-89212
US-PATENT-CLASS-178-50
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-179-15FD
US-PATENT-CLASS-325-62
US-PATENT-CLASS-332-21
US-PATENT-3,659,053

N72-25209* c 08 ..... NASA-CASE-NPO-11194
US-PATENT-APPL-SN-63532
US-PATENT-CLASS-343-12R
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-6.5R
US-PATENT-3,659,292

N72-25210* c 08 ..... NASA-CASE-NPO-10636
US-PATENT-APPL-SN-77221
US-PATENT-CLASS-235-152
US-PATENT-CLASS-340-146.1AL
US-PATENT-3,662,337

N72-25247* c 09 ..... NASA-CASE-LAR-10163-1
US-PATENT-APPL-SN-73310
US-PATENT-CLASS-343-708
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-873
US-PATENT-3,653,052

N72-25248* c 09 ..... NASA-CASE-NPO-11342
US-PATENT-APPL-SN-89209
US-PATENT-CLASS-340-172.5
US-PATENT-CLASS-340-324A
US-PATENT-3,648,250

N72-25249* c 09 ..... NASA-CASE-GSC-10656-1
US-PATENT-APPL-SN-59969
US-PATENT-CLASS-321-2
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-323-17
US-PATENT-CLASS-323-22T
US-PATENT-3,621,372

N72-25250* c 09 ..... NASA-CASE-KSC-10565
US-PATENT-APPL-SN-98517
US-PATENT-CLASS-315-135
US-PATENT-CLASS-315-349
US-PATENT-CLASS-330-2
US-PATENT-CLASS-330-59
US-PATENT-CLASS-340-332
US-PATENT-3,659,148

N72-25251* c 09 ..... NASA-CASE-ERC-10048
US-PATENT-APPL-SN-10329
US-PATENT-CLASS-307-261
US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-2
US-PATENT-3,659,184

N72-25252* c 09 ..... NASA-CASE-ERC-10268
US-PATENT-APPL-SN-39342
US-PATENT-CLASS-321-11
US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-19
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45ER
US-PATENT-CLASS-321-45R
US-PATENT-3,663,940

N72-25253* c 09 ..... NASA-CASE-GSC-11126-1
US-PATENT-APPL-SN-98640
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-47
US-PATENT-CLASS-331-113A
US-PATENT-3,663,941

N72-25254* c 09 ..... NASA-CASE-NPO-10760
US-PATENT-APPL-SN-129071
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45R
US-PATENT-CLASS-331-113A
US-PATENT-3,663,944

N72-25255* c 09 ..... NASA-CASE-LAR-10620-1
US-PATENT-APPL-SN-125979
US-PATENT-CLASS-310-10
US-PATENT-CLASS-310-15
US-PATENT-3,663,843

N72-25256* c 09 ..... NASA-CASE-XLA-02609
US-PATENT-APPL-SN-41347
US-PATENT-CLASS-333-79
US-PATENT-CLASS-339-143R
US-PATENT-CLASS-339-147R
US-PATENT-3,663,929

N72-25257* c 09 ..... NASA-CASE-MSC-12395
US-PATENT-APPL-SN-134573
US-PATENT-CLASS-307-233
US-PATENT-CLASS-324-186
US-PATENT-CLASS-324-78D
US-PATENT-CLASS-328-136
US-PATENT-CLASS-328-140
US-PATENT-3,663,885

N72-25258* c 09 ..... NASA-CASE-LAR-10253-1
US-PATENT-APPL-SN-99175
US-PATENT-CLASS-307-88.3
US-PATENT-CLASS-330-4.5
US-PATENT-3,663,886

N72-25259* c 09 ..... NASA-CASE-GSC-10695-1
US-PATENT-APPL-SN-889422
US-PATENT-CLASS-117-200
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-198
US-PATENT-3,664,874

N72-25260* c 09 ..... NASA-CASE-NPO-11283
US-PATENT-APPL-SN-118270
US-PATENT-CLASS-310-4
US-PATENT-3,663,839

N72-25261* c 09 ..... NASA-CASE-ERC-10224
US-PATENT-APPL-SN-868775
US-PATENT-CLASS-29-492
US-PATENT-CLASS-29-497
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-502
US-PATENT-CLASS-29-589
US-PATENT-CLASS-29-628
US-PATENT-3,665,589

N72-25262* c 09 ..... NASA-CASE-NPO-11078
US-PATENT-APPL-SN-82280
US-PATENT-CLASS-307-103
US-PATENT-CLASS-307-83
US-PATENT-CLASS-323-48
US-PATENT-CLASS-323-82
US-PATENT-3,663,828

N72-25284* c 11 ..... NASA-CASE-LAR-10507-1
US-PATENT-APPL-SN-874177
US-PATENT-CLASS-195-127
US-PATENT-3,649,462

N72-25287* c 11 ..... NASA-CASE-LAR-10546-1
US-PATENT-APPL-SN-32664
US-PATENT-CLASS-287-54A
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-655
US-PATENT-3,665,670

N72-25288* c 11 ..... NASA-CASE-MFS-20434
US-PATENT-APPL-SN-55534
US-PATENT-CLASS-73-140
US-PATENT-CLASS-73-161
US-PATENT-3,665,758

N72-25292* c 12 ..... NASA-CASE-NPO-11556
US-PATENT-APPL-SN-82648
US-PATENT-CLASS-210-188
US-PATENT-CLASS-310-11
US-PATENT-3,648,083

N72-25323* c 13 ..... NASA-CASE-NPO-11373
US-PATENT-APPL-SN-81095
US-PATENT-CLASS-73-421.5R
US-PATENT-CLASS-73-422GC
US-PATENT-CLASS-73-422TC
US-PATENT-3,662,604

N72-25409* c 14 ..... NASA-CASE-ERC-10174
US-PATENT-APPL-SN-39344
US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-226
US-PATENT-CLASS-250-83.3UV
US-PATENT-CLASS-350-203
US-PATENT-3,657,549

N72-25410* c 14 ..... NASA-CASE-ERC-10292
US-PATENT-APPL-SN-45519
US-PATENT-CLASS-350-160R
US-PATENT-CLASS-73-515
US-PATENT-CLASS-73-521
US-PATENT-3,657,928

N72-25411* c 14 ..... NASA-CASE-MSC-15626-1
US-PATENT-APPL-SN-94374
US-PATENT-CLASS-116-114AH
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-492
US-PATENT-3,656,352

N72-25412* c 14 ..... NASA-CASE-MFS-15063
US-PATENT-APPL-SN-51477
US-PATENT-CLASS-178-DIG.8
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-340-227R
US-PATENT-3,659,043

N72-25413* c 14 ..... NASA-CASE-GSC-10879-1
US-PATENT-APPL-SN-889420
US-PATENT-CLASS-195-127
US-PATENT-3,666,631

N72-25414* c 14 ..... NASA-CASE-NPO-11311
US-PATENT-APPL-SN-57252
US-PATENT-CLASS-178-7.92
US-PATENT-CLASS-350-175FS
US-PATENT-3,663,753

N72-25428* # c 14 ..... NASA-CASE-HQN-10756-1
US-PATENT-APPL-SN-236052

N72-25447* c 15 ..... NASA-CASE-LEW-10489-1
US-PATENT-APPL-SN-889682
US-PATENT-CLASS-117-107
US-PATENT-CLASS-117-211
US-PATENT-CLASS-117-217
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.16D
US-PATENT-CLASS-29-599
US-PATENT-3,649,356

N72-25448* c 15 ..... NASA-CASE-LEW-10450-1
US-PATENT-APPL-SN-880271
US-PATENT-CLASS-75-0.5BB
US-PATENT-CLASS-75-206
US-PATENT-CLASS-75-213
US-PATENT-3,649,242

N72-25450* c 15 ..... NASA-CASE-NPO-11202
US-PATENT-APPL-SN-66004
US-PATENT-CLASS-285-DIG.21
US-PATENT-CLASS-285-3
US-PATENT-CLASS-285-316
US-PATENT-CLASS-285-33
US-PATENT-CLASS-339-45M
US-PATENT-CLASS-339-91B
US-PATENT-3,656,781

N72-25451* c 15 ..... NASA-CASE-NPO-10606
US-PATENT-APPL-SN-8636
US-PATENT-CLASS-251-360
US-PATENT-3,658,295

N72-25452* c 15 ..... NASA-CASE-LEW-10965-1
US-PATENT-APPL-SN-876588
US-PATENT-CLASS-117-124C
US-PATENT-CLASS-117-152
US-PATENT-CLASS-117-16R
US-PATENT-CLASS-117-37
US-PATENT-CLASS-117-47R
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.3
US-PATENT-CLASS-204-157.18AG
US-PATENT-CLASS-204-49
US-PATENT-CLASS-250-65F
US-PATENT-CLASS-96-36.2
US-PATENT-3,658,569

N72-25453* c 15 ..... NASA-CASE-KSC-10513
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US-PATENT-CLASS-187-1
US-PATENT-CLASS-187-20
US-PATENT-CLASS-187-95
US-PATENT-CLASS-254-190
US-PATENT-3,666,051

N72-25454* c 15 ..... NASA-CASE-MSC-12233-1
US-PATENT-APPL-SN-73422
US-PATENT-CLASS-52-169
US-PATENT-CLASS-52-173
US-PATENT-CLASS-52-594
US-PATENT-3,665,669

N72-25455* c 15 ..... NASA-CASE-NPO-11095
US-PATENT-APPL-SN-19585
US-PATENT-CLASS-239-424
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-39.74A
US-PATENT-3,662,547

N72-25456* c 15 ..... NASA-CASE-NPO-11222

US-PATENT-APPL-SN-59893
US-PATENT-CLASS-310-68
US-PATENT-CLASS-310-80
US-PATENT-CLASS-310-83
US-PATENT-3,660,704
N72-25457* c 15 ..... NASA-CASE-ERC-10325
US-PATENT-APPL-SN-43884
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158T
US-PATENT-3,665,307
N72-25485* c 16 ..... NASA-CASE-ERC-10283
US-PATENT-APPL-SN-39185
US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-332-7.51
US-PATENT-3,659,225
N72-25539* c 18 ..... NASA-CASE-LEW-10424-2-2
US-PATENT-APPL-SN-15222
US-PATENT-CLASS-75-DIG.1
US-PATENT-CLASS-75-208
US-PATENT-CLASS-75-211
US-PATENT-CLASS-75-226
US-PATENT-3,653,882
N72-25540* c 18 ..... NASA-CASE-ERC-10364
US-PATENT-APPL-SN-55537
US-PATENT-CLASS-161-127
US-PATENT-CLASS-161-68
US-PATENT-CLASS-161-7
US-PATENT-CLASS-52-DIG.10
US-PATENT-CLASS-52-80
US-PATENT-3,663,347
N72-25541* c 18 ..... NASA-CASE-ERC-10363
US-PATENT-APPL-SN-57253
US-PATENT-CLASS-161-127
US-PATENT-CLASS-161-68
US-PATENT-CLASS-161-7
US-PATENT-CLASS-52-DIG.10
US-PATENT-CLASS-52-80
US-PATENT-3,663,346
N72-25595* c 21 ..... NASA-CASE-MSC-13397-1
US-PATENT-APPL-SN-59966
US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-244-23A
US-PATENT-3,662,973
N72-25619* c 23 ..... NASA-CASE-NPO-10634
US-PATENT-APPL-SN-112999
US-PATENT-CLASS-62-475
US-PATENT-CLASS-62-6
US-PATENT-CLASS-62-80
US-PATENT-CLASS-62-85
US-PATENT-3,656,313
N72-25679* c 26 ..... NASA-CASE-XER-07895
US-PATENT-APPL-SN-651627
US-PATENT-CLASS-317-234J
US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-331-107G
US-PATENT-3,667,010
N72-25680* c 26 ..... NASA-CASE-ERC-10275
US-PATENT-APPL-SN-47061
US-PATENT-CLASS-324-92
US-PATENT-CLASS-324-96
US-PATENT-CLASS-340-324R
US-PATENT-CLASS-350-150
US-PATENT-CLASS-350-160R
US-PATENT-3,667,039
N72-25699* c 27 ..... NASA-CASE-NPO-12000
US-PATENT-APPL-SN-74861
US-PATENT-CLASS-149-19
US-PATENT-CLASS-149-20
US-PATENT-CLASS-149-36
US-PATENT-CLASS-149-92
US-PATENT-3,658,608
N72-25842* c 31 ..... NASA-CASE-MSC-12372-1
US-PATENT-APPL-SN-64391
US-PATENT-CLASS-95-12.5
US-PATENT-3,662,661
N72-25877* c 32 ..... NASA-CASE-LAR-10270-1
US-PATENT-APPL-SN-60881
US-PATENT-CLASS-73-100
US-PATENT-CLASS-73-15.6
US-PATENT-3,665,751
N72-25911* c 33 ..... NASA-CASE-LEW-10359
US-PATENT-APPL-SN-47063
US-PATENT-CLASS-102-105
US-PATENT-CLASS-60-200A
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-CLASS-62-467
US-PATENT-3,656,317
N72-25913* c 33 ..... NASA-CASE-XMS-09690
US-PATENT-APPL-SN-853641
US-PATENT-CLASS-73-15R
US-PATENT-3,665,750
N72-26031* c 03 ..... NASA-CASE-NPO-10753
US-PATENT-APPL-SN-844355
US-PATENT-CLASS-136-202
US-PATENT-3,666,566
N72-26371* c 15 ..... NASA-CASE-NPO-10244
US-PATENT-APPL-SN-43327
US-PATENT-CLASS-308-2A
US-PATENT-CLASS-73-136R
US-PATENT-3,664,185
N72-27053* c 03 ..... NASA-CASE-GSC-10344-1
US-PATENT-APPL-SN-785078
US-PATENT-CLASS-136-89
US-PATENT-3,672,999
N72-27102* c 05 ..... NASA-CASE-LAR-10365-1
US-PATENT-APPL-SN-3151
US-PATENT-CLASS-210-103
US-PATENT-CLASS-210-104
US-PATENT-CLASS-210-110
US-PATENT-CLASS-210-137
US-PATENT-3,670,890
N72-27103* c 05 ..... NASA-CASE-MSC-13648
US-PATENT-APPL-SN-87222
US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-417
US-PATENT-3,669,110
N72-27144* c 06 ..... NASA-CASE-NPO-10768-2
US-PATENT-APPL-SN-770398
US-PATENT-APPL-SN-99524
US-PATENT-CLASS-260-535H
US-PATENT-CLASS-260-77.5AP
US-PATENT-3,671,497
N72-27151*# c 06 ..... NASA-CASE-NPO-10767-2
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N72-27226* c 09 ..... NASA-CASE-LEW-10330-1
US-PATENT-APPL-SN-110402
US-PATENT-CLASS-336-198
US-PATENT-CLASS-336-220
US-PATENT-CLASS-336-60
US-PATENT-3,648,209
N72-27227* c 09 ..... NASA-CASE-KSC-10644
US-PATENT-APPL-SN-114849
US-PATENT-CLASS-307-118
US-PATENT-CLASS-307-92
US-PATENT-CLASS-340-240
US-PATENT-3,673,424
N72-27228* c 09 ..... NASA-CASE-NPO-10542
US-PATENT-APPL-SN-767741
US-PATENT-CLASS-310-4
US-PATENT-3,673,440
N72-27246* c 10 ..... NASA-CASE-ERC-10015-2
US-PATENT-APPL-SN-763744
US-PATENT-APPL-SN-97343
US-PATENT-CLASS-313-309
US-PATENT-CLASS-313-336
US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-36
US-PATENT-3,671,798
N72-27262* c 11 ..... NASA-CASE-MFS-20620
US-PATENT-APPL-SN-154935
US-PATENT-CLASS-73-117.1
US-PATENT-CLASS-73-432SD
US-PATENT-3,670,564
N72-27408* c 14 ..... NASA-CASE-NPO-11147
US-PATENT-APPL-SN-63195
US-PATENT-CLASS-324-79R
US-PATENT-CLASS-328-189
US-PATENT-CLASS-331-44
US-PATENT-3,670,241
N72-27409* c 14 ..... NASA-CASE-NPO-11201
US-PATENT-APPL-SN-77220
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-225
US-PATENT-CLASS-350-147
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-3,670,168
N72-27410* c 14 ..... NASA-CASE-XLE-05230
US-PATENT-APPL-SN-877717
US-PATENT-CLASS-136-233
US-PATENT-3,671,329
N72-27411* c 14 ..... NASA-CASE-MSC-12293-1
US-PATENT-APPL-SN-59956
US-PATENT-CLASS-250-205
US-PATENT-CLASS-315-151
US-PATENT-CLASS-315-156
US-PATENT-CLASS-315-158
US-PATENT-CLASS-315-297
US-PATENT-CLASS-315-307
US-PATENT-CLASS-315-310
US-PATENT-CLASS-315-311
US-PATENT-3,670,202
N72-27412* c 14 ..... NASA-CASE-MFS-20523
US-PATENT-APPL-SN-77786
US-PATENT-CLASS-73-103
US-PATENT-CLASS-73-71.6
US-PATENT-3,670,563
N72-27484* c 15 ..... NASA-CASE-NPO-10721
US-PATENT-APPL-SN-59968
US-PATENT-CLASS-248-188.4
US-PATENT-3,669,393
N72-27485* c 15 ..... NASA-CASE-XLA-09843
US-PATENT-APPL-SN-60876
US-PATENT-CLASS-83-522
US-PATENT-CLASS-83-562
US-PATENT-CLASS-83-563
US-PATENT-CLASS-83-588
US-PATENT-CLASS-83-8
US-PATENT-3,668,956
N72-27728* c 23 ..... NASA-CASE-ARC-10160-1
US-PATENT-APPL-SN-867842
US-PATENT-CLASS-178-DIG.20
US-PATENT-CLASS-178-6.5
US-PATENT-CLASS-350-138
US-PATENT-3,670,097
N72-27784* c 26 ..... NASA-CASE-LAR-10836-1
US-PATENT-APPL-SN-138227
US-PATENT-CLASS-350-161
US-PATENT-3,671,105
N72-27959* c 33 ..... NASA-CASE-LAR-10800-1
US-PATENT-APPL-SN-154094
US-PATENT-CLASS-73-35
US-PATENT-3,670,559
N72-28025* c 03 ..... NASA-CASE-NPO-10633
US-PATENT-APPL-SN-885521
US-PATENT-CLASS-165-20
US-PATENT-CLASS-165-3
US-PATENT-CLASS-62-93
US-PATENT-3,675,712
N72-28225* c 09 ..... NASA-CASE-MFS-20757
US-PATENT-APPL-SN-136006
US-PATENT-CLASS-339-176MF
US-PATENT-CLASS-339-218M
US-PATENT-CLASS-339-75MP
US-PATENT-CLASS-339-94M
US-PATENT-3,670,290
N72-28240* c 10 ..... NASA-CASE-ARC-10265-1
US-PATENT-APPL-SN-64709
US-PATENT-CLASS-324-41
US-PATENT-CLASS-340-258
US-PATENT-3,676,772
N72-28241* c 10 ..... NASA-CASE-GSC-10786-1
US-PATENT-APPL-SN-773072
US-PATENT-CLASS-330-29
US-PATENT-3,533,006
N72-28436* c 14 ..... NASA-CASE-XLA-06683
US-PATENT-APPL-SN-10827
US-PATENT-CLASS-33-1SA
US-PATENT-CLASS-33-75R
US-PATENT-3,675,332
N72-28437* c 14 ..... NASA-CASE-ERC-10081
US-PATENT-APPL-SN-877990
US-PATENT-CLASS-325-363
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-CLASS-73-355
US-PATENT-3,665,467
N72-28438* c 14 ..... NASA-CASE-XLA-04980-2
US-PATENT-APPL-SN-577548
US-PATENT-APPL-SN-763040
US-PATENT-CLASS-148-187
US-PATENT-3,549,435
N72-28495* c 15 ..... NASA-CASE-MFS-14405
US-PATENT-APPL-SN-73283
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-74-469
US-PATENT-3,631,737
N72-28496* c 15 ..... NASA-CASE-MFS-20433
US-PATENT-APPL-SN-114847
US-PATENT-CLASS-52-1
US-PATENT-CLASS-52-573
US-PATENT-3,675,376
N72-28521* c 16 ..... NASA-CASE-NPO-11437
US-PATENT-APPL-SN-63144
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-3,676,787
N72-28535* c 17 ..... NASA-CASE-XLE-06461-2
US-PATENT-APPL-SN-156778
US-PATENT-APPL-SN-853855
US-PATENT-CLASS-266-24
US-PATENT-3,675,910
N72-28536* c 17 ..... NASA-CASE-XLE-03940-2
US-PATENT-APPL-SN-539255
US-PATENT-APPL-SN-793657
US-PATENT-CLASS-29-182.5
US-PATENT-3,676,084
N72-28761* c 26 ..... NASA-CASE-NPO-11775
US-PATENT-APPL-SN-162230
US-PATENT-CLASS-29-570
US-PATENT-CLASS-317-230
US-PATENT-CLASS-317-261
US-PATENT-3,676,754
N72-28762* c 26 ..... NASA-CASE-LAR-10294-1

US-PATENT-APPL-SN-796685
US-PATENT-CLASS-106-39
US-PATENT-CLASS-106-46
US-PATENT-CLASS-117-212
US-PATENT-CLASS-117-217
US-PATENT-CLASS-29-25.42
US-PATENT-3,649,353

N72-29172* c 09 ..... NASA-CASE-LAR-10511-1
US-PATENT-APPL-SN-41345
US-PATENT-CLASS-333-24R
US-PATENT-CLASS-333-98P
US-PATENT-CLASS-333-98R
US-PATENT-3,676,809

N72-29464* c 14 ..... NASA-CASE-ARC-10017-1
US-PATENT-APPL-SN-55536
US-PATENT-CLASS-250-41.9D
US-PATENT-CLASS-250-71.5R
US-PATENT-CLASS-313-356
US-PATENT-3,676,674

N72-29488* c 15 ..... NASA-CASE-XLE-10326-2
US-PATENT-APPL-SN-54540
US-PATENT-APPL-SN-723465
US-PATENT-CLASS-277-25
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-74
US-PATENT-3,675,935

N72-31140* c 06 ..... NASA-CASE-MSC-13335-1
US-PATENT-APPL-SN-55806
US-PATENT-CLASS-55-16
US-PATENT-CLASS-55-55
US-PATENT-3,678,654

N72-31141* c 06 ..... NASA-CASE-ARC-10308-1
US-PATENT-APPL-SN-134568
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-356-51
US-PATENT-3,679,899

N72-31226* c 08 ..... NASA-CASE-NPO-11016
US-PATENT-APPL-SN-889584
US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-151.1
US-PATENT-CLASS-235-92MT
US-PATENT-CLASS-323-19
US-PATENT-CLASS-340-347AD
US-PATENT-3,681,581

N72-31235* c 09 ..... NASA-CASE-ERC-10214
US-PATENT-APPL-SN-863914
US-PATENT-CLASS-343-770
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-3,680,142

N72-31273* c 10 ..... NASA-CASE-KSC-10647-1
US-PATENT-APPL-SN-774691
US-PATENT-CLASS-178-7.5E
US-PATENT-CLASS-315-22R
US-PATENT-CLASS-315-30R
US-PATENT-CLASS-330-27R
US-PATENT-3,678,191

N72-31446* c 14 ..... NASA-CASE-ERC-10087-2
US-PATENT-APPL-SN-738315
US-PATENT-APPL-SN-91642
US-PATENT-CLASS-29-588
US-PATENT-CLASS-317-234D
US-PATENT-CLASS-317-234G
US-PATENT-CLASS-317-235M
US-PATENT-CLASS-317-235R
US-PATENT-3,686,542

N72-31483* c 15 ..... NASA-CASE-LAR-10061-1
US-PATENT-APPL-SN-104047
US-PATENT-CLASS-251-331
US-PATENT-CLASS-251-86
US-PATENT-3,680,830

N72-31637* c 21 ..... NASA-CASE-GSC-10945-1
US-PATENT-APPL-SN-75431
US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-26
US-PATENT-3,678,685

N72-32169* c 07 ..... NASA-CASE-NPO-11361
US-PATENT-APPL-SN-112988
US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-915
US-PATENT-3,680,144

N72-32452* c 14 ..... NASA-CASE-MFS-15162
US-PATENT-APPL-SN-100639
US-PATENT-CLASS-350-79
US-PATENT-CLASS-356-241
US-PATENT-3,694,094

N72-32487* c 15 ..... NASA-CASE-LAR-10541-1
US-PATENT-APPL-SN-138229
US-PATENT-CLASS-118-49.1
US-PATENT-CLASS-204-298
US-PATENT-CLASS-219-121P
US-PATENT-CLASS-219-273
US-PATENT-3,690,291

N72-32688* c 25 ..... NASA-CASE-MFS-20589
US-PATENT-APPL-SN-103077
US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-111
US-PATENT-3,693,002

N72-33072* c 04 ..... NASA-CASE-ERC-10338
US-PATENT-APPL-SN-50339
US-PATENT-CLASS-23-109
US-PATENT-3,679,360

N72-33096* c 05 ..... NASA-CASE-MSC-13540-1
US-PATENT-APPL-SN-68023
US-PATENT-CLASS-99-80PS
US-PATENT-3,692,533

N72-33146* c 07 ..... NASA-CASE-MSC-12259-2
US-PATENT-APPL-SN-61895
US-PATENT-APPL-SN-853763
US-PATENT-CLASS-325-373
US-PATENT-3,694,753

N72-33172* c 08 ..... NASA-CASE-NPO-11630
US-PATENT-APPL-SN-143078
US-PATENT-CLASS-179-15.55R
US-PATENT-3,694,581

N72-33204* c 09 ..... NASA-CASE-NPO-11129
US-PATENT-APPL-SN-883523
US-PATENT-CLASS-307-262
US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-155
US-PATENT-CLASS-328-24
US-PATENT-3,621,406

N72-33205* c 09 ..... NASA-CASE-GSC-10835-1
US-PATENT-APPL-SN-116778
US-PATENT-CLASS-317-101A
US-PATENT-CLASS-317-235
US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-3,694,700

N72-33230* c 10 ..... NASA-CASE-GSC-11340-1
US-PATENT-APPL-SN-107379
US-PATENT-CLASS-330-12
US-PATENT-CLASS-331-115
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-333-80T
US-PATENT-3,693,105

N72-33377* c 14 ..... NASA-CASE-MFS-20760
US-PATENT-APPL-SN-99174
US-PATENT-CLASS-73-141AB
US-PATENT-CLASS-73-85
US-PATENT-3,693,418

N72-33476* c 15 ..... NASA-CASE-XGS-07805
US-PATENT-APPL-SN-104884
US-PATENT-CLASS-308-10
US-PATENT-3,694,041

N72-33477* c 15 ..... NASA-CASE-NPO-11340
US-PATENT-APPL-SN-147997
US-PATENT-CLASS-137-13
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-60-1
US-PATENT-CLASS-60-36
US-PATENT-3,693,346

N72-33681* c 24 ..... NASA-CASE-LEW-10518-1
US-PATENT-APPL-SN-863280
US-PATENT-CLASS-176-11
US-PATENT-3,694,313

N72-33696* c 25 ..... NASA-CASE-GSC-11291-1
US-PATENT-APPL-SN-102412
US-PATENT-CLASS-250-83.6R
US-PATENT-3,694,655

N73-12175* c 08 ..... NASA-CASE-NPO-11406
US-PATENT-APPL-SN-95183
US-PATENT-CLASS-235-152
US-PATENT-CLASS-331-78
US-PATENT-CLASS-340-146.1AL
US-PATENT-3,700,869

N73-12176* c 08 ..... NASA-CASE-KSC-10595
US-PATENT-APPL-SN-98772
US-PATENT-CLASS-235-155
US-PATENT-CLASS-340-347DD
US-PATENT-3,697,733

N73-12177* c 08 ..... NASA-CASE-NPO-11371
US-PATENT-APPL-SN-117575
US-PATENT-CLASS-340-146.1AQ
US-PATENT-CLASS-340-146.1AV
US-PATENT-3,697,950

N73-12211* c 09 ..... NASA-CASE-ERC-10412-1
US-PATENT-APPL-SN-72024
US-PATENT-CLASS-343-11R
US-PATENT-CLASS-343-11VB
US-PATENT-CLASS-343-5DP
US-PATENT-3,696,418

N73-12214*# c 09 ..... NASA-CASE-NPO-13091-1
US-PATENT-APPL-SN-290022

N73-12244* c 10 ..... NASA-CASE-NPO-11631
US-PATENT-APPL-SN-123253
US-PATENT-CLASS-179-1P
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-480
US-PATENT-3,700,812

N73-12264* c 11 ..... NASA-CASE-LAR-10348-1
US-PATENT-APPL-SN-70032
US-PATENT-CLASS-73-147
US-PATENT-3,695,101

N73-12265* c 11 ..... NASA-CASE-NPO-10890
US-PATENT-APPL-SN-99903
US-PATENT-CLASS-137-559
US-PATENT-CLASS-219-203
US-PATENT-CLASS-219-522
US-PATENT-CLASS-52-171
US-PATENT-3,696,833

N73-12444* c 14 ..... NASA-CASE-GSC-10903-1
US-PATENT-APPL-SN-114846
US-PATENT-CLASS-250-41.9G
US-PATENT-CLASS-250-41.9S
US-PATENT-CLASS-73-421.5
US-PATENT-3,700,893

N73-12445* c 14 ..... NASA-CASE-LAR-10728-1
US-PATENT-APPL-SN-112998
US-PATENT-CLASS-250-83.3H
US-PATENT-CLASS-250-83.3R
US-PATENT-CLASS-250-83R
US-PATENT-3,700,897

N73-12446* c 14 ..... NASA-CASE-NPO-11239
US-PATENT-APPL-SN-89211
US-PATENT-CLASS-356-106
US-PATENT-CLASS-356-114
US-PATENT-3,700,334

N73-12447* c 14 ..... NASA-CASE-NPO-11493
US-PATENT-APPL-SN-151413
US-PATENT-CLASS-136-224
US-PATENT-3,700,503

N73-12486* c 15 ..... NASA-CASE-KSC-10615
US-PATENT-APPL-SN-103078
US-PATENT-CLASS-244-1SB
US-PATENT-CLASS-244-135
US-PATENT-CLASS-62-45
US-PATENT-CLASS-62-7
US-PATENT-3,697,021

N73-12487* c 15 ..... NASA-CASE-FRC-10019
US-PATENT-APPL-SN-880398
US-PATENT-CLASS-204-192
US-PATENT-3,700,575

N73-12488* c 15 ..... NASA-CASE-ARC-10345-1
US-PATENT-APPL-SN-193671
US-PATENT-CLASS-287-85R
US-PATENT-CLASS-308-2A
US-PATENT-CLASS-74-5F
US-PATENT-3,700,291

N73-12489* c 15 ..... NASA-CASE-MSC-12357
US-PATENT-APPL-SN-662763
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-28
US-PATENT-CLASS-264-36
US-PATENT-CLASS-264-40
US-PATENT-3,697,630

N73-12492*# c 15 ..... NASA-CASE-XLA-08914
US-PATENT-APPL-SN-810576

N73-12495*# c 15 ..... NASA-CASE-NPO-13086-1
US-PATENT-APPL-SN-292477

N73-12547* c 17 ..... NASA-CASE-LAR-10539-1
US-PATENT-APPL-SN-136085
US-PATENT-CLASS-23-230R
US-PATENT-3,701,631

N73-12604* c 18 ..... NASA-CASE-MFS-20408
US-PATENT-APPL-SN-71048
US-PATENT-CLASS-161-93
US-PATENT-3,700,538

N73-12884* c 30 ..... NASA-CASE-MSC-12391
US-PATENT-APPL-SN-106465
US-PATENT-CLASS-244-155
US-PATENT-3,700,193

N73-13008* c 02 ..... NASA-CASE-GSC-11077-1
US-PATENT-APPL-SN-127618
US-PATENT-CLASS-244-32
US-PATENT-3,698,667

N73-13114* c 05 ..... NASA-CASE-MSC-13604-1
US-PATENT-APPL-SN-78717
US-PATENT-CLASS-128-2N
US-PATENT-CLASS-273-1E
US-PATENT-CLASS-35-22R
US-PATENT-3,698,385

N73-13128* c 06 ..... NASA-CASE-GSC-11214-1
US-PATENT-APPL-SN-115134
US-PATENT-CLASS-117-35R
US-PATENT-3,702,775

N73-13129* c 06 ..... NASA-CASE-XNP-08124-2
US-PATENT-APPL-SN-97829
US-PATENT-CLASS-75-66
US-PATENT-3,702,762

N73-13149* c 07 ..... NASA-CASE-NPO-11302-1
US-PATENT-APPL-SN-70967
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-235-150.53

US-PATENT-CLASS-235-181
US-PATENT-CLASS-325-325
US-PATENT-CLASS-340-146.1
US-PATENT-3,701,894

N73-13187* c 08 ..... NASA-CASE-GSC-10975-1
US-PATENT-APPL-SN-100996
US-PATENT-CLASS-340-172.5
US-PATENT-3,702,463

N73-13208* c 09 ..... NASA-CASE-LEW-11192-1
US-PATENT-APPL-SN-198285
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-5.38
US-PATENT-3,702,951

N73-13209* c 09 ..... NASA-CASE-XLA-05099
US-PATENT-APPL-SN-98798
US-PATENT-CLASS-235-152
US-PATENT-CLASS-307-207
US-PATENT-CLASS-307-215
US-PATENT-3,700,868

N73-13235* c 10 ..... NASA-CASE-KSC-10003
US-PATENT-APPL-SN-60883
US-PATENT-CLASS-178-DIG.6
US-PATENT-CLASS-178-6
US-PATENT-CLASS-307-242
US-PATENT-CLASS-307-259
US-PATENT-CLASS-328-104
US-PATENT-CLASS-328-154
US-PATENT-3,702,898

N73-13257* c 11 ..... NASA-CASE-LAR-10574-1
US-PATENT-APPL-SN-66206
US-PATENT-CLASS-244-1SS
US-PATENT-3,698,659

N73-13415* c 14 ..... NASA-CASE-LAR-10855-1
US-PATENT-APPL-SN-166541
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
US-PATENT-3,699,811

N73-13416* c 14 ..... NASA-CASE-GSC-11302-1
US-PATENT-APPL-SN-168650
US-PATENT-CLASS-73-71.6
US-PATENT-3,699,807

N73-13417* c 14 ..... NASA-CASE-XLE-05230-2
US-PATENT-APPL-SN-147099
US-PATENT-APPL-SN-877717
US-PATENT-CLASS-136-233
US-PATENT-CLASS-29-573
US-PATENT-CLASS-29-624
US-PATENT-3,699,645

N73-13418* c 14 ..... NASA-CASE-MFS-14216
US-PATENT-APPL-SN-50208
US-PATENT-CLASS-137-487.5
US-PATENT-CLASS-137-81
US-PATENT-CLASS-92-49
US-PATENT-3,698,412

N73-13420* c 14 ..... NASA-CASE-NPO-11418-1
US-PATENT-APPL-SN-193947
US-PATENT-CLASS-333-81B
US-PATENT-CLASS-333-98R
US-PATENT-3,702,979

N73-13435*# c 14 ..... NASA-CASE-GSC-11533-1
US-PATENT-APPL-SN-305013

N73-13462* c 15 ..... NASA-CASE-NPO-11479
US-PATENT-APPL-SN-170440
US-PATENT-CLASS-137-608
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-138-45
US-PATENT-CLASS-251-122
US-PATENT-3,700,005

N73-13463* c 15 ..... NASA-CASE-MFS-20317
US-PATENT-APPL-SN-67730
US-PATENT-CLASS-173-131
US-PATENT-CLASS-72-447
US-PATENT-CLASS-72-476
US-PATENT-3,699,799

N73-13464* c 15 ..... NASA-CASE-NPO-10812
US-PATENT-APPL-SN-129073
US-PATENT-CLASS-425-113
US-PATENT-CLASS-425-133
US-PATENT-CLASS-425-176
US-PATENT-CLASS-72-258
US-PATENT-3,698,848

N73-13465* c 15 ..... NASA-CASE-LEW-10805-1
US-PATENT-APPL-SN-29917
US-PATENT-CLASS-148-11.5R
US-PATENT-3,702,791

N73-13466* c 15 ..... NASA-CASE-MFS-20944
US-PATENT-APPL-SN-148756
US-PATENT-CLASS-91-363A
US-PATENT-CLASS-91-448
US-PATENT-3,702,575

N73-13467* c 15 ..... NASA-CASE-NPO-11369
US-PATENT-APPL-SN-129072
US-PATENT-CLASS-60-1
US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-37
US-PATENT-3,702,532

N73-13489* c 16 ..... NASA-CASE-HQN-10654-1
US-PATENT-APPL-SN-182978
US-PATENT-CLASS-324-.5R
US-PATENT-CLASS-331-94
US-PATENT-3,702,972

N73-13562* c 18 ..... NASA-CASE-ARC-10196-1
US-PATENT-APPL-SN-115082
US-PATENT-CLASS-260-2.5F
US-PATENT-3,702,841

N73-13643* c 21 ..... NASA-CASE-HQN-10703
US-PATENT-APPL-SN-156724
US-PATENT-CLASS-340-27NA
US-PATENT-CLASS-340-33
US-PATENT-CLASS-340-97
US-PATENT-CLASS-343-112CA
US-PATENT-3,699,511

N73-13644* c 21 ..... NASA-CASE-NPO-11481
US-PATENT-APPL-SN-134571
US-PATENT-CLASS-179-100.2A
US-PATENT-CLASS-340-174.1R
US-PATENT-CLASS-346-138
US-PATENT-CLASS-346-74MD
US-PATENT-CLASS-74-5.22
US-PATENT-3,697,968

N73-13660* c 23 ..... NASA-CASE-MFS-20809
US-PATENT-APPL-SN-173185
US-PATENT-CLASS-315-169R
US-PATENT-CLASS-315-169TV
US-PATENT-CLASS-317-101A
US-PATENT-3,700,961

N73-13661* c 23 ..... NASA-CASE-MSC-12404-1
US-PATENT-APPL-SN-142662
US-PATENT-CLASS-356-106S
US-PATENT-3,702,735

N73-13662* c 23 ..... NASA-CASE-MFS-20243
US-PATENT-APPL-SN-59894
US-PATENT-CLASS-250-51.5
US-PATENT-CLASS-250-52
US-PATENT-3,702,933

N73-13773* c 28 ..... NASA-CASE-LEW-10374-1
US-PATENT-APPL-SN-107380
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-60-211
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-243
US-PATENT-3,702,536

N73-13898* c 31 ..... NASA-CASE-LAR-10549-1
US-PATENT-APPL-SN-108824
US-PATENT-CLASS-244-139
US-PATENT-CLASS-60-291
US-PATENT-3,700,192

N73-13921* c 32 ..... NASA-CASE-MSC-12233-2
US-PATENT-APPL-SN-107298
US-PATENT-CLASS-229-DIG.11
US-PATENT-CLASS-52-284
US-PATENT-CLASS-52-594
US-PATENT-3,702,520

N73-14130* c 07 ..... NASA-CASE-NPO-11661
US-PATENT-APPL-SN-200682
US-PATENT-CLASS-343-782
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-915
US-PATENT-3,705,406

N73-14214* c 09 ..... NASA-CASE-ARC-10467-1
US-PATENT-APPL-SN-212028
US-PATENT-CLASS-250-205
US-PATENT-CLASS-250-211J
US-PATENT-CLASS-250-217SS
US-PATENT-CLASS-307-310
US-PATENT-CLASS-307-311
US-PATENT-3,705,316

N73-14427* c 14 ..... NASA-CASE-NPO-10758
US-PATENT-APPL-SN-81096
US-PATENT-CLASS-352-169
US-PATENT-CLASS-95-12.5
US-PATENT-CLASS-95-59
US-PATENT-3,704,659

N73-14428* c 14 ..... NASA-CASE-NPO-10764-1
US-PATENT-APPL-SN-836280
US-PATENT-CLASS-252-408
US-PATENT-3,700,603

N73-14429* c 14 ..... NASA-CASE-NPO-11387
US-PATENT-APPL-SN-142719
US-PATENT-CLASS-73-57
US-PATENT-CLASS-73-60
US-PATENT-3,706,221

N73-14468* c 15 ..... NASA-CASE-LAR-10103-1
US-PATENT-APPL-SN-103230
US-PATENT-CLASS-219-101
US-PATENT-CLASS-219-119
US-PATENT-CLASS-29-203V
US-PATENT-3,705,288

N73-14469* c 15 ..... NASA-CASE-GSC-10791-1
US-PATENT-APPL-SN-84289
US-PATENT-CLASS-174-52S
US-PATENT-CLASS-29-589
US-PATENT-CLASS-29-591
US-PATENT-CLASS-317-234A
US-PATENT-CLASS-317-234G
US-PATENT-3,705,255

N73-14584* c 18 ..... NASA-CASE-LAR-10894-1
US-PATENT-APPL-SN-189375
US-PATENT-CLASS-106-39R
US-PATENT-CLASS-106-55
US-PATENT-CLASS-106-58
US-PATENT-CLASS-106-63
US-PATENT-CLASS-264-DIG.36
US-PATENT-CLASS-264-65
US-PATENT-3,706,583

N73-14692* c 21 ..... NASA-CASE-ERC-10392
US-PATENT-APPL-SN-36534
US-PATENT-CLASS-340-27AT
US-PATENT-3,706,970

N73-14853* c 31 ..... NASA-CASE-GSC-10590-1
US-PATENT-APPL-SN-130353
US-PATENT-CLASS-102-49.5
US-PATENT-3,706,281

N73-14854* c 31 ..... NASA-CASE-MSC-12433
US-PATENT-APPL-SN-103551
US-PATENT-CLASS-244-155
US-PATENT-3,702,688

N73-14855* c 31 ..... NASA-CASE-NPO-10680
US-PATENT-APPL-SN-104048
US-PATENT-CLASS-74-2
US-PATENT-3,706,230

N73-15235* c 09 ..... NASA-CASE-NPO-12106
US-PATENT-APPL-SN-175881
US-PATENT-CLASS-317-234V
US-PATENT-CLASS-317-235AG
US-PATENT-CLASS-317-235K
US-PATENT-CLASS-331-107G
US-PATENT-CLASS-331-177R
US-PATENT-CLASS-331-90
US-PATENT-3,694,771

N73-16106* c 06 ..... NASA-CASE-LAR-10668-1
US-PATENT-APPL-SN-172459
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254E
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-250-71R
US-PATENT-CLASS-250-83.3UV
US-PATENT-3,709,663

N73-16121* c 07 ..... NASA-CASE-NPO-11572
US-PATENT-APPL-SN-125234
US-PATENT-CLASS-179-15AN
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-325-60
US-PATENT-CLASS-343-200
US-PATENT-3,710,257

N73-16205* c 10 ..... NASA-CASE-NPO-11282
US-PATENT-APPL-SN-101354
US-PATENT-CLASS-325-346
US-PATENT-CLASS-325-419
US-PATENT-3,710,261

N73-16206* c 10 ..... NASA-CASE-ERC-10285
US-PATENT-APPL-SN-55333
US-PATENT-CLASS-331-45
US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-853
US-PATENT-3,710,329

N73-16483* c 14 ..... NASA-CASE-ERC-10226-1
US-PATENT-APPL-SN-124909
US-PATENT-APPL-SN-808822
US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-215
US-PATENT-CLASS-250-217
US-PATENT-CLASS-315-153
US-PATENT-CLASS-340-25
US-PATENT-CLASS-340-27R
US-PATENT-3,708,671

N73-16484* c 14 ..... NASA-CASE-LAR-10739-1
US-PATENT-APPL-SN-134567
US-PATENT-CLASS-250-217F
US-PATENT-CLASS-340-228S
US-PATENT-CLASS-340-418
US-PATENT-3,708,674

N73-16536* c 16 ..... NASA-CASE-LAR-10311-1
US-PATENT-APPL-SN-31702
US-PATENT-CLASS-250-199
US-PATENT-CLASS-340-171
US-PATENT-CLASS-350-293
US-PATENT-3,710,122

N73-16764* c 27 ..... NASA-CASE-NPO-12015
US-PATENT-APPL-SN-74862
US-PATENT-CLASS-149-19
US-PATENT-CLASS-149-36
US-PATENT-3,708,359

N73-16918* c 33 ..... NASA-CASE-MSC-15567-1

US-PATENT-APPL-SN-87551
US-PATENT-CLASS-204-324
US-PATENT-CLASS-204-325
US-PATENT-CLASS-204-328
US-PATENT-3,708,419

N73-19004* c 02 ..... NASA-CASE-ERC-10439
US-PATENT-APPL-SN-54271
US-PATENT-CLASS-244-17.13
US-PATENT-CLASS-244-77D
US-PATENT-CLASS-318-489
US-PATENT-3,711,042

N73-19234* c 09 ..... NASA-CASE-GSC-11013-1
US-PATENT-APPL-SN-200717
US-PATENT-CLASS-343-754
US-PATENT-CLASS-343-839
US-PATENT-CLASS-343-854
US-PATENT-CLASS-343-895
US-PATENT-3,713,163

N73-19235* c 09 ..... NASA-CASE-MFS-20407
US-PATENT-APPL-SN-116777
US-PATENT-CLASS-317-235AM
US-PATENT-CLASS-317-235N
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-317-235T
US-PATENT-CLASS-317-235UA
US-PATENT-3,714,526

N73-19419* c 14 ..... NASA-CASE-LAR-10226-1
US-PATENT-APPL-SN-98774
US-PATENT-CLASS-250-217R
US-PATENT-CLASS-95-11.5R
US-PATENT-CLASS-95-11R
US-PATENT-3,712,195

N73-19420* c 14 ..... NASA-CASE-MFS-20774
US-PATENT-APPL-SN-161028
US-PATENT-CLASS-73-84
US-PATENT-3,712,121

N73-19421* c 14 ..... NASA-CASE-MFS-20242
US-PATENT-APPL-SN-213004
US-PATENT-CLASS-73-71.6
US-PATENT-3,712,120

N73-19457* c 15 ..... NASA-CASE-MFS-20698-2
US-PATENT-APPL-SN-136086
US-PATENT-APPL-SN-3418
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-625
US-PATENT-3,714,332

N73-19458* c 15 ..... NASA-CASE-LAR-10195-1
US-PATENT-APPL-SN-201782
US-PATENT-CLASS-259-4
US-PATENT-3,712,591

N73-19630*# c 21 ..... NASA-CASE-GSC-11188-2
US-PATENT-APPL-SN-244440

N73-19793* c 28 ..... NASA-CASE-LEW-11187-1
US-PATENT-APPL-SN-147922
US-PATENT-CLASS-60-39.28R
US-PATENT-3,713,290

N73-20039* c 03 ..... NASA-CASE-GSC-10814-1
US-PATENT-APPL-SN-41404
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US-PATENT-CLASS-244-1SS
US-PATENT-3,715,092

N73-20040* c 03 ..... NASA-CASE-NPO-11771
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US-PATENT-CLASS-244-1.55
US-PATENT-CLASS-250-212
US-PATENT-CLASS-250-234
US-PATENT-CLASS-60-26
US-PATENT-3,715,600

N73-20137* c 05 ..... NASA-CASE-LAR-10076-1
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US-PATENT-CLASS-165-46
US-PATENT-CLASS-312-1
US-PATENT-CLASS-62-259
US-PATENT-3,713,480

N73-20174* c 07 ..... NASA-CASE-GSC-10087-4
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US-PATENT-APPL-SN-701679
US-PATENT-CLASS-325-12
US-PATENT-CLASS-325-17
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-5
US-PATENT-CLASS-325-63
US-PATENT-CLASS-325-7
US-PATENT-CLASS-325-8
US-PATENT-CLASS-325-9
US-PATENT-CLASS-343-179
US-PATENT-3,715,663

N73-20175* c 07 ..... NASA-CASE-KSC-10698
US-PATENT-APPL-SN-213949
US-PATENT-CLASS-324-72
US-PATENT-CLASS-73-170R
US-PATENT-3,715,660

N73-20176* c 07 ..... NASA-CASE-KSC-10521
US-PATENT-APPL-SN-212921
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US-PATENT-CLASS-340-147R
US-PATENT-CLASS-340-163
US-PATENT-3,715,723

N73-20217* c 08 ..... NASA-CASE-LAR-10128-1
US-PATENT-APPL-SN-84002
US-PATENT-CLASS-235-92FQ
US-PATENT-CLASS-235-92R
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-340-347AD
US-PATENT-3,714,645

N73-20231* c 09 ..... NASA-CASE-ARC-10264-1
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US-PATENT-CLASS-328-167
US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-86
US-PATENT-3,714,588

N73-20232* c 09 ..... NASA-CASE-MFS-21433
US-PATENT-APPL-SN-236281
US-PATENT-CLASS-307-230
US-PATENT-CLASS-307-304
US-PATENT-CLASS-330-20
US-PATENT-CLASS-330-22
US-PATENT-CLASS-330-30D
US-PATENT-CLASS-330-35
US-PATENT-CLASS-330-40
US-PATENT-CLASS-330-80T
US-PATENT-3,715,693

N73-20253* c 10 ..... NASA-CASE-LAR-10310-1
US-PATENT-APPL-SN-147103
US-PATENT-CLASS-235-197
US-PATENT-3,714,405

N73-20254* c 10 ..... NASA-CASE-NPO-11868
US-PATENT-APPL-SN-192101
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US-PATENT-CLASS-328-187
US-PATENT-CLASS-328-37
US-PATENT-CLASS-328-61
US-PATENT-3,718,863

N73-20267* c 11 ..... NASA-CASE-MFS-21362
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US-PATENT-CLASS-73-432SD
US-PATENT-3,714,833

N73-20474* c 14 ..... NASA-CASE-ERC-10350
US-PATENT-APPL-SN-55535
US-PATENT-CLASS-340-27R
US-PATENT-3,714,624

N73-20475* c 14 ..... NASA-CASE-LAR-10726-1
US-PATENT-APPL-SN-146935
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US-PATENT-CLASS-250-83.3H
US-PATENT-3,714,432

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US-PATENT-APPL-SN-94049
US-PATENT-CLASS-73-90
US-PATENT-CLASS-73-91
US-PATENT-3,714,821

N73-20477* c 14 ..... NASA-CASE-ARC-10443-1
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US-PATENT-CLASS-250-83R
US-PATENT-3,715,590

N73-20478* c 14 ..... NASA-CASE-NPO-10985
US-PATENT-APPL-SN-74759
US-PATENT-CLASS-324-30R
US-PATENT-CLASS-324-65P
US-PATENT-CLASS-73-194E
US-PATENT-3,712,132

N73-20514* c 15 ..... NASA-CASE-NPO-11213
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US-PATENT-CLASS-195-127
US-PATENT-3,713,987

N73-20740* c 32 ..... NASA-CASE-LAR-10765-1
US-PATENT-APPL-SN-138230
US-PATENT-CLASS-356-32
US-PATENT-CLASS-73-88A
US-PATENT-3,715,915

N73-20741* c 23 ..... NASA-CASE-ARC-10194-1
US-PATENT-APPL-SN-107659
US-PATENT-CLASS-350-202
US-PATENT-3,715,152

N73-22076*# c 07 ..... NASA-CASE-NPO-10166-1
US-PATENT-APPL-SN-192803

N73-22710* c 27 ..... NASA-CASE-NPO-10893
US-PATENT-APPL-SN-845584
US-PATENT-CLASS-260-94.8
US-PATENT-3,634,383

N73-24176* c 07 ..... NASA-CASE-NPO-11751
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US-PATENT-CLASS-343-915
US-PATENT-3,729,743

N73-24472* c 14 ..... NASA-CASE-LEW-11072-1
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US-PATENT-CLASS-136-225
US-PATENT-3,729,343

N73-24473* c 14 ..... NASA-CASE-MFS-20418
US-PATENT-APPL-SN-162101
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US-PATENT-CLASS-324-78E
US-PATENT-3,729,676

N73-24513* c 15 ..... NASA-CASE-NPO-11417
US-PATENT-APPL-SN-120241
US-PATENT-CLASS-417-391
US-PATENT-CLASS-60-25
US-PATENT-3,732,040

N73-24569* c 17 ..... NASA-CASE-LEW-10920-1
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US-PATENT-CLASS-204-192
US-PATENT-3,732,158

N73-24783* c 28 ..... NASA-CASE-NPO-11880
US-PATENT-APPL-SN-209535
US-PATENT-CLASS-313-DIG.8
US-PATENT-CLASS-313-231
US-PATENT-CLASS-313-63
US-PATENT-CLASS-60-202
US-PATENT-3,313,204
US-PATENT-3,728,861

N73-24784* c 28 ..... NASA-CASE-NPO-11559
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US-PATENT-CLASS-102-49.8
US-PATENT-CLASS-60-254
US-PATENT-CLASS-60-256
US-PATENT-3,729,935

N73-25125* c 05 ..... NASA-CASE-MFS-20332-2
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US-PATENT-APPL-SN-869260
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US-PATENT-CLASS-137-538
US-PATENT-CLASS-2-2.1A
US-PATENT-3,720,208

N73-25160* c 07 ..... NASA-CASE-ARC-10097-2
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US-PATENT-APPL-SN-768662
US-PATENT-CLASS-325-113
US-PATENT-CLASS-325-139
US-PATENT-CLASS-325-45
US-PATENT-CLASS-325-61
US-PATENT-CLASS-340-207
US-PATENT-CLASS-340-258R
US-PATENT-3,719,891

N73-25161* c 07 ..... NASA-CASE-NPO-11707
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US-PATENT-CLASS-343-6.8R
US-PATENT-3,729,736

N73-25206* c 08 ..... NASA-CASE-NPO-11497
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US-PATENT-CLASS-235-10.2
US-PATENT-CLASS-235-151.27
US-PATENT-CLASS-235-92CV
US-PATENT-CLASS-235-92DN
US-PATENT-CLASS-235-92EA
US-PATENT-CLASS-235-92EV
US-PATENT-CLASS-235-92R
US-PATENT-3,729,129

N73-25240* c 10 ..... NASA-CASE-MSC-12428-1
US-PATENT-APPL-SN-170681
US-PATENT-CLASS-179-1SA
US-PATENT-CLASS-235-151.31
US-PATENT-CLASS-324-77R
US-PATENT-CLASS-324-78J
US-PATENT-3,732,405

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US-PATENT-APPL-SN-180683
US-PATENT-CLASS-325-363
US-PATENT-CLASS-325-67
US-PATENT-3,737,781

N73-25243* c 10 ..... NASA-CASE-MFS-21919-1
US-PATENT-APPL-SN-193456
US-PATENT-CLASS-317-100
US-PATENT-CLASS-317-101DH
US-PATENT-3,735,206

N73-25262* c 12 ..... NASA-CASE-LAR-10578-1
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US-PATENT-CLASS-73-147
US-PATENT-3,731,528

N73-25460* c 14 ..... NASA-CASE-MFS-20916
US-PATENT-APPL-SN-212165
US-PATENT-CLASS-73-189
US-PATENT-3,731,531

N73-25461* c 14 ..... NASA-CASE-KSC-10108
US-PATENT-APPL-SN-73922
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US-PATENT-CLASS-343-17.5
US-PATENT-CLASS-343-6.8R
US-PATENT-3,732,567

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US-PATENT-CLASS-250-214
US-PATENT-CLASS-250-214
US-PATENT-CLASS-250-83.3H

US-PATENT-CLASS-356-152
US-PATENT-3,723,745
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US-PATENT-CLASS-356-110
US-PATENT-3,729,260
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US-PATENT-CLASS-182-5
US-PATENT-CLASS-188-65.1
US-PATENT-CLASS-24-134R
US-PATENT-CLASS-254-156
US-PATENT-3,729,068
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US-PATENT-CLASS-188-266
US-PATENT-CLASS-244-1SA
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US-PATENT-CLASS-313-231
US-PATENT-CLASS-60-202
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US-PATENT-APPL-SN-47069
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US-PATENT-CLASS-244-117A
US-PATENT-CLASS-60-200A
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-CLASS-62-467
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US-PATENT-CLASS-244-76C
US-PATENT-CLASS-244-77F
US-PATENT-CLASS-244-77G
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US-PATENT-CLASS-244-46
US-PATENT-CLASS-244-55
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US-PATENT-CLASS-9-2A
US-PATENT-CLASS-9-3
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N73-26071* c 05 ..... NASA-CASE-ARC-10599-1
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US-PATENT-CLASS-62-176
US-PATENT-CLASS-62-207
US-PATENT-CLASS-62-209
US-PATENT-CLASS-62-259
US-PATENT-CLASS-62-89
US-PATENT-3,736,764
N73-26072* c 05 ..... NASA-CASE-ARC-10329-1
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US-PATENT-CLASS-351-23
US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
US-PATENT-3,737,217
N73-26100* c 06 ..... NASA-CASE-GSC-11358-1
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US-PATENT-CLASS-260-46.5R
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N73-26117* c 07 ..... NASA-CASE-KSC-10392
US-PATENT-APPL-SN-181024
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US-PATENT-CLASS-343-883
US-PATENT-CLASS-343-889
US-PATENT-CLASS-343-895
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US-PATENT-CLASS-179-15BM
US-PATENT-CLASS-325-40
US-PATENT-CLASS-343-204
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US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-332-7.51
US-PATENT-CLASS-356-4
US-PATENT-CLASS-356-5
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US-PATENT-CLASS-235-164
US-PATENT-CLASS-328-167
US-PATENT-3,732,409
N73-26176* c 08 ..... NASA-CASE-NPO-11456
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N73-26195* c 09 ..... NASA-CASE-GSC-10990-1
US-PATENT-APPL-SN-93329
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US-PATENT-CLASS-333-73S
US-PATENT-CLASS-333-82A
US-PATENT-CLASS-333-84M
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US-PATENT-CLASS-321-11
US-PATENT-CLASS-321-45C
US-PATENT-3,737,757
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US-PATENT-CLASS-307-233
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US-PATENT-CLASS-235-194
US-PATENT-CLASS-235-197
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US-PATENT-APPL-SN-144139
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US-PATENT-CLASS-180-6.5
US-PATENT-CLASS-180-7R
US-PATENT-CLASS-180-8A
US-PATENT-CLASS-180-9.2R
US-PATENT-CLASS-180-9.5
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US-PATENT-CLASS-305-39
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US-PATENT-CLASS-219-50
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US-PATENT-CLASS-343-100ME
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US-PATENT-CLASS-137-582
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US-PATENT-CLASS-356-108
US-PATENT-CLASS-356-161
US-PATENT-CLASS-356-202
US-PATENT-3,737,237
N73-26752* c 26 ..... NASA-CASE-LEW-11726-1
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US-PATENT-CLASS-156-18
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US-PATENT-CLASS-29-599
US-PATENT-CLASS-336-DIG.1
US-PATENT-CLASS-336-200
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US-PATENT-APPL-SN-159966
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US-PATENT-CLASS-244-137P
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N73-26910* c 32 ..... NASA-CASE-LAR-10756-1
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US-PATENT-CLASS-235-92MT
US-PATENT-CLASS-73-67.3
US-PATENT-CLASS-73-88.5R
US-PATENT-CLASS-73-91
US-PATENT-3,733,424
N73-26958* c 33 ..... NASA-CASE-NPO-11330
US-PATENT-APPL-SN-118269
US-PATENT-CLASS-285-DIG.21
US-PATENT-CLASS-285-316
US-PATENT-3,737,181
N73-27052* c 04 ..... NASA-CASE-GSC-11092-2
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US-PATENT-APPL-SN-60950
US-PATENT-CLASS-103.5R
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N73-27062* c 05 ..... NASA-CASE-LEW-11669-1
US-PATENT-APPL-SN-198885
US-PATENT-CLASS-128-2
US-PATENT-CLASS-128-24A
US-PATENT-CLASS-128-305
US-PATENT-CLASS-32-28
US-PATENT-CLASS-32-58
US-PATENT-3,736,938
N73-27086* c 06 ..... NASA-CASE-GSC-10225-1
US-PATENT-APPL-SN-710621
US-PATENT-CLASS-195-66R
US-PATENT-3,745,089
N73-27150*# c 09 ..... NASA-CASE-ERC-10224-2
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US-PATENT-APPL-SN-868775
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US-PATENT-CLASS-317-234L
US-PATENT-CLASS-317-234M
US-PATENT-CLASS-317-234N
US-PATENT-CLASS-317-234R
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US-PATENT-CLASS-331-17
US-PATENT-CLASS-331-25
US-PATENT-3,740,671
N73-27376*# c 14 ..... NASA-CASE-HQN-10037-1
US-PATENT-APPL-SN-235957
US-PATENT-CLASS-73-28
US-PATENT-3,741,001
N73-27377* c 14 ..... NASA-CASE-MFS-21046-1
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US-PATENT-CLASS-35-12C
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US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-244-135
US-PATENT-3,744,738
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US-PATENT-CLASS-340-5C
US-PATENT-CLASS-73-1DV
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US-PATENT-CLASS-53-112A
US-PATENT-CLASS-53-22A
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US-PATENT-CLASS-137-604
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US-PATENT-APPL-SN-758540
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US-PATENT-CLASS-313-218
US-PATENT-CLASS-313-230
US-PATENT-CLASS-313-355
US-PATENT-CLASS-313-63
US-PATENT-CLASS-60-202
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US-PATENT-CLASS-128-2.06R
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US-PATENT-CLASS-73-379
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US-PATENT-CLASS-117-161UN
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US-PATENT-CLASS-161-214
US-PATENT-CLASS-161-227
US-PATENT-CLASS-260-30.2
US-PATENT-CLASS-260-30.8DS
US-PATENT-CLASS-260-32.6N
US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-260-33.6R
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-65
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US-PATENT-CLASS-260-78UA
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US-PATENT-CLASS-75-226
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US-PATENT-CLASS-75-214
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US-PATENT-CLASS-340-174YC
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US-PATENT-CLASS-331-94.5S
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US-PATENT-CLASS-346-138
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N74-19310* c 72 ..... NASA-CASE-HQN-10740-1
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US-PATENT-CLASS-356-106R
US-PATENT-CLASS-356-112
US-PATENT-CLASS-356-28
US-PATENT-3,795,448
N74-19528* c 09 ..... NASA-CASE-LAR-10426-1
US-PATENT-APPL-SN-239575

US-PATENT-CLASS-73-15.6
US-PATENT-CLASS-73-91
US-PATENT-3,795,134

N74-19692* c 44 ..... NASA-CASE-GSC-11367-1
US-PATENT-APPL-SN-236985
US-PATENT-CLASS-136-36
US-PATENT-3,759,747

N74-19693* c 44 ..... NASA-CASE-NPO-11806-1
US-PATENT-APPL-SN-228163
US-PATENT-CLASS-136-20
US-PATENT-CLASS-136-30
US-PATENT-3,790,409

N74-19769* c 24 ..... NASA-CASE-ERC-10073-1
US-PATENT-APPL-SN-856253
US-PATENT-CLASS-117-95
US-PATENT-3,796,592

N74-19788* c 32 ..... NASA-CASE-NPO-11820-1
US-PATENT-APPL-SN-266912
US-PATENT-CLASS-307-237
US-PATENT-CLASS-328-160
US-PATENT-CLASS-328-168
US-PATENT-CLASS-328-172
US-PATENT-CLASS-333-14
US-PATENT-3,800,237

N74-19790* c 32 ..... NASA-CASE-MFS-21540-1
US-PATENT-APPL-SN-333912
US-PATENT-CLASS-178-7.1
US-PATENT-CLASS-325-148
US-PATENT-3,800,224

N74-19870* c 44 ..... NASA-CASE-MFS-21470-1
US-PATENT-APPL-SN-340871
US-PATENT-CLASS-325-62
US-PATENT-CLASS-333-17
US-PATENT-CLASS-343-17.7
US-PATENT-CLASS-343-7.5
US-PATENT-3,795,910

N74-20008* c 74 ..... NASA-CASE-GSC-11188-3
US-PATENT-APPL-SN-244566
US-PATENT-APPL-SN-80029
US-PATENT-CLASS-117-45
US-PATENT-3,799,793

N74-20009* c 36 ..... NASA-CASE-NPO-11861-1
US-PATENT-APPL-SN-266911
US-PATENT-CLASS-178-DIG.1
US-PATENT-CLASS-178-6
US-PATENT-CLASS-178-7.6
US-PATENT-3,800,074

N74-20063* c 37 ..... NASA-CASE-LAR-10129-2
US-PATENT-APPL-SN-319410
US-PATENT-APPL-SN-99201
US-PATENT-CLASS-312-1
US-PATENT-3,796,473

N74-20329* c 76 ..... NASA-CASE-GSC-11425-1
US-PATENT-APPL-SN-206266
US-PATENT-CLASS-148-1.5
US-PATENT-3,799,813

N74-20646* c 02 ..... NASA-CASE-LEW-11188-1
US-PATENT-APPL-SN-152328
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-137-15.2
US-PATENT-CLASS-244-53B
US-PATENT-3,799,475

N74-20725* c 54 ..... NASA-CASE-MFS-22102-1
US-PATENT-APPL-SN-341621
US-PATENT-CLASS-4-10
US-PATENT-CLASS-4-120
US-PATENT-3,805,303

N74-20726* c 52 ..... NASA-CASE-ARC-10597-1
US-PATENT-APPL-SN-281876
US-PATENT-CLASS-128-2V
US-PATENT-CLASS-73-67.9
US-PATENT-3,802,253

N74-20728* c 52 ..... NASA-CASE-MFS-21415-1
US-PATENT-APPL-SN-318152
US-PATENT-CLASS-128-2.07
US-PATENT-CLASS-128-2.08
US-PATENT-CLASS-73-23
US-PATENT-CLASS-73-421.5R
US-PATENT-3,799,149

N74-20809* c 32 ..... NASA-CASE-MSC-12462-1
US-PATENT-APPL-SN-274360
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-320
US-PATENT-CLASS-325-423
US-PATENT-3,800,227

N74-20810* c 32 ..... NASA-CASE-MSC-12494-1
US-PATENT-APPL-SN-304705
US-PATENT-CLASS-325-321
US-PATENT-CLASS-325-419
US-PATENT-3,806,816

N74-20811* c 32 ..... NASA-CASE-NPO-13103-1
US-PATENT-APPL-SN-338484
US-PATENT-CLASS-325-320
US-PATENT-CLASS-325-419
US-PATENT-CLASS-329-122
US-PATENT-3,806,815

N74-20813* c 32 ..... NASA-CASE-FRC-10071-1
US-PATENT-APPL-SN-307727
US-PATENT-CLASS-178-7.7
US-PATENT-CLASS-315-18
US-PATENT-CLASS-315-22
US-PATENT-3,803,445

N74-20836* c 60 ..... NASA-CASE-ERC-10180-1
US-PATENT-APPL-SN-838278
US-PATENT-CLASS-235-164
US-PATENT-3,803,393

N74-20859* c 33 ..... NASA-CASE-XLE-2529-3
US-PATENT-APPL-SN-288856
US-PATENT-APPL-SN-487929
US-PATENT-APPL-SN-848403
US-PATENT-CLASS-315-211
US-PATENT-CLASS-315-228
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-332-7.51
US-PATENT-3,806,835

N74-20860* c 33 ..... NASA-CASE-GSC-11446-1
US-PATENT-APPL-SN-263230
US-PATENT-CLASS-343-DIG.2
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-854
US-PATENT-3,806,932

N74-20861* c 33 ..... NASA-CASE-GSC-11560-1
US-PATENT-APPL-SN-361906
US-PATENT-CLASS-350-269
US-PATENT-CLASS-354-234
US-PATENT-CLASS-95-53EA
US-PATENT-3,804,506

N74-20862* c 33 ..... NASA-CASE-GSC-11513-1
US-PATENT-APPL-SN-315069
US-PATENT-CLASS-331-108A
US-PATENT-CLASS-331-115
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-331-159
US-PATENT-3,806,831

N74-20863* c 32 ..... NASA-CASE-GSC-11909
US-PATENT-APPL-SN-244158
US-PATENT-CLASS-343-730
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-3,803,617

N74-20864* c 32 ..... NASA-CASE-GSC-11428-1
US-PATENT-APPL-SN-292685
US-PATENT-CLASS-343-708
US-PATENT-CLASS-343-769
US-PATENT-CLASS-343-853
US-PATENT-3,805,266

N74-21014* c 71 ..... NASA-CASE-HQN-10832-1
US-PATENT-APPL-SN-301417
US-PATENT-CLASS-178-DIG.32
US-PATENT-CLASS-178-5.8R
US-PATENT-CLASS-178-7.2
US-PATENT-CLASS-340-407
US-PATENT-CLASS-35-35A
US-PATENT-3,800,082

N74-21015* c 19 ..... NASA-CASE-LAR-10626-1
US-PATENT-APPL-SN-202750
US-PATENT-CLASS-33-1SA
US-PATENT-CLASS-33-46R
US-PATENT-3,798,778

N74-21017* c 35 ..... NASA-CASE-MFS-21660-1
US-PATENT-APPL-SN-310616
US-PATENT-CLASS-324-83Q
US-PATENT-3,806,802

N74-21018* c 35 ..... NASA-CASE-LEW-10981-1
US-PATENT-APPL-SN-214089
US-PATENT-CLASS-310-11
US-PATENT-CLASS-324-34FL
US-PATENT-CLASS-73-194EM
US-PATENT-3,802,262

N74-21019* c 35 ..... NASA-CASE-GSC-11600-1
US-PATENT-APPL-SN-318357
US-PATENT-CLASS-73-1F
US-PATENT-3,802,249

N74-21055* c 37 ..... NASA-CASE-LEW-11388-2
US-PATENT-APPL-SN-289033
US-PATENT-APPL-SN-293726
US-PATENT-CLASS-29-487
US-PATENT-CLASS-29-494
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-504
US-PATENT-3,798,748

N74-21056* c 37 ..... NASA-CASE-LAR-10688-1
US-PATENT-APPL-SN-285705
US-PATENT-CLASS-235-151
US-PATENT-CLASS-235-92PE
US-PATENT-CLASS-235-92SB
US-PATENT-3,800,253

N74-21057* c 37 ..... NASA-CASE-LAR-10941-1
US-PATENT-APPL-SN-289048
US-PATENT-CLASS-29-470.1
US-PATENT-3,797,098

N74-21058* c 37 ..... NASA-CASE-MFS-22411-1
US-PATENT-APPL-SN-382262
US-PATENT-CLASS-260-448.2N
US-PATENT-3,801,617

N74-21059* c 31 ..... NASA-CASE-LAR-10409-1
US-PATENT-APPL-SN-340864
US-PATENT-CLASS-29-423
US-PATENT-3,798,741

N74-21060* c 37 ..... NASA-CASE-NPO-13105-1
US-PATENT-APPL-SN-283502
US-PATENT-CLASS-60-25
US-PATENT-3,798,896

N74-21061* c 37 ..... NASA-CASE-LEW-11076-1
US-PATENT-APPL-SN-238264
US-PATENT-CLASS-308-73
US-PATENT-3,804,472

N74-21062* c 35 ..... NASA-CASE-LAR-10295-1
US-PATENT-APPL-SN-221685
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-432
US-PATENT-3,805,622

N74-21063* c 37 ..... NASA-CASE-LEW-10698-1
US-PATENT-APPL-SN-30498
US-PATENT-CLASS-106-52
US-PATENT-CLASS-117-129
US-PATENT-CLASS-161-196
US-PATENT-CLASS-65-DIG.11
US-PATENT-3,804,703

N74-21064* c 37 ..... NASA-CASE-LEW-11087-3
US-PATENT-APPL-SN-201904
US-PATENT-APPL-SN-346361
US-PATENT-CLASS-308-188
US-PATENT-CLASS-308-191
US-PATENT-3,802,753

N74-21065* c 37 ..... NASA-CASE-NPO-11951-1
US-PATENT-APPL-SN-287150
US-PATENT-CLASS-137-628
US-PATENT-CLASS-251-120
US-PATENT-CLASS-251-122
US-PATENT-CLASS-251-210
US-PATENT-3,802,660

N74-21091* c 36 ..... NASA-CASE-GSC-11262-1
US-PATENT-APPL-SN-162380
US-PATENT-CLASS-250-204
US-PATENT-CLASS-33-285
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-172
US-PATENT-3,804,525

N74-21156* c 27 ..... NASA-CASE-ARC-10592-1
US-PATENT-APPL-SN-321179
US-PATENT-CLASS-260.46.5E
US-PATENT-3,803,090

N74-21300* c 70 ..... NASA-CASE-ARC-10516-1
US-PATENT-APPL-SN-267768
US-PATENT-CLASS-350-270
US-PATENT-CLASS-354-234
US-PATENT-3,797,919

N74-21304* c 74 ..... NASA-CASE-GSC-11353-1
US-PATENT-APPL-SN-260241
US-PATENT-CLASS-250-231SE
US-PATENT-CLASS-350-299
US-PATENT-CLASS-356-152
US-PATENT-3,802,779

N74-21850* c 33 ..... NASA-CASE-GSC-11602-1
US-PATENT-APPL-SN-298157
US-PATENT-CLASS-315-10
US-PATENT-CLASS-315-11
US-PATENT-CLASS-315-12
US-PATENT-3,806,756

N74-21851* c 33 ..... NASA-CASE-ARC-10596-1
US-PATENT-APPL-SN-267862
US-PATENT-CLASS-330-28
US-PATENT-CLASS-330-59
US-PATENT-3,811,094

N74-22095* c 35 ..... NASA-CASE-NPO-10617-1
US-PATENT-APPL-SN-828920
US-PATENT-CLASS-73-190H
US-PATENT-3,648,516

N74-22096* c 32 ..... NASA-CASE-XLE-04791
US-PATENT-APPL-SN-582213
US-PATENT-CLASS-330-103
US-PATENT-3,404,348

N74-22136* c 18 ..... NASA-CASE-MFS-20922-1
US-PATENT-APPL-SN-220274
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-49-68
US-PATENT-CLASS-61-83
US-PATENT-3,807,656

N74-22771* c 52 ..... NASA-CASE-ARC-10447-1
US-PATENT-APPL-SN-311175
US-PATENT-CLASS-128-214E
US-PATENT-CLASS-235-151.3
US-PATENT-3,809,871

N74-22814* c 33 ..... NASA-CASE-NPO-13081-1

US-PATENT-APPL-SN-345372
US-PATENT-CLASS-307-215
US-PATENT-CLASS-307-243
US-PATENT-CLASS-307-290
US-PATENT-CLASS-328-154
US-PATENT-3,808,464

N74-22864* c 33 ..... NASA-CASE-XER-11046-2
US-PATENT-APPL-SN-810579
US-PATENT-APPL-SN-87597
US-PATENT-CLASS-321-45R
US-PATENT-3,808,511

N74-22865* c 33 ..... NASA-CASE-LAR-10168-1
US-PATENT-APPL-SN-354407
US-PATENT-CLASS-174-DIG.8
US-PATENT-CLASS-174-69
US-PATENT-CLASS-174-70R
US-PATENT-CLASS-244-151R
US-PATENT-3,809,800

N74-22885* c 33 ..... NASA-CASE-MFS-21671-1
US-PATENT-APPL-SN-329958
US-PATENT-CLASS-323-106
US-PATENT-CLASS-323-122
US-PATENT-CLASS-323-128
US-PATENT-3,808,517

N74-23039* c 34 ..... NASA-CASE-GSC-11620-1
US-PATENT-APPL-SN-280305
US-PATENT-CLASS-126-270
US-PATENT-CLASS-244-127
US-PATENT-CLASS-244-31
US-PATENT-3,807,384

N74-23040* c 35 ..... NASA-CASE-NPO-11932-1
NASA-CASE-NPO-13127-1
US-PATENT-APPL-SN-311234
US-PATENT-CLASS-356-1065
US-PATENT-CLASS-356-113
US-PATENT-3,809,481

N74-23064* c 37 ..... NASA-CASE-LAR-10900-1
US-PATENT-APPL-SN-290021
US-PATENT-CLASS-161-116
US-PATENT-3,809,601

N74-23065* c 31 ..... NASA-CASE-NPO-11758-1
US-PATENT-APPL-SN-266913
US-PATENT-CLASS-204-222
US-PATENT-3,810,829

N74-23066* c 34 ..... NASA-CASE-LAR-10089-1
US-PATENT-APPL-SN-305638
US-PATENT-CLASS-240-47
US-PATENT-CLASS-353-54
US-PATENT-CLASS-353-61
US-PATENT-3,811,044

N74-23068* c 46 ..... NASA-CASE-XNP-10007-1
US-PATENT-APPL-SN-611414
US-PATENT-APPL-SN-768942
US-PATENT-CLASS-299-67
US-PATENT-3,606,470

N74-23069* c 46 ..... NASA-CASE-XNP-09755
US-PATENT-APPL-SN-611414
US-PATENT-APPL-SN-857241
US-PATENT-CLASS-125-1
US-PATENT-CLASS-125-3
US-PATENT-CLASS-299-86
US-PATENT-CLASS-51-283
US-PATENT-3,612,030

N74-23070* c 37 ..... NASA-CASE-MFS-20645-1
US-PATENT-APPL-SN-103091
US-PATENT-CLASS-74-217R
US-PATENT-3,678,771

N74-23125* c 27 ..... NASA-CASE-LEW-10199-1
US-PATENT-APPL-SN-651972
US-PATENT-CLASS-117-126GR
US-PATENT-CLASS-117-132B
US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-260-78TF
US-PATENT-3,647,529

N74-25968* c 37 ..... NASA-CASE-MFS-21485-1
US-PATENT-APPL-SN-277436
US-PATENT-CLASS-408-111
US-PATENT-CLASS-408-80
US-PATENT-CLASS-90-12.5
US-PATENT-3,813,183

N74-26625* c 52 ..... NASA-CASE-NPO-13065-1
US-PATENT-APPL-SN-269073
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-325-113
US-PATENT-CLASS-325-141
US-PATENT-CLASS-340-183
US-PATENT-CLASS-340-203
US-PATENT-CLASS-340-207R
US-PATENT-3,815,109

N74-26626* c 52 ..... NASA-CASE-MSC-13999-1
US-PATENT-APPL-SN-256317
US-PATENT-CLASS-128-2.05A
US-PATENT-CLASS-128-2.05S
US-PATENT-3,814,083

N74-26654* c 32 ..... NASA-CASE-MSC-14065-1
US-PATENT-APPL-SN-297128
US-PATENT-CLASS-178-67
US-PATENT-CLASS-325-30
US-PATENT-3,816,657

N74-26732* c 33 ..... NASA-CASE-MFS-21698-1
US-PATENT-APPL-SN-37050
US-PATENT-CLASS-331-109
US-PATENT-CLASS-331-117R
US-PATENT-CLASS-331-183
US-PATENT-3,815,048

N74-26767* c 73 ..... NASA-CASE-NPO-13112-1
US-PATENT-APPL-SN-267572
US-PATENT-CLASS-250-499
US-PATENT-CLASS-313-61S
US-PATENT-3,816,785

N74-26945* c 35 ..... NASA-CASE-MFS-21556-1
US-PATENT-APPL-SN-340791
US-PATENT-CLASS-177-200
US-PATENT-CLASS-177-211
US-PATENT-CLASS-177-246
US-PATENT-CLASS-73-141A
US-PATENT-3,812,924

N74-26946* c 35 ..... NASA-CASE-MFS-22040-1
US-PATENT-APPL-SN-365644
US-PATENT-CLASS-350-3.5
US-PATENT-CLASS-96-38.3
US-PATENT-CLASS-96-79
US-PATENT-3,815,969

N74-26947* c 25 ..... NASA-CASE-ARC-10633-1
US-PATENT-APPL-SN-354611
US-PATENT-CLASS-250-304
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-373
US-PATENT-3,814,939

N74-26948* c 25 ..... NASA-CASE-MFS-21395-1
US-PATENT-APPL-SN-260093
US-PATENT-CLASS-204-180R
US-PATENT-3,814,678

N74-26949* c 35 ..... NASA-CASE-GSC-11492-1
US-PATENT-APPL-SN-372148
US-PATENT-CLASS-250-374
US-PATENT-CLASS-250-385
US-PATENT-CLASS-313-93
US-PATENT-3,812,358

N74-26976* c 37 ..... NASA-CASE-MFS-21846-1
US-PATENT-APPL-SN-359958
US-PATENT-CLASS-188-163
US-PATENT-CLASS-188-171
US-PATENT-3,812,936

N74-26977* c 33 ..... NASA-CASE-MFS-22133-1
US-PATENT-APPL-SN-337487
US-PATENT-CLASS-29-203MW
US-PATENT-3,815,205

N74-27035* c 24 ..... NASA-CASE-XLA-11028-1
US-PATENT-APPL-SN-219435
US-PATENT-CLASS-156-285
US-PATENT-3,814,653

N74-27037* c 27 ..... NASA-CASE-ARC-10304-2
US-PATENT-APPL-SN-140946
US-PATENT-APPL-SN-318358
US-PATENT-CLASS-102-105
US-PATENT-CLASS-106-15FP
US-PATENT-CLASS-252-62
US-PATENT-CLASS-252-8.1
US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-2.5FP
US-PATENT-CLASS-260-2.5R
US-PATENT-CLASS-260-2R
US-PATENT-CLASS-260-396N
US-PATENT-3,819,550

N74-27360* c 15 ..... NASA-CASE-LAR-10670-2
US-PATENT-APPL-SN-248761
US-PATENT-APPL-SN-59892
US-PATENT-CLASS-102-90
US-PATENT-CLASS-60-214
US-PATENT-CLASS-60-215
US-PATENT-CLASS-60-39.46
US-PATENT-3,813,875

N74-27397* c 18 ..... NASA-CASE-MFS-21680-1
NASA-CASE-MFS-21681-1
US-PATENT-APPL-SN-343607
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-248-16
US-PATENT-CLASS-248-23
US-PATENT-3,814,350

N74-27425* c 28 ..... NASA-CASE-NPO-11743-1
US-PATENT-APPL-SN-277904
US-PATENT-CLASS-102-28EB
US-PATENT-CLASS-102-70.2A
US-PATENT-CLASS-102-70.2R
US-PATENT-3,812,783

N74-27490* c 07 ..... NASA-CASE-LEW-11286-1
US-PATENT-APPL-SN-339806
US-PATENT-CLASS-181-33HB
US-PATENT-CLASS-239-265.17
US-PATENT-3,820,630

N74-27519* c 44 ..... NASA-CASE-MFS-20761-1
US-PATENT-APPL-SN-326327
US-PATENT-CLASS-136-182
US-PATENT-CLASS-324-29.5
US-PATENT-CLASS-324-72.5
US-PATENT-3,818,325

N74-27566* c 52 ..... NASA-CASE-GSC-11531-1
US-PATENT-APPL-SN-291845
US-PATENT-CLASS-128-2.05E
US-PATENT-CLASS-73-398AR
US-PATENT-3,811,429

N74-27612* c 32 ..... NASA-CASE-MSC-14219-1
US-PATENT-APPL-SN-324029
US-PATENT-CLASS-117-2R
US-PATENT-CLASS-156-94
US-PATENT-CLASS-179-100.2A
US-PATENT-CLASS-179-100.2B
US-PATENT-CLASS-264-36
US-PATENT-3,819,440

N74-27682* c 33 ..... NASA-CASE-ARC-10593-1
US-PATENT-APPL-SN-310193
US-PATENT-CLASS-250-207
US-PATENT-CLASS-307-252L
US-PATENT-CLASS-307-252Q
US-PATENT-3,821,546

N74-27683* c 33 ..... NASA-CASE-LEW-10950-1
US-PATENT-APPL-SN-273222
US-PATENT-CLASS-174-111
US-PATENT-CLASS-174-15C
US-PATENT-CLASS-174-28
US-PATENT-CLASS-310-4R
US-PATENT-3,821,462

N74-27705* c 33 ..... NASA-CASE-MSC-14066-1
US-PATENT-APPL-SN-297127
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-320
US-PATENT-3,818,346

N74-27730* c 34 ..... NASA-CASE-MFS-21424-1
US-PATENT-APPL-SN-315048
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-3
US-PATENT-3,817,082

N74-27744* c 34 ..... NASA-CASE-MFS-21394-1
US-PATENT-APPL-SN-258171
US-PATENT-CLASS-204-180R
US-PATENT-CLASS-204-299
US-PATENT-3,821,102

N74-27859* c 34 ..... NASA-CASE-GSC-11434-1
US-PATENT-APPL-SN-263498
US-PATENT-CLASS-73-190R
US-PATENT-3,813,937

N74-27860* c 35 ..... NASA-CASE-MSC-14081-1
US-PATENT-APPL-SN-331760
US-PATENT-CLASS-250-576
US-PATENT-CLASS-356-180
US-PATENT-CLASS-356-246
US-PATENT-3,817,627

N74-27861* c 34 ..... NASA-CASE-MFS-21108-1
US-PATENT-APPL-SN-307728
US-PATENT-CLASS-136-213
US-PATENT-CLASS-136-230
US-PATENT-CLASS-136-233
US-PATENT-3,819,419

N74-27862* c 33 ..... NASA-CASE-KSC-10731-1
US-PATENT-APPL-SN-288847
US-PATENT-CLASS-324-72
US-PATENT-CLASS-340-151
US-PATENT-CLASS-340-182
US-PATENT-CLASS-340-200
US-PATENT-CLASS-73-170R
US-PATENT-3,820,095

N74-27864* c 52 ..... NASA-CASE-MFS-21049-1
US-PATENT-APPL-SN-304430
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-338-114
US-PATENT-CLASS-338-5
US-PATENT-CLASS-73-88.5R
US-PATENT-3,820,529

N74-27865* c 35 ..... NASA-CASE-MFS-21728-1
US-PATENT-APPL-SN-361907
US-PATENT-CLASS-73-141A
US-PATENT-3,820,388

N74-27866* c 74 ..... NASA-CASE-MFS-21372-1
US-PATENT-APPL-SN-226477
US-PATENT-CLASS-250-505
US-PATENT-CLASS-250-511
US-PATENT-3,821,556

N74-27900* c 31 ..... NASA-CASE-LAR-10841-1
US-PATENT-APPL-SN-307729
US-PATENT-CLASS-13-31
US-PATENT-CLASS-73-15R
US-PATENT-3,817,084

N74-27901* c 37 ..... NASA-CASE-ARC-10462-1
US-PATENT-APPL-SN-310615
US-PATENT-CLASS-74-675
US-PATENT-CLASS-74-710
US-PATENT-3,818,775

N74-27902* c 31 ..... NASA-CASE-GSC-11445-1
US-PATENT-APPL-SN-248471
US-PATENT-CLASS-236-49
US-PATENT-CLASS-98-39
US-PATENT-3,818,814

N74-27903* c 37 ..... NASA-CASE-MSC-12549-1
US-PATENT-APPL-SN-301039
US-PATENT-CLASS-244-1SD
US-PATENT-3,820,741

N74-27904* c 37 ..... NASA-CASE-LEW-11672-1
US-PATENT-APPL-SN-305639
US-PATENT-CLASS-417-52
US-PATENT-3,819,299

N74-27905* c 37 ..... NASA-CASE-LAR-10450-1
US-PATENT-APPL-SN-289017
US-PATENT-CLASS-51-225
US-PATENT-CLASS-51-234
US-PATENT-CLASS-51-97R
US-PATENT-3,820,286

N74-28097* c 35 ..... NASA-CASE-GSC-11479-1
US-PATENT-APPL-SN-293739
US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-74-5.5
US-PATENT-3,818,767

N74-28226* c 07 ..... NASA-CASE-LEW-11402-1
US-PATENT-APPL-SN-219806
US-PATENT-CLASS-415-181
US-PATENT-CLASS-416-223
US-PATENT-CLASS-416-237
US-PATENT-3,820,918

N74-29410* c 19 ..... NASA-CASE-MFS-21577-1
US-PATENT-APPL-SN-343308
US-PATENT-CLASS-250-372
US-PATENT-CLASS-250-394
US-PATENT-3,825,760

N74-29556* c 33 ..... NASA-CASE-KSC-10769-1
US-PATENT-APPL-SN-374583
US-PATENT-CLASS-318-602
US-PATENT-CLASS-318-603
US-PATENT-CLASS-318-664
US-PATENT-3,826,964

N74-30001* c 24 ..... NASA-CASE-LAR-10416-1
US-PATENT-APPL-SN-251752
US-PATENT-CLASS-156-94
US-PATENT-3,814,645

N74-30156* c 75 ..... NASA-CASE-ARC-10598-1
US-PATENT-APPL-SN-318151
US-PATENT-CLASS-356-201
US-PATENT-CLASS-356-43
US-PATENT-CLASS-356-73
US-PATENT-CLASS-356-85
US-PATENT-CLASS-356-87
US-PATENT-3,817,622

N74-30421* c 08 ..... NASA-CASE-LAR-10753-1
US-PATENT-APPL-SN-289018
US-PATENT-CLASS-244-327
US-PATENT-CLASS-244-90R
US-PATENT-CLASS-244-91
US-PATENT-3,826,448

N74-30502* c 25 ..... NASA-CASE-LEW-10906-1
US-PATENT-APPL-SN-245279
US-PATENT-APPL-SN-876588
US-PATENT-CLASS-204-157.1H
US-PATENT-3,826,726

N74-30523* c 32 ..... NASA-CASE-NPO-11921-1
US-PATENT-APPL-SN-359039
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-325-346
US-PATENT-3,828,138

N74-30524* c 32 ..... NASA-CASE-MSC-13912-1
US-PATENT-APPL-SN-310034
US-PATENT-CLASS-179-15AT
US-PATENT-CLASS-179-15BY
US-PATENT-3,828,137

N74-30597* c 09 ..... NASA-CASE-LAR-10550-1
US-PATENT-APPL-SN-261183
US-PATENT-CLASS-35-12E
US-PATENT-3,824,707

N74-30608* c 34 ..... NASA-CASE-LAR-10194-1
US-PATENT-APPL-SN-169962
US-PATENT-CLASS-55-159
US-PATENT-CLASS-55-199
US-PATENT-CLASS-55-43
US-PATENT-3,828,524

N74-30886* c 89 ..... NASA-CASE-GSC-11569-1
US-PATENT-APPL-SN-293725
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-33-268
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-147
US-PATENT-3,827,807

N74-31148* c 71 ..... NASA-CASE-NPO-11623-1
US-PATENT-APPL-SN-235338
US-PATENT-CLASS-181.5R
US-PATENT-CLASS-73-69
US-PATENT-CLASS-73-71.5R
US-PATENT-3,827,288

N74-31269* c 20 ..... NASA-CASE-LEW-11646-1
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US-PATENT-CLASS-204-192
US-PATENT-3,826,729

N74-31270* c 07 ..... NASA-CASE-LAR-10642-1
US-PATENT-APPL-SN-266820
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-415-181
US-PATENT-3,829,237

N74-32418* c 07 ..... NASA-CASE-LAR-11141-1
US-PATENT-APPL-SN-359957
US-PATENT-CLASS-181-33C
US-PATENT-CLASS-181-33F
US-PATENT-CLASS-181-33H
US-PATENT-CLASS-181-33L
US-PATENT-CLASS-181-42
US-PATENT-3,830,335

N74-32546* c 54 ..... NASA-CASE-MSC-11072
US-PATENT-APPL-SN-689455
US-PATENT-CLASS-156-218
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-82
US-PATENT-3,832,735

N74-32598* c 32 ..... NASA-CASE-MSC-14070-1
US-PATENT-APPL-SN-266940
US-PATENT-CLASS-340-146.1AQ
US-PATENT-3,831,142

N74-32660* c 33 ..... NASA-CASE-GSC-11617-1
US-PATENT-APPL-SN-402865
US-PATENT-CLASS-330-4.9
US-PATENT-CLASS-330-53
US-PATENT-3,833,857

N74-32711* c 33 ..... NASA-CASE-MSC-14130-1
US-PATENT-APPL-SN-373587
US-PATENT-CLASS-307-267
US-PATENT-CLASS-328-58
US-PATENT-3,831,098

N74-32712* c 33 ..... NASA-CASE-NPO-11948-1
US-PATENT-APPL-SN-306652
US-PATENT-CLASS-307-230
US-PATENT-CLASS-330-69
US-PATENT-CLASS-333-80R
US-PATENT-3,831,117

N74-32877* c 35 ..... NASA-CASE-LAR-10806-1
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US-PATENT-CLASS-33-1M
US-PATENT-CLASS-33-23R
US-PATENT-CLASS-338-89
US-PATENT-CLASS-340-347AD
US-PATENT-CLASS-346-33R
US-PATENT-3,832,781

N74-32878* c 35 ..... NASA-CASE-LAR-11139-1
US-PATENT-APPL-SN-287149
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-388
US-PATENT-3,832,903

N74-32879* c 35 ..... NASA-CASE-MSC-14187-1
US-PATENT-APPL-SN-326326
US-PATENT-CLASS-23-230L
US-PATENT-CLASS-73-104
US-PATENT-CLASS-73-15.4
US-PATENT-CLASS-73-40.7
US-PATENT-3,830,094

N74-32917* c 31 ..... NASA-CASE-NPO-13205-1
US-PATENT-APPL-SN-393525
US-PATENT-CLASS-425-28B
US-PATENT-CLASS-425-35
US-PATENT-3,833,322

N74-32918* c 37 ..... NASA-CASE-NPO-13157-1
US-PATENT-APPL-SN-370872
US-PATENT-CLASS-29-203H
US-PATENT-CLASS-29-268
US-PATENT-3,832,764

N74-32919* c 20 ..... NASA-CASE-LEW-11118-1
US-PATENT-APPL-SN-289050
US-PATENT-CLASS-204-9
US-PATENT-3,832,290

N74-32920* c 31 ..... NASA-CASE-LAR-10489-2
US-PATENT-APPL-SN-198763
US-PATENT-APPL-SN-350300
US-PATENT-CLASS-249-145
US-PATENT-CLASS-249-184
US-PATENT-CLASS-249-83
US-PATENT-CLASS-249-95
US-PATENT-CLASS-425-128
US-PATENT-CLASS-425-415
US-PATENT-3,830,609

N74-32921* c 37 ..... NASA-CASE-LEW-11076-2
US-PATENT-APPL-SN-238264
US-PATENT-APPL-SN-346483
US-PATENT-CLASS-308-121
US-PATENT-3,830,552

N74-33209* c 28 ..... NASA-CASE-NPO-11975-1
US-PATENT-APPL-SN-329243
US-PATENT-CLASS-149-17
US-PATENT-CLASS-149-60
US-PATENT-CLASS-149-76
US-PATENT-3,830,673

N74-33218* c 07 ..... NASA-CASE-ARC-10712-1
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US-PATENT-CLASS-181-33HC
US-PATENT-CLASS-239-265.11
US-PATENT-3,830,431

N74-33378* c 25 ..... NASA-CASE-MFS-21675-1
US-PATENT-APPL-SN-392823
US-PATENT-CLASS-23-277C
US-PATENT-CLASS-431-202
US-PATENT-3,833,336

N74-33379* c 44 ..... NASA-CASE-ARC-10461-1
US-PATENT-APPL-SN-336319
US-PATENT-CLASS-60-527
US-PATENT-3,830,060

N74-34638* c 33 ..... NASA-CASE-MFS-22343-1
US-PATENT-APPL-SN-329237
US-PATENT-CLASS-307-18
US-PATENT-CLASS-307-295
US-PATENT-CLASS-307-304
US-PATENT-CLASS-307-35
US-PATENT-3,840,829

N74-34672* c 85 ..... NASA-CASE-LAR-10256-1
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US-PATENT-CLASS-104-23FS
US-PATENT-CLASS-238-134
US-PATENT-3,837,285

N74-34857* c 35 ..... NASA-CASE-LAR-11428-1
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US-PATENT-APPL-SN-357126
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-295
US-PATENT-3,835,318

N75-12086* c 25 ..... NASA-CASE-ARC-10469-1
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US-PATENT-3,846,243

N75-12087* c 25 ..... NASA-CASE-ARC-10643-1
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US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-117-161UZ
US-PATENT-CLASS-117-93.1GD
US-PATENT-CLASS-204-177
US-PATENT-CLASS-210-500
US-PATENT-CLASS-264-217
US-PATENT-CLASS-264-22
US-PATENT-3,847,652

N75-12161* c 31 ..... NASA-CASE-MFS-20775-1
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US-PATENT-CLASS-118-49.1
US-PATENT-3,847,115

N75-12222* c 34 ..... NASA-CASE-GSC-11619-1
US-PATENT-APPL-SN-397476
US-PATENT-CLASS-138-113
US-PATENT-CLASS-138-114
US-PATENT-CLASS-138-148
US-PATENT-CLASS-165-1
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-47
US-PATENT-CLASS-220-15
US-PATENT-CLASS-244-1SC
US-PATENT-3,847,208

N75-12270* c 35 ..... NASA-CASE-KSC-10750-1
US-PATENT-APPL-SN-346372
US-PATENT-CLASS-324-158T
US-PATENT-CLASS-324-60C
US-PATENT-3,848,190

N75-12271* c 35 ..... NASA-CASE-MFS-20994-1
US-PATENT-APPL-SN-386789
US-PATENT-CLASS-128-2V
US-PATENT-CLASS-73-67.1
US-PATENT-3,847,141

N75-12272* c 35 ..... NASA-CASE-LAR-11069-1
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US-PATENT-CLASS-195-127
US-PATENT-3,841,973

N75-12273* c 35 ..... NASA-CASE-MFS-20506-1
US-PATENT-APPL-SN-328792
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US-PATENT-CLASS-33-180R
US-PATENT-CLASS-350-292
US-PATENT-3,842,509

N75-12326* c 37 ..... NASA-CASE-LAR-11211-1
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US-PATENT-CLASS-29-475
US-PATENT-3,842,485

N75-12616* c 54 ..... NASA-CASE-MFS-21611-1
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US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-307-149
US-PATENT-CLASS-308-174

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N75-12732* c 74 ..... NASA-CASE-ARC-10448-2
US-PATENT-APPL-SN-374424
US-PATENT-CLASS-156-16
US-PATENT-CLASS-156-18
US-PATENT-CLASS-156-7
US-PATENT-CLASS-250-495
US-PATENT-3,847,689
N75-12810* c 76 ..... NASA-CASE-LAR-11059-1
US-PATENT-APPL-SN-367294
US-PATENT-CLASS-73-32R
US-PATENT-CLASS-73-432PS
US-PATENT-3,842,656
N75-12930* c 05 ..... NASA-CASE-ARC-10456-1
US-PATENT-APPL-SN-237491
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US-PATENT-CLASS-244-83R
US-PATENT-CLASS-416-25
US-PATENT-CLASS-74-480R
US-PATENT-3,850,388
N75-12968* c 09 ..... NASA-CASE-MFS-22039-1
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US-PATENT-CLASS-108-136
US-PATENT-3,853,075
N75-12969* c 09 ..... NASA-CASE-ARC-10710-1
US-PATENT-APPL-SN-379019
US-PATENT-CLASS-73-147
US-PATENT-3,853,003
N75-13007* c 15 ..... NASA-CASE-GSC-11182-1
US-PATENT-APPL-SN-393527
US-PATENT-CLASS-325-4
US-PATENT-3,851,250
N75-13032* c 24 ..... NASA-CASE-LAR-10994-1
US-PATENT-APPL-SN-390466
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US-PATENT-CLASS-29-604
US-PATENT-CLASS-340-174MA
US-PATENT-CLASS-75-200
US-PATENT-3,849,877
N75-13111* c 31 ..... NASA-CASE-LAR-10782-2
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US-PATENT-APPL-SN-379049
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US-PATENT-CLASS-249-145
US-PATENT-CLASS-249-59
US-PATENT-CLASS-425-DIG.43
US-PATENT-CLASS-425-405R
US-PATENT-CLASS-425-438
US-PATENT-CLASS-425-468
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N75-13139* c 33 ..... NASA-CASE-MFS-22073-1
US-PATENT-APPL-SN-409991
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US-PATENT-CLASS-318-640
US-PATENT-CLASS-318-649
US-PATENT-CLASS-318-675
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N75-13213* c 35 ..... NASA-CASE-LEW-11632-2
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US-PATENT-APPL-SN-327969
US-PATENT-CLASS-29-571
US-PATENT-CLASS-29-592
US-PATENT-CLASS-307-309
US-PATENT-CLASS-317-235H
US-PATENT-CLASS-330-6
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US-PATENT-CLASS-29-197
US-PATENT-CLASS-29-460
US-PATENT-CLASS-29-494
US-PATENT-CLASS-29-497.5
US-PATENT-CLASS-29-504
US-PATENT-3,849,865
N75-13265* c 37 ..... NASA-CASE-KSC-10723-1
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US-PATENT-CLASS-338-162
US-PATENT-CLASS-338-75
US-PATENT-CLASS-338-97
US-PATENT-3,854,113
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US-PATENT-APPL-SN-412079
US-PATENT-CLASS-74-436
US-PATENT-CLASS-74-820
US-PATENT-3,855,873
N75-13502* c 51 ..... NASA-CASE-LAR-11074-1
US-PATENT-APPL-SN-326364
US-PATENT-CLASS-115-103.5
US-PATENT-CLASS-195-120
US-PATENT-CLASS-195-127
US-PATENT-3,850,754
N75-13531* c 54 ..... NASA-CASE-LEW-11581-1
US-PATENT-APPL-SN-327921
US-PATENT-CLASS-128-2.05A
US-PATENT-CLASS-128-2.05P
US-PATENT-3,850,169
N75-13539* c 60 ..... NASA-CASE-ARC-10466-1
US-PATENT-APPL-SN-352382
US-PATENT-CLASS-235-156
US-PATENT-CLASS-235-197
US-PATENT-CLASS-324-77B
US-PATENT-3,851,162
N75-13625* c 75 ..... NASA-CASE-MFS-22145-1
US-PATENT-APPL-SN-367606
US-PATENT-CLASS-176-3
US-PATENT-CLASS-313-63
US-PATENT-CLASS-315-111
US-PATENT-CLASS-328-233
US-PATENT-3,854,097
N75-14834* c 23 ..... NASA-CASE-MSC-13530-2
US-PATENT-APPL-SN-178771
US-PATENT-APPL-SN-69488
US-PATENT-CLASS-106-13
US-PATENT-CLASS-106-15R
US-PATENT-CLASS-106-287SB
US-PATENT-CLASS-117-124F
US-PATENT-CLASS-117-135.5
US-PATENT-CLASS-252-549
US-PATENT-CLASS-252-70
US-PATENT-3,856,534
N75-14844* c 25 ..... NASA-CASE-NPO-12130-1
US-PATENT-APPL-SN-750235
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-23-253R
US-PATENT-3,856,471
N75-14957* c 33 ..... NASA-CASE-MSC-14240-1
US-PATENT-APPL-SN-351929
US-PATENT-CLASS-307-205
US-PATENT-CLASS-307-208
US-PATENT-3,857,045
N75-15014* c 35 ..... NASA-CASE-LAR-11213-1
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US-PATENT-CLASS-250-201
US-PATENT-CLASS-356-4
US-PATENT-3,857,031
N75-15028* c 36 ..... NASA-CASE-MFS-21244-1
US-PATENT-APPL-SN-350249
US-PATENT-CLASS-356-103
US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-5
US-PATENT-3,856,402
N75-15029* c 36 ..... NASA-CASE-NPO-13050-1
US-PATENT-APPL-SN-317567
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US-PATENT-CLASS-117-97
US-PATENT-CLASS-330-4
US-PATENT-CLASS-332-7.5
US-PATENT-3,859,119
N75-15050* c 37 ..... NASA-CASE-NPO-13201-1
US-PATENT-APPL-SN-372149
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US-PATENT-CLASS-137-505.42
US-PATENT-CLASS-74-424.8VA
US-PATENT-3,856,042
N75-15270* c 52 ..... NASA-CASE-NPO-12119-1
US-PATENT-APPL-SN-847815
US-PATENT-CLASS-424-180
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N75-15662* c 09 ..... NASA-CASE-LAR-10276-1
US-PATENT-APPL-SN-29979
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US-PATENT-CLASS-272-57A
US-PATENT-CLASS-35-12C
US-PATENT-3,859,736
N75-15854* c 32 ..... NASA-CASE-NPO-13292-1
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US-PATENT-CLASS-343-17.5
US-PATENT-CLASS-343-6.5R
US-PATENT-CLASS-343-9
US-PATENT-3,860,921
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US-PATENT-APPL-SN-426155
US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-230
US-PATENT-CLASS-318-231
US-PATENT-3,860,858
N75-15931* c 35 ..... NASA-CASE-MFS-21761-1
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US-PATENT-CLASS-200-83N
US-PATENT-CLASS-73-40
US-PATENT-CLASS-73-49.2
US-PATENT-3,859,845
N75-15932* c 35 ..... NASA-CASE-MFS-21045-1
US-PATENT-APPL-SN-411572
US-PATENT-CLASS-73-1R
US-PATENT-CLASS-73-379
US-PATENT-3,859,840
N75-15992* c 37 ..... NASA-CASE-GSC-11577-1
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US-PATENT-CLASS-117-93.3
US-PATENT-CLASS-156-89
US-PATENT-CLASS-156-99
US-PATENT-CLASS-29-472.7
US-PATENT-CLASS-29-473.1
US-PATENT-CLASS-65-43
US-PATENT-3,859,714
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US-PATENT-APPL-SN-352383
US-PATENT-CLASS-356-28
US-PATENT-3,860,342
N75-18310* c 20 ..... NASA-CASE-LEW-11694-1
US-PATENT-APPL-SN-352381
US-PATENT-CLASS-29-25.18
US-PATENT-CLASS-72-63
US-PATENT-3,864,797
N75-18477* c 33 ..... NASA-CASE-MFS-22129-1
US-PATENT-APPL-SN-370255
US-PATENT-CLASS-324-32
US-PATENT-CLASS-324-54
US-PATENT-3,866,114
N75-18479* c 33 ..... NASA-CASE-MSC-14129-1
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US-PATENT-CLASS-307-235R
US-PATENT-CLASS-307-267
US-PATENT-CLASS-328-115
US-PATENT-CLASS-328-151
US-PATENT-CLASS-328-58
US-PATENT-3,869,624
N75-18573* c 37 ..... NASA-CASE-NPO-13253-1
US-PATENT-APPL-SN-395687
US-PATENT-CLASS-248-358R
US-PATENT-3,863,881
N75-18574* c 37 ..... NASA-CASE-GSC-11079-1
US-PATENT-APPL-SN-100637
US-PATENT-CLASS-308-10
US-PATENT-3,865,442
N75-19329* c 18 ..... NASA-CASE-MFS-22734-1
US-PATENT-APPL-SN-453232
US-PATENT-CLASS-244-162
US-PATENT-3,866,863
N75-19408* c 26 ..... NASA-CASE-LEW-11696-2
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US-PATENT-APPL-SN-436315
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US-PATENT-CLASS-29-196.6
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US-PATENT-CLASS-235-92VA
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US-PATENT-CLASS-310-52
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US-PATENT-CLASS-118-49.1
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US-PATENT-CLASS-233-6
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US-PATENT-CLASS-29-182.5
US-PATENT-CLASS-29-420.5
US-PATENT-CLASS-65-3
US-PATENT-CLASS-75-DIG.1
US-PATENT-CLASS-75-200
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US-PATENT-CLASS-214-1CM
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US-PATENT-3,898,730
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US-PATENT-CLASS-330-18
US-PATENT-CLASS-330-40
US-PATENT-CLASS-330-63
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US-PATENT-CLASS-330-24
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N75-30430* c 33 ..... NASA-CASE-NPO-13504-1
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US-PATENT-CLASS-333-21R
US-PATENT-CLASS-333-83BT
US-PATENT-CLASS-333-98R
US-PATENT-3,902,143
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US-PATENT-APPL-SN-400467
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US-PATENT-CLASS-178-6.8
US-PATENT-3,900,705
N75-30502* c 35 ..... NASA-CASE-ARC-10802-1
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US-PATENT-CLASS-205-343
US-PATENT-CLASS-250-351
US-PATENT-CLASS-250-373
US-PATENT-CLASS-356-51
US-PATENT-3,899,252
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US-PATENT-CLASS-73-195
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US-PATENT-CLASS-307-211
US-PATENT-CLASS-307-219
US-PATENT-CLASS-328-61
US-PATENT-CLASS-328-62
US-PATENT-3,900,741
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US-PATENT-CLASS-331-DIG.1
US-PATENT-3,899,696
N75-30562* c 37 ..... NASA-CASE-LEW-11076-3
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US-PATENT-CLASS-308-121
US-PATENT-CLASS-308-73
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US-PATENT-CLASS-250-496
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US-PATENT-CLASS-73-88.5
US-PATENT-3,905,356

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US-PATENT-CLASS-328-41
US-PATENT-3,906,374

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US-PATENT-CLASS-340-173CA
US-PATENT-CLASS-357-24
US-PATENT-CLASS-357-7
US-PATENT-3,906,296

N75-31332* c 33 ..... NASA-CASE-NPO-13348-1
US-PATENT-APPL-SN-452770
US-PATENT-CLASS-250-238
US-PATENT-CLASS-250-370
US-PATENT-CLASS-357-5
US-PATENT-3,906,231

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US-PATENT-CLASS-331-94.5P
US-PATENT-3,906,397

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US-PATENT-CLASS-350-161
US-PATENT-CLASS-350-96WG
US-PATENT-3,906,393

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US-PATENT-CLASS-308-195
US-PATENT-CLASS-308-201
US-PATENT-3,905,660

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US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5PE
US-PATENT-CLASS-331-94-5G
US-PATENT-3,906,398

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US-PATENT-CLASS-60-641
US-PATENT-CLASS-60-659
US-PATENT-3,903,699

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US-PATENT-CLASS-117-46FS
US-PATENT-CLASS-117-8.5
US-PATENT-CLASS-29-DIG.24
US-PATENT-CLASS-29-DIG.39
US-PATENT-CLASS-29-527.2
US-PATENT-CLASS-72-46
US-PATENT-3,906,769

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US-PATENT-CLASS-210-340
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US-PATENT-CLASS-210-512
US-PATENT-CLASS-210-82
US-PATENT-3,907,686

N75-33367* c 35 ..... NASA-CASE-LAR-10629-1
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US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-432PS
US-PATENT-3,896,758

N75-33368* c 35 ..... NASA-CASE-LAR-11326-1
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US-PATENT-CLASS-195-103.5R
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N75-33369* c 35 ..... NASA-CASE-LAR-11263-1
US-PATENT-APPL-SN-472775
US-PATENT-CLASS-73-141A
US-PATENT-3,906,788

N75-33395* c 37 ..... NASA-CASE-MFS-22283-1
US-PATENT-APPL-SN-387095
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US-PATENT-CLASS-279-107
US-PATENT-CLASS-279-89
US-PATENT-CLASS-29-26A
US-PATENT-CLASS-294-116
US-PATENT-CLASS-294-86.33
US-PATENT-3,907,312

N75-33640* c 52 ..... NASA-CASE-LEW-12051-1
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US-PATENT-CLASS-128-305
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US-PATENT-CLASS-244-3.21
US-PATENT-CLASS-74-5.7
US-PATENT-3,915,416

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US-PATENT-CLASS-244-161
US-PATENT-CLASS-33-286
US-PATENT-CLASS-35-12
US-PATENT-CLASS-356-153
US-PATENT-3,910,533

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US-PATENT-CLASS-60-39.29
US-PATENT-CLASS-60-39.74R
US-PATENT-3,910,035

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US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-3,910,039

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US-PATENT-CLASS-423-407
US-PATENT-3,919,014

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US-PATENT-CLASS-136-148
US-PATENT-CLASS-162-102
US-PATENT-CLASS-162-153
US-PATENT-CLASS-162-222
US-PATENT-CLASS-162-228
US-PATENT-3,910,814

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US-PATENT-CLASS-403-28
US-PATENT-CLASS-428-109
US-PATENT-CLASS-428-212
US-PATENT-CLASS-428-214
US-PATENT-CLASS-428-416
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-77
US-PATENT-3,920,339

N76-14284* c 31 ..... NASA-CASE-NPO-13435-1
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US-PATENT-CLASS-62-49
US-PATENT-CLASS-73-295
US-PATENT-3,914,950

N76-14321* c 32 ..... NASA-CASE-LAR-11021-1
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US-PATENT-CLASS-325-306
US-PATENT-CLASS-325-372
US-PATENT-CLASS-328-145
US-PATENT-CLASS-343-176
US-PATENT-3,916,316

N76-14371* c 33 ..... NASA-CASE-KSC-10834-1
US-PATENT-APPL-SN-536535
US-PATENT-CLASS-178-69.5R
US-PATENT-CLASS-178-88
US-PATENT-CLASS-328-190
US-PATENT-CLASS-328-63
US-PATENT-3,916,084

N76-14372* c 33 ..... NASA-CASE-LAR-10970-1
US-PATENT-APPL-SN-527790
US-PATENT-CLASS-343-770
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-846
US-PATENT-3,919,710

N76-14373* c 33 ..... NASA-CASE-NPO-13451-1
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US-PATENT-CLASS-307-221R
US-PATENT-CLASS-328-37
US-PATENT-3,911,330

N76-14429* c 35 ..... NASA-CASE-LAR-11552-1
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US-PATENT-CLASS-73-212
US-PATENT-3,914,997

N76-14430* c 35 ..... NASA-CASE-NPO-13170-1
US-PATENT-APPL-SN-382261
US-PATENT-CLASS-338-6
US-PATENT-CLASS-73-88.5R
US-PATENT-3,914,991

N76-14431* c 35 ..... NASA-CASE-LEW-11915-1
US-PATENT-APPL-SN-474744
US-PATENT-CLASS-137-15.2
US-PATENT-CLASS-235-151.34
US-PATENT-CLASS-60-39.29
US-PATENT-3,911,260

N76-14447* c 36 ..... NASA-CASE-ARC-10642-1
US-PATENT-APPL-SN-446562
US-PATENT-CLASS-356-106R
US-PATENT-CLASS-356-28
US-PATENT-3,915,572

N76-14460* c 37 ..... NASA-CASE-MFS-19194-1
US-PATENT-APPL-SN-483850
US-PATENT-CLASS-285-226
US-PATENT-CLASS-285-265
US-PATENT-3,915,482

N76-14461* c 37 ..... NASA-CASE-LEW-11694-2
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US-PATENT-APPL-SN-462903
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US-PATENT-CLASS-72-363
US-PATENT-CLASS-72-54
US-PATENT-CLASS-72-63
US-PATENT-3,914,969

N76-14463* c 37 ..... NASA-CASE-MFS-22323-1
US-PATENT-APPL-SN-474745
US-PATENT-CLASS-137-515.3
US-PATENT-CLASS-137-550
US-PATENT-CLASS-210-429
US-PATENT-CLASS-251-149.6
US-PATENT-3,910,307

N76-14595* c 44 ..... NASA-CASE-MFS-22562-1
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US-PATENT-CLASS-126-270
US-PATENT-CLASS-136-206
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US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-38A
US-PATENT-CLASS-204-40
US-PATENT-CLASS-204-42
US-PATENT-CLASS-204-49
US-PATENT-CLASS-29-194
US-PATENT-CLASS-29-195
US-PATENT-CLASS-29-197
US-PATENT-3,920,413

N76-14600* c 44 ..... NASA-CASE-LEW-11065-2
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US-PATENT-APPL-SN-371322
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-572
US-PATENT-3,912,540

N76-14601* c 44 ..... NASA-CASE-MFS-22749-1
US-PATENT-APPL-SN-483857
US-PATENT-CLASS-136-114
US-PATENT-CLASS-136-162
US-PATENT-CLASS-136-182
US-PATENT-CLASS-136-90
US-PATENT-3,912,541

N76-14602* c 44 ..... NASA-CASE-NPO-13497-1
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US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-211
US-PATENT-3,915,148

N76-14757* c 52 ..... NASA-CASE-MSC-14180-1
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US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
US-PATENT-3,910,257

N76-14804* c 54 ..... NASA-CASE-MSC-14640-1
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US-PATENT-CLASS-73-421R
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US-PATENT-CLASS-340-147R
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N76-14931* c 75 ..... NASA-CASE-MFS-22287-1
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US-PATENT-CLASS-89-8
US-PATENT-3,916,761

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US-PATENT-CLASS-350-293
US-PATENT-CLASS-427-162
US-PATENT-CLASS-427-250
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US-PATENT-CLASS-260-32.8N
US-PATENT-CLASS-260-346.3
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-571
US-PATENT-CLASS-260-78TF
US-PATENT-3,925,312
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US-PATENT-CLASS-427-196
US-PATENT-CLASS-427-426
US-PATENT-CLASS-428-303
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US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-876
US-PATENT-3,927,408
N76-15330* c 32 ..... NASA-CASE-LAR-11112-1
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US-PATENT-CLASS-343-786
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N76-15373* c 33 ..... NASA-CASE-LEW-11938-1
US-PATENT-APPL-SN-544611
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US-PATENT-CLASS-317-261
US-PATENT-3,924,164
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US-PATENT-APPL-SN-475338
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US-PATENT-CLASS-250-287
US-PATENT-CLASS-250-423
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US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-489
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N76-15434* c 35 ..... NASA-CASE-LEW-11072-2
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US-PATENT-CLASS-136-212
US-PATENT-CLASS-136-225
US-PATENT-3,925,104
N76-15435* c 35 ..... NASA-CASE-NPO-13506-1
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US-PATENT-CLASS-343-909
US-PATENT-3,924,239
N76-15436* c 35 ..... NASA-CASE-GSC-11895-1
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US-PATENT-CLASS-331-3
US-PATENT-CLASS-331-94
US-PATENT-3,924,200
N76-15457* c 37 ..... NASA-CASE-MFS-22707-1
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US-PATENT-CLASS-214-1R
US-PATENT-CLASS-74-384
US-PATENT-CLASS-74-665B
US-PATENT-3,922,930
N76-15460* c 37 ..... NASA-CASE-MFS-22022-1
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US-PATENT-CLASS-214-ICM
US-PATENT-3,923,166
N76-15461* c 37 ..... NASA-CASE-LEW-11076-4
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US-PATENT-APPL-SN-346483
US-PATENT-APPL-SN-445178
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US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-72
US-PATENT-CLASS-308-73
US-PATENT-CLASS-308-9
US-PATENT-3,926,482
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US-PATENT-CLASS-250-500
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US-PATENT-CLASS-260-900
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US-PATENT-APPL-SN-464720
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US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-321
US-PATENT-3,924,068
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US-PATENT-CLASS-328-134
US-PATENT-3,924,183
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US-PATENT-CLASS-174-148
US-PATENT-CLASS-339-143C
US-PATENT-CLASS-339-198R
US-PATENT-CLASS-339-242
US-PATENT-CLASS-339-275R
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US-PATENT-CLASS-324-43R
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N76-16391* c 35 ..... NASA-CASE-NPO-10166-2
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US-PATENT-APPL-SN-668116
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US-PATENT-CLASS-360-101
US-PATENT-CLASS-360-35
US-PATENT-CLASS-360-9
US-PATENT-3,924,267
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US-PATENT-CLASS-294-19R
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US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-423
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US-PATENT-CLASS-136-210
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US-PATENT-CLASS-310-4
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US-PATENT-CLASS-244-172
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US-PATENT-APPL-SN-419319
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US-PATENT-CLASS-165-106
US-PATENT-CLASS-237-60
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-135R
US-PATENT-CLASS-417-209
US-PATENT-3,929,305
N76-17656* c 45 ..... NASA-CASE-LAR-11675-1
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US-PATENT-CLASS-178-DIG.1
US-PATENT-CLASS-178-DIG.8
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-250-373
US-PATENT-CLASS-340-237S
US-PATENT-CLASS-356-207
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US-PATENT-APPL-SN-500982
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US-PATENT-CLASS-89-8
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US-PATENT-APPL-SN-488616
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US-PATENT-CLASS-239-265.11
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US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-253R
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-23-255R
US-PATENT-CLASS-235-151.13
US-PATENT-CLASS-73-23.1
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US-PATENT-CLASS-324-34R
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US-PATENT-APPL-SN-500979
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-912
US-PATENT-CLASS-343-915
US-PATENT-3,938,162
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US-PATENT-CLASS-340-347AD
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US-PATENT-CLASS-360-51
US-PATENT-3,938,182
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US-PATENT-CLASS-60-316
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US-PATENT-CLASS-250-335
US-PATENT-3,940,621
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US-PATENT-APPL-SN-483858
US-PATENT-CLASS-73-103
US-PATENT-CLASS-73-95
US-PATENT-3,938,373
N76-18401* c 35 ..... NASA-CASE-NPO-13396-1
US-PATENT-APPL-SN-563283
US-PATENT-CLASS-55-261
US-PATENT-CLASS-73-28
US-PATENT-CLASS-73-421.5R
US-PATENT-3,938,367
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US-PATENT-CLASS-23-254EF
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N76-18427* c 36 ..... NASA-CASE-NPO-11945-1
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US-PATENT-CLASS-350-150
US-PATENT-CLASS-350-160
US-PATENT-CLASS-423-352
US-PATENT-CLASS-423-644
US-PATENT-3,806,834

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US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-350-96WG
US-PATENT-3,939,439

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US-PATENT-CLASS-72-453
US-PATENT-CLASS-73-399
US-PATENT-3,937,055

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US-PATENT-CLASS-228-206
US-PATENT-CLASS-228-214
US-PATENT-CLASS-228-238
US-PATENT-3,937,387

N76-18456* c 37 ..... NASA-CASE-LAR-11224-1
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US-PATENT-CLASS-134-37
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US-PATENT-CLASS-209-250
US-PATENT-CLASS-209-300
US-PATENT-CLASS-209-305
US-PATENT-3,937,661

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US-PATENT-CLASS-123-119E
US-PATENT-CLASS-123-120
US-PATENT-CLASS-123-121
US-PATENT-CLASS-123-89A
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US-PATENT-CLASS-136-86S
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N76-18642* c 44 ..... NASA-CASE-NPO-13464-1
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US-PATENT-CLASS-48-63
US-PATENT-CLASS-48-75
US-PATENT-CLASS-48-95
US-PATENT-3,920,416

N76-18643* c 44 ..... NASA-CASE-NPO-11961-1
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US-PATENT-CLASS-136-6LF
US-PATENT-CLASS-320-21
US-PATENT-CLASS-320-22
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US-PATENT-APPL-SN-482953
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US-PATENT-CLASS-250-199
US-PATENT-3,937,945

N76-19338* c 33 ..... NASA-CASE-NPO-13519-1
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US-PATENT-CLASS-33-155R
US-PATENT-CLASS-33-174D
US-PATENT-CLASS-73-88.5SD
US-PATENT-3,937,212

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US-PATENT-CLASS-215-247
US-PATENT-CLASS-324-30B
US-PATENT-3,938,035

N76-19436* c 37 ..... NASA-CASE-MFS-20607-1
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US-PATENT-CLASS-259-4AC
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US-PATENT-CLASS-244-163
US-PATENT-CLASS-29-432
US-PATENT-CLASS-29-433
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-705
US-PATENT-CLASS-52-758F
US-PATENT-3,936,927

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US-PATENT-CLASS-128-26
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US-PATENT-CLASS-356-162
US-PATENT-CLASS-356-167
US-PATENT-CLASS-356-71
US-PATENT-3,930,735

N76-19935* c 74 ..... NASA-CASE-MFS-21672-1
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US-PATENT-CLASS-356-124
US-PATENT-3,938,892

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US-PATENT-CLASS-75-178R
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NASA-CASE-NPO-13436-1
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US-PATENT-3,942,398

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US-PATENT-CLASS-324-158R
US-PATENT-CLASS-324-158T
US-PATENT-CLASS-324-60C
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US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-112TC
US-PATENT-3,949,400

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US-PATENT-3,948,470

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US-PATENT-3,947,933

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US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-786
US-PATENT-3,949,404

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US-PATENT-CLASS-325-42
US-PATENT-CLASS-333-18
US-PATENT-3,949,206

N76-21390* c 33 ..... NASA-CASE-ARC-10711-2
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US-PATENT-APPL-SN-596788
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US-PATENT-CLASS-73-398C
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US-PATENT-CLASS-156-382
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US-PATENT-CLASS-248-362
US-PATENT-CLASS-248-363
US-PATENT-CLASS-269-21
US-PATENT-CLASS-33-1G
US-PATENT-CLASS-33-174B
US-PATENT-3,945,879

N76-21742* c 45 ..... NASA-CASE-NPO-13474-1
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US-PATENT-CLASS-250-574
US-PATENT-CLASS-356-37
US-PATENT-3,945,801

N76-21914* c 60 ..... NASA-CASE-NPO-13139-1
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US-PATENT-CLASS-340-172.5
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N76-22154* c 02 ..... NASA-CASE-LAR-10585-1
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US-PATENT-CLASS-244-40R
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N76-22245* c 17 ..... NASA-CASE-GSC-11868-1
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US-PATENT-CLASS-328-155
US-PATENT-CLASS-340-147SY
US-PATENT-CLASS-340-207P
US-PATENT-3,953,674

N76-22284* c 19 ..... NASA-CASE-MFS-22905-1
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US-PATENT-CLASS-188-1B
US-PATENT-CLASS-248-22
US-PATENT-CLASS-248-358R
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US-PATENT-CLASS-250-344
US-PATENT-CLASS-250-432R
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US-PATENT-CLASS-264-66
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US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-538
US-PATENT-CLASS-428-920
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US-PATENT-CLASS-324-71CP
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US-PATENT-CLASS-244-158
US-PATENT-CLASS-244-161
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US-PATENT-CLASS-277-41
US-PATENT-CLASS-277-74
US-PATENT-CLASS-277-93R
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US-PATENT-3,951,129

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US-PATENT-CLASS-428-538
US-PATENT-CLASS-428-920
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US-PATENT-APPL-SN-561020
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US-PATENT-CLASS-165-133
US-PATENT-3,957,030
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US-PATENT-CLASS-340-347P
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US-PATENT-CLASS-178-7.89
US-PATENT-CLASS-35-12N
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US-PATENT-CLASS-350-1
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US-PATENT-CLASS-260-33.8F
US-PATENT-CLASS-260-45.7
US-PATENT-CLASS-260-92.1
US-PATENT-CLASS-526-1
US-PATENT-CLASS-526-255
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US-PATENT-CLASS-73-204
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US-PATENT-CLASS-128-2.05V
US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-2.1Z
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US-PATENT-CLASS-264-267
US-PATENT-CLASS-428-117
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US-PATENT-CLASS-126-271
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US-PATENT-CLASS-350-299
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NASA-CASE-MSC-14735-1
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US-PATENT-CLASS-137-DIG.9
US-PATENT-CLASS-137-110
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US-PATENT-CLASS-156-612
US-PATENT-CLASS-156-613
US-PATENT-CLASS-252-62.3
US-PATENT-CLASS-423-345
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US-PATENT-APPL-SN-592159
US-PATENT-CLASS-73-557
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US-PATENT-APPL-SN-340863
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US-PATENT-CLASS-176-16
US-PATENT-CLASS-423-249
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US-PATENT-CLASS-343-854
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US-PATENT-CLASS-55-523
US-PATENT-CLASS-55-526
US-PATENT-CLASS-75-225
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US-PATENT-APPL-SN-545284
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US-PATENT-CLASS-73-189
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US-PATENT-CLASS-219-92
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US-PATENT-APPL-SN-496779
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US-PATENT-CLASS-340-206
US-PATENT-CLASS-73-493
US-PATENT-CLASS-73-517R
US-PATENT-3,972,038
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US-PATENT-APPL-SN-247434
US-PATENT-APPL-SN-380046
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US-PATENT-CLASS-176-14
US-PATENT-CLASS-176-16
US-PATENT-CLASS-250-400
US-PATENT-CLASS-250-429
US-PATENT-CLASS-250-492R
US-PATENT-3,971,697
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US-PATENT-APPL-SN-559845
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US-PATENT-CLASS-250-353
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US-PATENT-CLASS-235-78M
US-PATENT-CLASS-235-88M
US-PATENT-3,971,915
N76-29575* c 36 ..... NASA-CASE-NPO-13346-1
US-PATENT-APPL-SN-533556
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5C
US-PATENT-3,972,008
N76-29588* c 37 ..... NASA-CASE-LEW-11949-1
US-PATENT-APPL-SN-590182
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US-PATENT-CLASS-308-163
US-PATENT-CLASS-308-170
US-PATENT-3,971,602
N76-29590* c 37 ..... NASA-CASE-NPO-13613-1
US-PATENT-APPL-SN-574208
US-PATENT-CLASS-62-6
US-PATENT-3,971,230
N76-29699* c 44 ..... NASA-CASE-HQN-10862-1
US-PATENT-APPL-SN-604374
US-PATENT-CLASS-136-143
US-PATENT-CLASS-136-30
US-PATENT-3,972,727
N76-29700* c 44 ..... NASA-CASE-NPO-13342-2
US-PATENT-APPL-SN-390049
US-PATENT-APPL-SN-548559
US-PATENT-CLASS-123-1A
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-215
US-PATENT-CLASS-48-95
US-PATENT-3,955,941
N76-29701* c 44 ..... NASA-CASE-NPO-13567-1
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US-PATENT-CLASS-417-207
US-PATENT-CLASS-417-209
US-PATENT-CLASS-417-379
US-PATENT-CLASS-60-517
US-PATENT-CLASS-62-6
US-PATENT-3,972,651
N76-29704* c 44 ..... NASA-CASE-NPO-13464-2
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US-PATENT-APPL-SN-553687
US-PATENT-CLASS-252-373
US-PATENT-CLASS-42-215
US-PATENT-CLASS-423-650
US-PATENT-CLASS-431-163
US-PATENT-CLASS-431-210
US-PATENT-CLASS-431-4
US-PATENT-CLASS-48-197R
US-PATENT-3,971,847
N76-29891* c 51 ..... NASA-CASE-GSC-11917-2
US-PATENT-APPL-SN-475337
US-PATENT-APPL-SN-555641
US-PATENT-CLASS-195-103.5R
US-PATENT-3,971,703
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US-PATENT-APPL-SN-301418
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
US-PATENT-CLASS-128-2P
US-PATENT-3,971,362
N76-29895* c 52 ..... NASA-CASE-NPO-13644-1
US-PATENT-APPL-SN-574218
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US-PATENT-CLASS-128-2S

US-PATENT-CLASS-338-6
US-PATENT-3,971,363

N76-29896* c 52 ..... NASA-CASE-NPO-13643-1
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US-PATENT-CLASS-128-2.06E
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-128-418
US-PATENT-CLASS-128-419P
US-PATENT-CLASS-73-398AR
US-PATENT-3,971,364

N76-30053* c 74 ..... NASA-CASE-GSC-11782-1
US-PATENT-APPL-SN-463925
US-PATENT-CLASS-250-199
US-PATENT-3,971,930

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US-PATENT-APPL-SN-448320
US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-425.2
US-PATENT-CLASS-73-432R
US-PATENT-3,971,256

N76-30793* c 52 ..... US-PATENT-APPL-SN-452768
US-PATENT-CLASS-351-23
US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
US-PATENT-RE-28,921

N76-31365* c 31 ..... NASA-CASE-ARC-10445-1
US-PATENT-APPL-SN-491418
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US-PATENT-CLASS-313-306
US-PATENT-CLASS-313-309
US-PATENT-CLASS-313-338
US-PATENT-3,978,364

N76-31372* c 32 ..... NASA-CASE-NPO-13465-1
US-PATENT-APPL-SN-531575
US-PATENT-CLASS-179-1SA
US-PATENT-3,978,287

N76-31409* c 33 ..... NASA-CASE-NPO-12134-1
US-PATENT-APPL-SN-536785
US-PATENT-CLASS-313-94
US-PATENT-CLASS-357-63
US-PATENT-3,978,360

N76-31489* c 35 ..... NASA-CASE-GSC-11893-1
US-PATENT-APPL-SN-585420
US-PATENT-CLASS-73-9
US-PATENT-3,977,231

N76-31490* c 35 ..... NASA-CASE-NPO-13604-1
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US-PATENT-CLASS-356-114
US-PATENT-CLASS-356-209
US-PATENT-CLASS-356-244
US-PATENT-3,977,787

N76-31512* c 36 ..... NASA-CASE-NPO-13490-1
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US-PATENT-CLASS-331-94
US-PATENT-3,978,417

N76-31524* c 37 ..... NASA-CASE-NPO-13535-1
US-PATENT-APPL-SN-563050
US-PATENT-CLASS-264-129
US-PATENT-CLASS-264-161
US-PATENT-CLASS-264-219
US-PATENT-CLASS-264-304
US-PATENT-CLASS-264-305
US-PATENT-CLASS-264-308
US-PATENT-CLASS-264-310
US-PATENT-CLASS-264-318
US-PATENT-CLASS-264-334
US-PATENT-CLASS-427-230
US-PATENT-3,978,187

N76-31562* c 39 ..... NASA-CASE-MSC-19372-1
US-PATENT-APPL-SN-517995
US-PATENT-CLASS-182-178
US-PATENT-CLASS-29-467
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-236
US-PATENT-CLASS-52-637
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-651
US-PATENT-CLASS-52-726
US-PATENT-CLASS-52-745
US-PATENT-CLASS-52-749
US-PATENT-3,977,147

N76-31666* c 44 ..... NASA-CASE-NPO-13087-2
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US-PATENT-APPL-SN-462341
US-PATENT-CLASS-136-206
US-PATENT-CLASS-136-89
US-PATENT-3,966,499

N76-31667* c 44 ..... NASA-CASE-MFS-23167-1
US-PATENT-APPL-SN-602618
US-PATENT-CLASS-165-10
US-PATENT-CLASS-60-659
US-PATENT-3,977,197

N76-31714* c 45 ..... NASA-CASE-LAR-11405-1
US-PATENT-APPL-SN-537480
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-3,977,831

N76-31946* c 62 ..... NASA-CASE-GSC-12115-1
US-PATENT-APPL-SN-262596
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US-PATENT-3,976,997

N76-31998* c 74 ..... NASA-CASE-MSC-12640-1
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US-PATENT-CLASS-350-162SF
US-PATENT-3,977,771

N76-32140* c 03 ..... NASA-CASE-MFS-16609-3
US-PATENT-APPL-SN-307714
US-PATENT-APPL-SN-511894
US-PATENT-APPL-SN-82279
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US-PATENT-CLASS-325-115
US-PATENT-CLASS-325-186
US-PATENT-CLASS-343-705
US-PATENT-3,978,410

N76-32315* c 27 ..... NASA-CASE-ARC-10592-2
US-PATENT-APPL-SN-414043
US-PATENT-CLASS-260-240G
US-PATENT-CLASS-260-566B
US-PATENT-3,965,096

N76-32457* c 33 ..... NASA-CASE-NPO-13553-1
US-PATENT-APPL-SN-616333
US-PATENT-CLASS-343-882
US-PATENT-CLASS-343-915
US-PATENT-3,978,490

N76-33835*# c 52 ..... NASA-CASE-ARC-10994-1
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N77-10001* c 02 ..... NASA-CASE-LAR-11645-1
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US-PATENT-CLASS-244-113
US-PATENT-CLASS-244-130
US-PATENT-3,984,070

N77-10071* c 09 ..... NASA-CASE-NPO-13528-1
US-PATENT-APPL-SN-521620
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US-PATENT-3,983,749

N77-10112* c 15 ..... NASA-CASE-MFS-20855-1
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US-PATENT-CLASS-244-1SD
US-PATENT-3,744,739

N77-10113* c 15 ..... NASA-CASE-MFS-22787-1
US-PATENT-APPL-SN-511346
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US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-3,984,072

N77-10148* c 20 ..... NASA-CASE-LEW-12082-1
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US-PATENT-CLASS-313-231.4
US-PATENT-CLASS-313-240
US-PATENT-CLASS-313-361
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-60-202
US-PATENT-3,983,695

N77-10213* c 28 ..... NASA-CASE-LAR-11995-1
US-PATENT-APPL-SN-238826
US-PATENT-CLASS-102-99
US-PATENT-CLASS-264-3R
US-PATENT-CLASS-86-1R
US-PATENT-3,983,780

N77-10229* c 31 ..... NASA-CASE-NPO-13459-1
US-PATENT-APPL-SN-598967
US-PATENT-CLASS-62-217
US-PATENT-CLASS-62-514JT
US-PATENT-3,983,714

N77-10392* c 32 ..... NASA-CASE-LAR-11827-1
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US-PATENT-APPL-SN-561764
US-PATENT-CLASS-178-88
US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-156
US-PATENT-CLASS-325-323
US-PATENT-CLASS-325-349
US-PATENT-CLASS-325-476
US-PATENT-3,984,634

N77-10428* c 33 ..... NASA-CASE-NPO-13512-1
US-PATENT-APPL-SN-533734
US-PATENT-CLASS-321-19
US-PATENT-CLASS-321-2
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-323-17
US-PATENT-CLASS-323-22T
US-PATENT-CLASS-323-23
US-PATENT-3,984,799

N77-10429* c 33 ..... NASA-CASE-GSC-11963-1
US-PATENT-APPL-SN-595197
US-PATENT-CLASS-244-1A
US-PATENT-CLASS-244-42CG
US-PATENT-CLASS-317-2D
US-PATENT-CLASS-324-72
US-PATENT-3,984,730

N77-10463* c 34 ..... NASA-CASE-MFS-22991-1
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US-PATENT-CLASS-165-164
US-PATENT-CLASS-165-170
US-PATENT-3,983,933

N77-10492* c 35 ..... NASA-CASE-NPO-13479-1
US-PATENT-APPL-SN-500981
US-PATENT-CLASS-250-290
US-PATENT-CLASS-250-291
US-PATENT-3,984,681

N77-10493* c 35 ..... NASA-CASE-MFS-23178-1
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US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-106R
US-PATENT-3,984,686

N77-10584* c 43 ..... NASA-CASE-MSC-14472-1
US-PATENT-APPL-SN-502138
US-PATENT-CLASS-235-181
US-PATENT-CLASS-340-146.3P
US-PATENT-CLASS-340-146.3Q
US-PATENT-3,984,671

N77-10635* c 44 ..... NASA-CASE-MFS-22458-1
US-PATENT-APPL-SN-571458
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-572
US-PATENT-3,984,256

N77-10636* c 44 ..... NASA-CASE-NPO-13560-1
NASA-CASE-NPO-13561-1
US-PATENT-APPL-SN-487156
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-252-373
US-PATENT-CLASS-423-650
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US-PATENT-CLASS-431-116
US-PATENT-CLASS-431-162
US-PATENT-CLASS-431-170
US-PATENT-CLASS-431-41
US-PATENT-CLASS-48-116
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-197R
US-PATENT-CLASS-48-212
US-PATENT-CLASS-48-61
US-PATENT-3,982,910

N77-10753* c 47 ..... NASA-CASE-MFS-23362-1
US-PATENT-APPL-SN-637268
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-106R
US-PATENT-3,984,685

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US-PATENT-CLASS-73-343R
US-PATENT-3,983,753

N77-10899* c 74 ..... NASA-CASE-MSC-19442-1
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US-PATENT-CLASS-356-239
US-PATENT-3,985,454

N77-11397* c 37 ..... NASA-CASE-LAR-11549-1
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US-PATENT-CLASS-219-92
US-PATENT-3,988,561

N77-12239* c 32 ..... NASA-CASE-MSC-12506-1
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US-PATENT-3,988,729

N77-12240* c 32 ..... NASA-CASE-NPO-13543-1
NASA-CASE-NPO-13545-1
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US-PATENT-CLASS-325-41
US-PATENT-CLASS-340-146.1AL
US-PATENT-CLASS-340-146.1AQ
US-PATENT-CLASS-340-146.1AV
US-PATENT-3,988,677

N77-12402* c 37 ..... NASA-CASE-MFS-23062-1
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US-PATENT-CLASS-60-527
US-PATENT-3,987,630

N77-12721* c 60 ..... NASA-CASE-NPO-13428-1
NASA-CASE-NPO-13447-1
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US-PATENT-CLASS-328-111
US-PATENT-CLASS-340-172.5
US-PATENT-3,988,716

N77-13217* c 27 ..... NASA-CASE-NPO-13666-1
US-PATENT-APPL-SN-633877
US-PATENT-CLASS-29-182.5

US-PATENT-3,990,860
N77-13315* c 33 ..... NASA-CASE-NPO-11515-1
US-PATENT-APPL-SN-139596
US-PATENT-CLASS-307-233
US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-133
US-PATENT-3,750,035
N77-13418* c 37 ..... NASA-CASE-ARC-10905-1
US-PATENT-APPL-SN-618594
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US-PATENT-CLASS-219-304
US-PATENT-CLASS-239-171
US-PATENT-CLASS-252-359A
US-PATENT-3,990,987
N77-14025* c 07 ..... NASA-CASE-LEW-12419-1
US-PATENT-APPL-SN-579375
US-PATENT-CLASS-416-153
US-PATENT-CLASS-416-160
US-PATENT-CLASS-416-162
US-PATENT-CLASS-416-165
US-PATENT-CLASS-416-167
US-PATENT-CLASS-60-226R
US-PATENT-3,994,128
N77-14292* c 32 ..... NASA-CASE-LAR-11607-1
US-PATENT-APPL-SN-617895
US-PATENT-CLASS-325-145
US-PATENT-CLASS-332-22
US-PATENT-CLASS-332-23R
US-PATENT-3,996,532
N77-14333* c 33 ..... NASA-CASE-GSC-11789-1
US-PATENT-APPL-SN-538982
US-PATENT-CLASS-317-31
US-PATENT-CLASS-321-13
US-PATENT-3,996,506
N77-14334* c 33 ..... NASA-CASE-GSC-12018-1
US-PATENT-APPL-SN-635531
US-PATENT-CLASS-329-122
US-PATENT-CLASS-329-124
US-PATENT-CLASS-331-23
US-PATENT-CLASS-331-36C
US-PATENT-CLASS-332-30V
US-PATENT-3,997,848
N77-14335* c 33 ..... NASA-CASE-MFS-22560-1
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US-PATENT-CLASS-330-14
US-PATENT-CLASS-330-28
US-PATENT-CLASS-330-59
US-PATENT-3,996,462
N77-14406* c 35 ..... NASA-CASE-NPO-13663-1
US-PATENT-APPL-SN-634205
US-PATENT-CLASS-250-289
US-PATENT-CLASS-250-298
US-PATENT-3,996,464
N77-14407* c 35 ..... NASA-CASE-LAR-11648-1
US-PATENT-APPL-SN-645571
US-PATENT-CLASS-73-133R
US-PATENT-3,995,476
N77-14408* c 35 ..... NASA-CASE-ARC-10448-3
US-PATENT-APPL-SN-221670
US-PATENT-APPL-SN-318848
US-PATENT-CLASS-250-396
US-PATENT-3,996,468
N77-14409* c 35 ..... NASA-CASE-NPO-13540-1
US-PATENT-APPL-SN-526450
US-PATENT-CLASS-136-232
US-PATENT-CLASS-136-233
US-PATENT-3,996,070
N77-14411* c 35 ..... NASA-CASE-NPO-13683-1
US-PATENT-APPL-SN-599284
US-PATENT-CLASS-250-343
US-PATENT-CLASS-356-201
US-PATENT-CLASS-356-204
US-PATENT-CLASS-356-97
US-PATENT-3,995,960
N77-14477* c 37 ..... NASA-CASE-FRC-10081-1
US-PATENT-APPL-SN-598504
US-PATENT-CLASS-280-432
US-PATENT-3,995,877
N77-14478* c 37 ..... NASA-CASE-LAR-11658-1
US-PATENT-APPL-SN-625759
US-PATENT-CLASS-83-451
US-PATENT-CLASS-83-467R
US-PATENT-3,995,522
N77-14479* c 37 ..... NASA-CASE-GSC-11960-1
US-PATENT-APPL-SN-629456
US-PATENT-CLASS-242-187
US-PATENT-CLASS-242-193
US-PATENT-CLASS-242-204
US-PATENT-CLASS-242-210
US-PATENT-CLASS-242-57
US-PATENT-3,995,789
N77-14580* c 44 ..... NASA-CASE-LEW-11496-1
US-PATENT-APPL-SN-645508
US-PATENT-CLASS-136-89
US-PATENT-CLASS-204-192
US-PATENT-3,996,067
N77-14581* c 44 ..... NASA-CASE-LEW-12220-1
US-PATENT-APPL-SN-606891
US-PATENT-CLASS-320-2
US-PATENT-CLASS-429-23
US-PATENT-CLASS-429-34
US-PATENT-3,996,064
N77-14735* c 52 ..... NASA-CASE-MFS-23225-1
US-PATENT-APPL-SN-612965
US-PATENT-CLASS-3-1.2
US-PATENT-CLASS-3-14
US-PATENT-3,995,324
N77-14736* c 52 ..... NASA-CASE-ARC-11007-1
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US-PATENT-CLASS-128-379
US-PATENT-CLASS-128-400
US-PATENT-CLASS-128-402
US-PATENT-3,995,621
N77-14737* c 52 ..... NASA-CASE-MSC-14276-1
US-PATENT-APPL-SN-557430
US-PATENT-CLASS-250-363R
US-PATENT-CLASS-250-444
US-PATENT-CLASS-250-498
US-PATENT-3,996,471
N77-14738* c 52 ..... NASA-CASE-KSC-10849-1
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US-PATENT-CLASS-128-418
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-339-252R
US-PATENT-3,995,644
N77-14751* c 60 ..... NASA-CASE-GSC-11839-1
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US-PATENT-CLASS-235-152
US-PATENT-CLASS-250-227
US-PATENT-CLASS-340-172.5
US-PATENT-CLASS-350-96R
US-PATENT-3,996,455
N77-17029* c 05 ..... NASA-CASE-ARC-10807-1
US-PATENT-APPL-SN-513612
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US-PATENT-CLASS-416-138
US-PATENT-CLASS-416-141
US-PATENT-3,999,886
N77-17059* c 07 ..... NASA-CASE-LEW-12760-1
US-PATENT-APPL-SN-569925
US-PATENT-CLASS-60-226A
US-PATENT-CLASS-60-228
US-PATENT-4,005,574
N77-17143* c 20 ..... NASA-CASE-XLA-01349
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US-PATENT-APPL-SN-54552
US-PATENT-CLASS-102-49.3
US-PATENT-CLASS-264-3R
US-PATENT-CLASS-86-1R
US-PATENT-CLASS-86-20R
US-PATENT-4,000,682
N77-17161* c 23 ..... NASA-CASE-MSC-14428-1
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US-PATENT-CLASS-23-230B
US-PATENT-CLASS-23-230M
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-231
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-55-197
US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-74
US-PATENT-CLASS-73-23.1
US-PATENT-CLASS-73-61.1C
US-PATENT-4,003,257
N77-17351* c 33 ..... NASA-CASE-MFS-23181-1
US-PATENT-APPL-SN-566495
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US-PATENT-CLASS-331-177V
US-PATENT-CLASS-332-18
US-PATENT-CLASS-332-30V
US-PATENT-4,003,004
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US-PATENT-CLASS-307-230
US-PATENT-CLASS-328-161
US-PATENT-4,001,602
N77-17426* c 35 ..... NASA-CASE-MFS-22671-2
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US-PATENT-APPL-SN-561956
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US-PATENT-CLASS-360-31
US-PATENT-4,003,084
N77-17464* c 37 ..... NASA-CASE-GSC-11978-1
US-PATENT-APPL-SN-593142
US-PATENT-CLASS-308-10
US-PATENT-4,000,929
N77-17495* c 38 ..... NASA-CASE-GSC-11902-1
US-PATENT-APPL-SN-565289
US-PATENT-CLASS-235-92CA
US-PATENT-CLASS-235-92CT
US-PATENT-CLASS-235-92DN
US-PATENT-CLASS-235-92R
US-PATENT-4,001,552
N77-18154* c 07 ..... NASA-CASE-ARC-10761-1
US-PATENT-APPL-SN-612899
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US-PATENT-CLASS-244-53B
US-PATENT-4,007,891
N77-18307* c 32 ..... NASA-CASE-MFS-23303-1
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US-PATENT-CLASS-333-75
US-PATENT-CLASS-333-76
US-PATENT-CLASS-333-82B
US-PATENT-4,007,434
N77-18382* c 34 ..... NASA-CASE-LAR-10805-2
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US-PATENT-APPL-SN-578240
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US-PATENT-CLASS-427-160
US-PATENT-CLASS-427-322
US-PATENT-CLASS-428-35
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-461
US-PATENT-CLASS-428-474
US-PATENT-4,008,348
N77-18417* c 35 ..... NASA-CASE-ARC-10898-1
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US-PATENT-CLASS-73-432SD
US-PATENT-CLASS-73-71.6
US-PATENT-4,007,623
N77-18891* c 73 ..... NASA-CASE-NPO-13121-1
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US-PATENT-CLASS-313-311
US-PATENT-CLASS-346R
US-PATENT-4,008,407
N77-18893* c 74 ..... NASA-CASE-MSC-14683-1
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US-PATENT-CLASS-358-44
US-PATENT-4,004,292
N77-19056* c 04 ..... NASA-CASE-LAR-11387-2
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US-PATENT-APPL-SN-623156
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US-PATENT-CLASS-73-178R
US-PATENT-4,006,631
N77-19076* c 09 ..... NASA-CASE-ARC-10979-1
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US-PATENT-CLASS-244-63
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N77-19170* c 24 ..... NASA-CASE-LEW-12550-1
US-PATENT-APPL-SN-596905
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US-PATENT-CLASS-416-230
US-PATENT-4,006,999
N77-19171* c 24 ..... NASA-CASE-LEW-12619-1
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US-PATENT-CLASS-204-40
US-PATENT-CLASS-204-9
US-PATENT-CLASS-29-527.2
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US-PATENT-CLASS-62-121
US-PATENT-CLASS-62-269
US-PATENT-CLASS-62-315
US-PATENT-4,007,601
N77-19385* c 35 ..... NASA-CASE-MSC-14653-1
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US-PATENT-CLASS-177-208
US-PATENT-CLASS-73-432R
US-PATENT-3,988,933
N77-19416* c 36 ..... NASA-CASE-XNP-04167-3
US-PATENT-APPL-SN-170544
US-PATENT-APPL-SN-479357
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5PE
US-PATENT-4,007,430
N77-19457* c 37 ..... NASA-CASE-MFS-15218-1
US-PATENT-APPL-SN-387094
US-PATENT-CLASS-197-188
US-PATENT-CLASS-197-190
US-PATENT-3,989,136
N77-19458* c 37 ..... NASA-CASE-GSC-11883-1
NASA-CASE-GSC-11974-1
NASA-CASE-GSC-11975-1

US-PATENT-APPL-SN-596787
US-PATENT-CLASS-310-4A
US-PATENT-CLASS-337-334
US-PATENT-CLASS-340-224
US-PATENT-CLASS-60-527
US-PATENT-CLASS-75-122.7
US-PATENT-CLASS-75-170
US-PATENT-4,010,455

N77-19571* c 44 ..... NASA-CASE-LEW-11549-1
US-PATENT-APPL-SN-510677
US-PATENT-CLASS-136-89
US-PATENT-3,989,541

N77-19760* c 60 ..... NASA-CASE-ARC-10899-1
US-PATENT-APPL-SN-576774
US-PATENT-CLASS-178-69.5R
US-PATENT-CLASS-179-15BS
US-PATENT-CLASS-340-172.5
US-PATENT-3,990,049

N77-20162* c 20 ..... NASA-CASE-LEW-12048-1
US-PATENT-APPL-SN-665033
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US-PATENT-CLASS-313-231.3
US-PATENT-CLASS-313-360
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-315-111.6
US-PATENT-CLASS-60-202
US-PATENT-4,011,719

N77-20201* c 26 ..... NASA-CASE-LEW-12245-1
US-PATENT-APPL-SN-584094
US-PATENT-CLASS-148-12.7N
US-PATENT-CLASS-148-162
US-PATENT-CLASS-148-2
US-PATENT-CLASS-148-20.3
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,012,237

N77-20289* c 32 ..... NASA-CASE-NPO-13753-1
US-PATENT-APPL-SN-658449
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-6.BR
US-PATENT-CLASS-343-6.5R
US-PATENT-4,012,696

N77-20399* c 35 ..... NASA-CASE-ARC-10716-1
US-PATENT-APPL-SN-403695
US-PATENT-CLASS-235-150.2
US-PATENT-CLASS-235-150.25
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-4,012,018

N77-20400* c 35 ..... NASA-CASE-ARC-10911-1
US-PATENT-APPL-SN-610802
US-PATENT-CLASS-338-28
US-PATENT-CLASS-73-204
US-PATENT-4,011,756

N77-20401* c 35 ..... NASA-CASE-MFS-23267-1
US-PATENT-APPL-SN-653422
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-CLASS-250-203R
US-PATENT-4,011,854

N77-20882* c 74 ..... NASA-CASE-LAR-11782-1
US-PATENT-APPL-SN-608482
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US-PATENT-CLASS-350-174
US-PATENT-4,012,123

N77-21267* c 32 ..... NASA-CASE-LAR-11390-1
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US-PATENT-CLASS-343-18B
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5MM
US-PATENT-4,019,179

N77-21314* c 33 ..... NASA-CASE-NPO-10189-1
NASA-CASE-NPO-10781-1
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US-PATENT-CLASS-307-232
US-PATENT-CLASS-307-238
US-PATENT-CLASS-307-280
US-PATENT-CLASS-329-119
US-PATENT-CLASS-329-205
US-PATENT-CLASS-332-16
US-PATENT-CLASS-332-30
US-PATENT-CLASS-332-52
US-PATENT-3,582,828

N77-21315* c 33 ..... NASA-CASE-NPO-11510-1
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US-PATENT-APPL-SN-385059
US-PATENT-CLASS-313-161
US-PATENT-CLASS-313-184
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-32
US-PATENT-CLASS-315-344
US-PATENT-3,881,132

N77-21316* c 33 ..... NASA-CASE-NPO-10790-1
US-PATENT-APPL-SN-841278
US-PATENT-CLASS-313-175
US-PATENT-CLASS-313-180
US-PATENT-CLASS-313-184
US-PATENT-CLASS-315-108
US-PATENT-CLASS-315-110
US-PATENT-3,621,330

N77-21392* c 35 ..... NASA-CASE-NPO-10711-1
US-PATENT-APPL-SN-844315
US-PATENT-CLASS-179-100.2C
US-PATENT-3,697,705

N77-21393* c 35 ..... NASA-CASE-NPO-10619-1
US-PATENT-APPL-SN-757017
US-PATENT-CLASS-338-25
US-PATENT-3,555,483

N77-21844* c 54 ..... NASA-CASE-MFS-23074-1
US-PATENT-APPL-SN-623188
US-PATENT-CLASS-188-291
US-PATENT-CLASS-254-158
US-PATENT-4,018,423

N77-21941* c 74 ..... NASA-CASE-NPO-11429-1
US-PATENT-APPL-SN-95189
US-PATENT-CLASS-240-41.35R
US-PATENT-CLASS-240-41R
US-PATENT-CLASS-240-46.13
US-PATENT-CLASS-356-236
US-PATENT-3,711,701

N77-22386* c 33 ..... NASA-CASE-NPO-10870-1
NASA-CASE-NPO-11191-1
NASA-CASE-NPO-11403-1
US-PATENT-APPL-SN-108810
US-PATENT-CLASS-313-146
US-PATENT-CLASS-313-182
US-PATENT-CLASS-313-60
US-PATENT-3,736,453

N77-22449* c 35 ..... NASA-CASE-LAR-11825-1
US-PATENT-APPL-SN-632112
US-PATENT-CLASS-73-88R
US-PATENT-4,018,085

N77-22450* c 35 ..... NASA-CASE-MFS-23281-1
US-PATENT-APPL-SN-657995
US-PATENT-CLASS-73-15.6
US-PATENT-CLASS-73-95
US-PATENT-4,018,080

N77-22479* c 37 ..... NASA-CASE-NPO-10316-1
US-PATENT-APPL-SN-703107
US-PATENT-CLASS-60-53
US-PATENT-3,478,514

N77-22480* c 37 ..... NASA-CASE-NPO-13058-1
NASA-CASE-NPO-13096-1
US-PATENT-APPL-SN-403154
US-PATENT-CLASS-214-16.1CB
US-PATENT-3,896,955

N77-22482* c 37 ..... NASA-CASE-MSC-19536-1
US-PATENT-APPL-SN-658450
US-PATENT-CLASS-74-96
US-PATENT-4,018,092

N77-22606* c 44 ..... NASA-CASE-LEW-12364-1
US-PATENT-APPL-SN-707124
US-PATENT-CLASS-253-317
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-190
US-PATENT-4,018,971

N77-22607* c 44 ..... NASA-CASE-LAR-11361-1
US-PATENT-APPL-SN-669928
US-PATENT-CLASS-23-277R
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-55-158
US-PATENT-4,019,868

N77-22794* c 51 ..... NASA-CASE-GSC-12039-1
US-PATENT-APPL-SN-572991
US-PATENT-CLASS-195-103.5K
US-PATENT-CLASS-195-103.5R
US-PATENT-4,014,745

N77-22950* c 74 ..... NASA-CASE-ARC-10976-1
US-PATENT-APPL-SN-665032
US-PATENT-CLASS-356-171
US-PATENT-4,018,533

N77-22951* c 74 ..... NASA-CASE-NPO-13722-1
US-PATENT-APPL-SN-616472
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-172
US-PATENT-4,018,532

N77-23106* c 07 ..... NASA-CASE-LEW-12830-1
US-PATENT-APPL-SN-596641
US-PATENT-APPL-SN-655149
US-PATENT-CLASS-123-122E
US-PATENT-CLASS-123-41.33
US-PATENT-CLASS-137-101
US-PATENT-CLASS-415-180
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
US-PATENT-4,020,632

N77-23482* c 37 ..... NASA-CASE-LAR-11563-1
US-PATENT-APPL-SN-672815
US-PATENT-CLASS-29-DIG.35
US-PATENT-CLASS-29-447
US-PATENT-CLASS-403-273
US-PATENT-CLASS-53-9
US-PATENT-4,017,959

N77-23483* c 37 ..... NASA-CASE-MFS-23088-1
US-PATENT-APPL-SN-602617
US-PATENT-CLASS-213-81
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-244-161
US-PATENT-4,018,409

N77-24328* c 32 ..... NASA-CASE-ARC-10984-1
US-PATENT-APPL-SN-690815
US-PATENT-CLASS-358-133
US-PATENT-CLASS-358-138
US-PATENT-4,025,950

N77-24331* c 32 ..... NASA-CASE-MSC-14840-1
US-PATENT-APPL-SN-692414
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-346
US-PATENT-CLASS-329-104
US-PATENT-CLASS-329-122
US-PATENT-4,027,265

N77-24375* c 33 ..... NASA-CASE-MSC-12709-1
US-PATENT-APPL-SN-630583
US-PATENT-CLASS-307-225R
US-PATENT-CLASS-328-38
US-PATENT-CLASS-328-39
US-PATENT-CLASS-328-4-8
US-PATENT-CLASS-328-63
US-PATENT-4,025,866

N77-24423* c 34 ..... NASA-CASE-LAR-12045-1
US-PATENT-APPL-SN-682416
US-PATENT-CLASS-259/4R
US-PATENT-CLASS-261-DIG.75
US-PATENT-CLASS-261-123
US-PATENT-4,026,527

N77-24454* c 35 ..... NASA-CASE-ARC-10900-1
US-PATENT-APPL-SN-630579
US-PATENT-CLASS-338-229
US-PATENT-CLASS-338-28
US-PATENT-4,025,891

N77-24455* c 35 ..... NASA-CASE-GSC-12077-1
US-PATENT-APPL-SN-635519
US-PATENT-CLASS-65-108
US-PATENT-CLASS-65-59A
US-PATENT-CLASS-6554
US-PATENT-CLASS-6564
US-PATENT-4,025,327

N77-25499* c 36 ..... NASA-CASE-GSC-11571-1
US-PATENT-APPL-SN-646704
US-PATENT-CLASS-331-94.5S
US-PATENT-4,025,875

N77-25501* c 36 ..... NASA-CASE-ARC-10970-1
US-PATENT-APPL-SN-691046
US-PATENT-CLASS-250-574
US-PATENT-CLASS-350-100
US-PATENT-CLASS-350-102
US-PATENT-CLASS-356-28
US-PATENT-4,026,655

N77-25502* c 36 ..... NASA-CASE-NPO-13147-1
US-PATENT-APPL-SN-317310
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5P
US-PATENT-4,027,273

N77-25769* c 51 ..... NASA-CASE-LAR-10773-3
US-PATENT-APPL-SN-125235
US-PATENT-APPL-SN-314656
US-PATENT-APPL-SN-623238
US-PATENT-CLASS-195-1.8
US-PATENT-4,018,649

N77-25772* c 52 ..... NASA-CASE-KSC-11030-1
US-PATENT-APPL-SN-709849
US-PATENT-CLASS-128-1R
US-PATENT-CLASS-3-1
US-PATENT-CLASS-339,12R
US-PATENT-4,025,964

N77-26385* c 33 ..... NASA-CASE-LEW-11978-1
US-PATENT-APPL-SN-708658
US-PATENT-CLASS-204-32A
US-PATENT-CLASS-29-597
US-PATENT-CLASS-29-622
US-PATENT-CLASS-29-628
US-PATENT-CLASS-29-630E
US-PATENT-4,023,266

N77-26386* c 33 ..... NASA-CASE-GSC-11824-1
US-PATENT-APPL-SN-583486
US-PATENT-CLASS-318-138
US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-254

US-PATENT-4,027,212

N77-26387* c 33 ..... NASA-CASE-LAR-11389-1
US-PATENT-APPL-SN-229143
US-PATENT-APPL-SN-340862
US-PATENT-CLASS-310-111
US-PATENT-CLASS-310-168
US-PATENT-CLASS-322-96
US-PATENT-3,849,720

N77-26477* c 36 ..... NASA-CASE-NPO-13550-1
US-PATENT-APPL-SN-483301
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-283
US-PATENT-CLASS-250-423P
US-PATENT-4,031,389

N77-26919* c 71 ..... NASA-CASE-NPO-13673-1
US-PATENT-APPL-SN-613004
US-PATENT-CLASS-330-5.5
US-PATENT-CLASS-331-107A
US-PATENT-CLASS-333-72
US-PATENT-4,025,876

N77-26942* c 74 ..... NASA-CASE-GSC-12058-1
US-PATENT-APPL-SN-680938
US-PATENT-CLASS-250-199
US-PATENT-4,025,783

N77-27116* c 07 ..... NASA-CASE-LEW-12608-1
US-PATENT-APPL-SN-680067
US-PATENT-CLASS-416-220R
US-PATENT-CLASS-416-221
US-PATENT-4,033,705

N77-27131* c 09 ..... NASA-CASE-LAR-11883-1
US-PATENT-APPL-SN-662175
US-PATENT-CLASS-73-15R
US-PATENT-4,027,524

N77-27187* c 24 ..... NASA-CASE-MFS-22926-1
US-PATENT-APPL-SN-557565
US-PATENT-CLASS-164-60
US-PATENT-CLASS-75-135
US-PATENT-CLASS-75-139
US-PATENT-CLASS-75-65R
US-PATENT-4,029,500

N77-27188* c 24 ..... NASA-CASE-LEW-12118-1
US-PATENT-APPL-SN-616332
US-PATENT-CLASS-428-301
US-PATENT-CLASS-428-328
US-PATENT-CLASS-428-368
US-PATENT-CLASS-428-418
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-911
US-PATENT-4,029,838

N77-27345* c 34 ..... NASA-CASE-ARC-10974-1
US-PATENT-APPL-SN-667010
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-228
US-PATENT-4,028,939

N77-27366* c 35 ..... NASA-CASE-GSC-12059-1
US-PATENT-APPL-SN-680957
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5T
US-PATENT-CLASS-350-253
US-PATENT-4,030,047

N77-27367* c 35 ..... NASA-CASE-NPO-11103-1
US-PATENT-APPL-SN-3654
US-PATENT-CLASS-73-84
US-PATENT-3,623,359

N77-27368* c 35 ..... NASA-CASE-MSC-12327-1
US-PATENT-APPL-SN-19572
US-PATENT-CLASS-73-362AR
US-PATENT-3,613,454

N77-27400* c 37 ..... NASA-CASE-GSC-11063-1
US-PATENT-APPL-SN-41431
US-PATENT-CLASS-318-267
US-PATENT-CLASS-318-468
US-PATENT-CLASS-318-470
US-PATENT-CLASS-318-675
US-PATENT-3,628,113

N77-27677* c 51 ..... NASA-CASE-LAR-11649-1
US-PATENT-APPL-SN-626942
US-PATENT-CLASS-118-313
US-PATENT-CLASS-118-6
US-PATENT-CLASS-118-7
US-PATENT-CLASS-118-9
US-PATENT-CLASS-23-253A
US-PATENT-CLASS-23-259
US-PATENT-CLASS-23-292
US-PATENT-CLASS-424-3
US-PATENT-CLASS-427-4
US-PATENT-CLASS-8-3
US-PATENT-CLASS-8-94.11
US-PATENT-4,029,470

N77-28118* c 07 ..... NASA-CASE-LAR-11310-1
US-PATENT-APPL-SN-394898
US-PATENT-CLASS-415-145
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-263
US-PATENT-4,033,119

N77-28225* c 24 ..... NASA-CASE-MSC-12631-1
US-PATENT-APPL-SN-568541
US-PATENT-CLASS-156-229
US-PATENT-CLASS-244-123
US-PATENT-CLASS-428-141
US-PATENT-CLASS-428-161
US-PATENT-CLASS-428-425
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-458
US-PATENT-4,032,089

N77-28265* c 26 ..... NASA-CASE-LEW-11573-1
US-PATENT-APPL-SN-625733
US-PATENT-CLASS-228-190
US-PATENT-CLASS-228-194
US-PATENT-CLASS-228-232
US-PATENT-4,033,504

N77-28346* c 32 ..... NASA-CASE-GSC-12053-1
US-PATENT-APPL-SN-667930
US-PATENT-CLASS-250-199
US-PATENT-CLASS-250-238
US-PATENT-4,033,882

N77-28385* c 33 ..... NASA-CASE-LEW-12444-1
US-PATENT-APPL-SN-583485
US-PATENT-CLASS-123-148CB
US-PATENT-CLASS-123-148E
US-PATENT-CLASS-315-176
US-PATENT-4,033,316

N77-28486* c 37 ..... NASA-CASE-LEW-11158-1
US-PATENT-APPL-SN-663008
US-PATENT-CLASS-308-5R
US-PATENT-CLASS-308-73
US-PATENT-CLASS-308-9
US-PATENT-4,035,037

N77-28487* c 37 ..... NASA-CASE-MSC-14905-1
US-PATENT-APPL-SN-708795
US-PATENT-CLASS-128-DIG.12
US-PATENT-CLASS-128-214F
US-PATENT-CLASS-222-61
US-PATENT-CLASS-222-95
US-PATENT-4,033,479

N77-28511* c 39 ..... NASA-CASE-MFS-23299-1
US-PATENT-APPL-SN-700673
US-PATENT-CLASS-73-67.7
US-PATENT-CLASS-73-88R
US-PATENT-4,033,182

N77-28716* c 52 ..... NASA-CASE-LEW-12258-1
US-PATENT-APPL-SN-676433
US-PATENT-CLASS-128-1R
US-PATENT-CLASS-128-303R
US-PATENT-4,033,349

N77-28717* c 52 ..... NASA-CASE-MSC-14623-1
US-PATENT-APPL-SN-637269
US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-410
US-PATENT-4,033,334

N77-28932* c 74 ..... NASA-CASE-GSC-11989-1
US-PATENT-APPL-SN-645500
US-PATENT-CLASS-350-162SF
US-PATENT-CLASS-350-202
US-PATENT-CLASS-350-299
US-PATENT-4,035,062

N77-28933* c 74 ..... NASA-CASE-NPO-13707-1
US-PATENT-APPL-SN-617202
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-310
US-PATENT-CLASS-350-320
US-PATENT-4,035,065

N77-29260* c 26 ..... NASA-CASE-MFS-23405-1
US-PATENT-APPL-SN-718267
US-PATENT-CLASS-228-124
US-PATENT-CLASS-228-263
US-PATENT-4,033,503

N77-30236* c 27 ..... NASA-CASE-NPO-13620-1
US-PATENT-APPL-SN-666992
US-PATENT-CLASS-210-24
US-PATENT-CLASS-536-105
US-PATENT-CLASS-536-536-85
US-PATENT-CLASS-536-56
US-PATENT-CLASS-536-58
US-PATENT-CLASS-536-84
US-PATENT-4,041,233

N77-30237* c 27 ..... NASA-CASE-MFS-23345-1
US-PATENT-APPL-SN-696989
US-PATENT-CLASS-106-292
US-PATENT-CLASS-106-296
US-PATENT-CLASS-106-299
US-PATENT-4,039,347

N77-30308* c 32 ..... NASA-CASE-GSC-12017-1
US-PATENT-APPL-SN-645510
US-PATENT-CLASS-325-30
US-PATENT-CLASS-325-42
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-65
US-PATENT-4,041,391

N77-30309* c 32 ..... NASA-CASE-GSC-11898-1
US-PATENT-APPL-SN-566494
US-PATENT-CLASS-179-1SA
US-PATENT-CLASS-179-1SP
US-PATENT-4,039,754

N77-30365* c 33 ..... NASA-CASE-NPO-13812-1
US-PATENT-APPL-SN-694855
US-PATENT-CLASS-307-64
US-PATENT-CLASS-363-53
US-PATENT-CLASS-363-70
US-PATENT-4,039,925

N77-30399* c 34 ..... NASA-CASE-MFS-19287-1
US-PATENT-APPL-SN-641802
US-PATENT-CLASS-137-207
US-PATENT-CLASS-137-209
US-PATENT-CLASS-60-259
US-PATENT-CLASS-62-55
US-PATENT-4,039,000

N77-30436* c 35 ..... NASA-CASE-MFS-23175-1
US-PATENT-APPL-SN-667928
US-PATENT-CLASS-324-163
US-PATENT-CLASS-324-165
US-PATENT-CLASS-324-174
US-PATENT-CLASS-340-271
US-PATENT-CLASS-340-347P
US-PATENT-CLASS-340-347SY
US-PATENT-4,039-946

N77-30749* c 54 ..... NASA-CASE-KSC-11004-1
US-PATENT-APPL-SN-710032
US-PATENT-CLASS-3-2
US-PATENT-CLASS-3-21
US-PATENT-4,038,705

N77-31308* c 27 ..... NASA-CASE-NPO-11609-2
US-PATENT-APPL-SN-228229
US-PATENT-APPL-SN-674700
US-PATENT-CLASS-210-DIG.27
US-PATENT-CLASS-210-40
US-PATENT-CLASS-260-2.5A
US-PATENT-CLASS-260-2.5AM
US-PATENT-CLASS-260-2.5AY
US-PATENT-CLASS-260-77.5AP
US-PATENT-4,039-489

N77-31350* c 32 ..... NASA-CASE-GSC-12075-1
US-PATENT-APPL-SN-562499
US-PATENT-CLASS-343-17.7
US-PATENT-4,042,926

N77-31404* c 33 ..... NASA-CASE-ARC-10897-1
US-PATENT-APPL-SN-625781
US-PATENT-CLASS-323-93
US-PATENT-CLASS-324-60
US-PATENT-CLASS-340-200
US-PATENT-CLASS-340-347SH
US-PATENT-4,040,041

N77-31465* c 35 ..... NASA-CASE-MFS-23118-1
US-PATENT-APPL-SN-691256
US-PATENT-CLASS-356-212
US-PATENT-4,040,750

N77-31497* c 37 ..... NASA-CASE-NPO-13671-1
US-PATENT-APPL-SN-564622
US-PATENT-CLASS-123-DIG.8
US-PATENT-CLASS-123-119A
US-PATENT-CLASS-123-122AB
US-PATENT-CLASS-123-3
US-PATENT-CLASS-123-37
US-PATENT-CLASS-123-59E
US-PATENT-4,041,910

N77-31601* c 44 ..... NASA-CASE-LEW-12587-1
US-PATENT-APPL-SN-717319
US-PATENT-CLASS-136-89AC
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-52-173R
US-PATENT-CLASS-52-51
US-PATENT-4,040,867

N77-32148* c 07 ..... NASA-CASE-LEW-12312-1
US-PATENT-APPL-SN-654787
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US-PATENT-CLASS-416-190
US-PATENT-CLASS-416-193A
US-PATENT-CLASS-416-241A
US-PATENT-4,045,149

N77-32255* c 25 ..... NASA-CASE-NPO-13566-1
US-PATENT-APPL-SN-653316
US-PATENT-CLASS-204-DIG.11
US-PATENT-CLASS-204-157.1R
US-PATENT-CLASS-204-158R
US-PATENT-CLASS-204-162R
US-PATENT-CLASS-250-527
US-PATENT-4,045,359

N77-32279* c 26 ..... NASA-CASE-LEW-12906-1
US-PATENT-APPL-SN-691936
US-PATENT-CLASS-148-32
US-PATENT-CLASS-75-170
US-PATENT-4,045,255

N77-32280* c 26 ..... NASA-CASE-LEW-12270-1
US-PATENT-APPL-SN-645507
US-PATENT-CLASS-148-32.5

US-PATENT-CLASS-75-170
US-PATENT-4,046,560
N77-32308* c 27 ..... NASA-CASE-GSC-12110-1
US-PATENT-APPL-SN-682435
US-PATENT-CLASS-156-645
US-PATENT-CLASS-156-663
US-PATENT-4,046,619
N77-32342* c 32 ..... NASA-CASE-NPO-13587-1
US-PATENT-APPL-SN-589119
US-PATENT-CLASS-343-10
US-PATENT-CLASS-343-100CL
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5DP
US-PATENT-4,045,795
N77-32413* c 34 ..... NASA-CASE-GSC-11998-1
US-PATENT-APPL-SN-579989
US-PATENT-CLASS-165-105
US-PATENT-4,046,190
N77-32454* c 35 ..... NASA-CASE-LEW-12050-1
US-PATENT-APPL-SN-629457
US-PATENT-CLASS-136-202
US-PATENT-CLASS-136-236R
US-PATENT-CLASS-136-240
US-PATENT-4,045,247
N77-32455* c 35 ..... NASA-CASE-NPO-13792-1
US-PATENT-APPL-SN-677351
US-PATENT-CLASS-324-57H
US-PATENT-CLASS-324-59
US-PATENT-4,045,728
N77-32456* c 35 ..... NASA-CASE-GSC-12143-1
US-PATENT-APPL-SN-743249
US-PATENT-CLASS-250-288
US-PATENT-CLASS-73-421.5R
US-PATENT-4,046,012
N77-32478* c 36 ..... NASA-CASE-LEW-12164-1
US-PATENT-APPL-SN-511334
US-PATENT-CLASS-350-162SF
US-PATENT-4,043,674
N77-32499* c 37 ..... NASA-CASE-MSC-19535-1
US-PATENT-APPL-SN-641784
US-PATENT-CLASS-292-110
US-PATENT-4,045,063
N77-32500* c 37 ..... NASA-CASE-LEW-12527-1
US-PATENT-APPL-SN-595747
US-PATENT-CLASS-290-52
US-PATENT-CLASS-308-195
US-PATENT-CLASS-308-72
US-PATENT-4,046,434
N77-32501* c 37 ..... NASA-CASE-LEW-12477-1
US-PATENT-APPL-SN-595745
US-PATENT-CLASS-290-52
US-PATENT-CLASS-308-195
US-PATENT-4,046,435
N77-32580* c 44 ..... NASA-CASE-NPO-13675-1
US-PATENT-APPL-SN-658132
US-PATENT-CLASS-204-157.1R
US-PATENT-CLASS-250-527
US-PATENT-4,045,315
N77-32581* c 44 ..... NASA-CASE-NPO-13510-1
US-PATENT-APPL-SN-536786
US-PATENT-CLASS-126-263
US-PATENT-CLASS-165-107
US-PATENT-CLASS-165-2
US-PATENT-CLASS-62-4
US-PATENT-4,044,821
N77-32582* c 44 ..... NASA-CASE-NPO-13810-1
US-PATENT-APPL-SN-681096
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-CLASS-52-117
US-PATENT-CLASS-60-641
US-PATENT-4,044,753
N77-32583* c 44 ..... NASA-CASE-NPO-13736-1
US-PATENT-APPL-SN-681017
US-PATENT-CLASS-350-295
US-PATENT-CLASS-350-320
US-PATENT-CLASS-427-130
US-PATENT-CLASS-427-47
US-PATENT-CLASS-52-2
US-PATENT-4,046,462
N77-32721* c 54 ..... NASA-CASE-ARC-10756-1
US-PATENT-APPL-SN-436313
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US-PATENT-CLASS-214-1BC
US-PATENT-CLASS-214-1CM
US-PATENT-4,046,262
N77-32722* c 54 ..... NASA-CASE-MSC-14771-1
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US-PATENT-CLASS-165-166
US-PATENT-CLASS-55-179
US-PATENT-CLASS-55-269
US-PATENT-4,046,529
N77-32731* c 60 ..... NASA-CASE-GSC-11839-3
US-PATENT-APPL-SN-468614
US-PATENT-APPL-SN-657997
US-PATENT-CLASS-250-199
US-PATENT-CLASS-340-347AD
US-PATENT-CLASS-350-96R
US-PATENT-4,045,792
N77-32919* c 76 ..... NASA-CASE-MFS-23001-1
US-PATENT-APPL-SN-610801
US-PATENT-CLASS-156-DIG.62
US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-619
US-PATENT-CLASS-156-620
US-PATENT-4,046,617
N78-10214* c 24 ..... NASA-CASE-LAR-11898-1
US-PATENT-APPL-SN-723264
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US-PATENT-CLASS-428-138
US-PATENT-CLASS-428-73
US-PATENT-CLASS-428-902
US-PATENT-4,052,523
N78-10224* c 25 ..... NASA-CASE-LEW-12137-1
US-PATENT-APPL-SN-672210
US-PATENT-CLASS-165-105
US-PATENT-CLASS-431-158
US-PATENT-CLASS-431-352
US-PATENT-CLASS-60-39.51R
US-PATENT-4,052,144
N78-10225* c 25 ..... NASA-CASE-MSC-14831-1
US-PATENT-APPL-SN-685027
US-PATENT-CLASS-204-292
US-PATENT-CLASS-210-63R
US-PATENT-CLASS-210-71
US-PATENT-CLASS-252-472
US-PATENT-CLASS-427-229
US-PATENT-4,052,302
N78-10375* c 33 ..... NASA-CASE-MSC-14916-1
US-PATENT-APPL-SN-739914
US-PATENT-CLASS-179-107R
US-PATENT-CLASS-179-175.1A
US-PATENT-CLASS-330-2
US-PATENT-4.049,930
N78-10376* c 33 ..... NASA-CASE-MFS-23280-1
US-PATENT-APPL-SN-706425
US-PATENT-CLASS-318-200
US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-230
US-PATENT-4,052,648
N78-10377* c 33 ..... NASA-CASE-NPO-13872-1
US-PATENT-APPL-SN-742034
US-PATENT-CLASS-363-57
US-PATENT-CLASS-363-89
US-PATENT-4,052,659
N78-10428* c 35 ..... NASA-CASE-MSC-14757-1
US-PATENT-APPL-SN-625734
US-PATENT-CLASS-141-197
US-PATENT-CLASS-141-4
US-PATENT-CLASS-417-225
US-PATENT-CLASS-60-560
US-PATENT-CLASS-60-574
US-PATENT-4,051,877
N78-10429* c 35 ..... NASA-CASE-NPO-13772-1
US-PATENT-APPL-SN-675351
US-PATENT-CLASS-250-310
US-PATENT-CLASS-250-398
US-PATENT-4,052,614
N78-10467* c 37 ..... NASA-CASE-LEW-12321-1
US-PATENT-APPL-SN-596641
US-PATENT-CLASS-123-122E
US-PATENT-CLASS-123-41.33
US-PATENT-CLASS-137-104
US-PATENT-CLASS-415-180
US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
US-PATENT-4,041,697
N78-10468* c 37 ..... NASA-CASE-LEW-12313-1
US-PATENT-APPL-SN-581751
US-PATENT-CLASS-416-135
US-PATENT-CLASS-416-141
US-PATENT-CLASS-416-220R
US-PATENT-CLASS-416-248
US-PATENT-4,047,840
N78-10493* c 39 ..... NASA-CASE-NPO-13731-1
US-PATENT-APPL-SN-653682
US-PATENT-CLASS-73-15.6
US-PATENT-CLASS-73-91
US-PATENT-4,030,348
N78-10529* c 43 ..... NASA-CASE-GSC-11976-1
US-PATENT-APPL-SN-677352
US-PATENT-CLASS-324-58.5B
US-PATENT-4,052,666
N78-10554* c 44 ..... NASA-CASE-NPO-13734-1
US-PATENT-APPL-SN-680939
US-PATENT-CLASS-126-271
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-293
US-PATENT-CLASS-350-299
US-PATENT-4,051,834
N78-10686* c 52 ..... NASA-CASE-ARC-10916-1
US-PATENT-APPL-SN-701448
US-PATENT-CLASS-3-1.2
US-PATENT-CLASS-3-15
US-PATENT-CLASS-3-29
US-PATENT-4,051,558
N78-10709* c 60 ..... NASA-CASE-GSC-11839-2
US-PATENT-APPL-SN-468614
US-PATENT-APPL-SN-657996
US-PATENT-CLASS-340-173LM
US-PATENT-CLASS-350-96R
US-PATENT-CLASS-356-169
US-PATENT-4,052,705
N78-10837* c 71 ..... NASA-CASE-NPO-13802-1
US-PATENT-APPL-SN-658133
US-PATENT-CLASS-264-23
US-PATENT-CLASS-264-345
US-PATENT-CLASS-65-DIG.4
US-PATENT-CLASS-65-DIG.7
US-PATENT-CLASS-65-102
US-PATENT-CLASS-65-2
US-PATENT-CLASS-65-32
US-PATENT-CLASS-65-4B
US-PATENT-CLASS-65-87
US-PATENT-CLASS-73-505
US-PATENT-4,052,181
N78-12390* c 35 ..... NASA-CASE-MSC-14773-1
US-PATENT-APPL-SN-612966
US-PATENT-CLASS-137-197
US-PATENT-CLASS-210-222
US-PATENT-CLASS-55-100
US-PATENT-CLASS-55-26-9
US-PATENT-CLASS-55-3
US-PATENT-CLASS-62-50
US-PATENT-CLASS-62-514R
US-PATENT-4,027,494
N78-13320* c 33 ..... NASA-CASE-MFS-23274-1
US-PATENT-APPL-SN-714158
US-PATENT-CLASS-307-306
US-PATENT-CLASS-338-32S
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-5
US-PATENT-CLASS-357-73
US-PATENT-4,055,847
N78-13400* c 35 ..... NASA-CASE-ARC-10639-1
US-PATENT-APPL-SN-643043
US-PATENT-CLASS-250-336
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-351
US-PATENT-4,055,764
N78-13436* c 37 ..... NASA-CASE-LEW-12083-1
US-PATENT-APPL-SN-659882
US-PATENT-CLASS-250-499
US-PATENT-CLASS-313-61S
US-PATENT-CLASS-427-124
US-PATENT-CLASS-427-126
US-PATENT-CLASS-427-248E
US-PATENT-CLASS-427-250
US-PATENT-CLASS-427-255
US-PATENT-4,055,686
N78-13526* c 44 ..... NASA-CASE-NPO-13482-1
US-PATENT-APPL-SN-495021
US-PATENT-CLASS-136-89SJ
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
US-PATENT-4,053,918
N78-13874* c 74 ..... NASA-CASE-GSC-12088-1
US-PATENT-APPL-SN-648700
US-PATENT-CLASS-356-103
US-PATENT-CLASS-356-104
US-PATENT-4,053,229
N78-14096* c 24 ..... NASA-CASE-ARC-11042-1
US-PATENT-APPL-SN-734902
US-PATENT-CLASS-252-8.1
US-PATENT-CLASS-60-836
US-PATENT-4,061,579
N78-14104* c 25 ..... NASA-CASE-ARC-10991-1
US-PATENT-APPL-SN-744574
US-PATENT-CLASS-204-180G
US-PATENT-CLASS-204-299R
US-PATENT-4,061,561
N78-14164* c 27 ..... NASA-CASE-NPO-13867-1
US-PATENT-APPL-SN-692284
US-PATENT-CLASS-260-DIG.15
US-PATENT-CLASS-427-164
US-PATENT-CLASS-428-411
US-PATENT-CLASS-428-522
US-PATENT-CLASS-428-922
US-PATENT-CLASS-96-87A
US-PATENT-4,061,834
N78-14364* c 35 ..... NASA-CASE-ARC-11046-1
US-PATENT-APPL-SN-712419
US-PATENT-CLASS-340-27SS
US-PATENT-CLASS-73-180
US-PATENT-4,061,029
N78-14380* c 36 ..... NASA-CASE-MFS-19259-1
US-PATENT-APPL-SN-732630

US-PATENT-CLASS-250-571
US-PATENT-CLASS-356-159
US-PATENT-CLASS-356-160
US-PATENT-CLASS-356-199
US-PATENT-4,061,427

N78-14452* c 43 ..... NASA-CASE-LEW-12217-1
US-PATENT-APPL-SN-763753
US-PATENT-CLASS-166-248
US-PATENT-CLASS-166-259
US-PATENT-4,061,190

N78-14625* c 44 ..... NASA-CASE-LEW-12039-1
US-PATENT-APPL-SN-687822
US-PATENT-CLASS-320-15
US-PATENT-CLASS-320-18
US-PATENT-CLASS-320-40
US-PATENT-CLASS-320-6
US-PATENT-4,061,955

N78-14773* c 52 ..... NASA-CASE-LEW-12668-1
US-PATENT-APPL-SN-677353
US-PATENT-CLASS-128-305
US-PATENT-4,061,146

N78-14784* c 54 ..... NASA-CASE-MSC-14632-1
US-PATENT-APPL-SN-571459
US-PATENT-CLASS-204-180P
US-PATENT-CLASS-204-301
US-PATENT-CLASS-210-192
US-PATENT-CLASS-210-96M
US-PATENT-CLASS-23-253A
US-PATENT-4,061,570

N78-14867* c 71 ..... NASA-CASE-LAR-12106-1
US-PATENT-APPL-SN-740156
US-PATENT-CLASS-330-52
US-PATENT-CLASS-73-646
US-PATENT-4,061,041

N78-14889* c 74 ..... NASA-CASE-KSC-11047-1
US-PATENT-APPL-SN-715485
US-PATENT-CLASS-179-91R
US-PATENT-CLASS-250-199
US-PATENT-CLASS-358-142
US-PATENT-4,061,577

N78-15180* c 24 ..... NASA-CASE-ARC-10913-1
US-PATENT-APPL-SN-698646
US-PATENT-CLASS-106-15FP
US-PATENT-CLASS-260-2.5N
US-PATENT-CLASS-260-2.5R
US-PATENT-CLASS-428-117
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-73
US-PATENT-CLASS-428-920
US-PATENT-4,061,812

N78-15210* c 25 ..... NASA-CASE-LAR-12046-1
US-PATENT-APPL-SN-755310
US-PATENT-CLASS-23-230PC
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-73-23
US-PATENT-4,062,650

N78-15276* c 27 ..... NASA-CASE-LEW-12053-1
US-PATENT-APPL-SN-513613
US-PATENT-CLASS-260-2R
US-PATENT-CLASS-526-193
US-PATENT-CLASS-526-225
US-PATENT-CLASS-544-193
US-PATENT-4,061,856

N78-15323* c 32 ..... NASA-CASE-NPO-13836-1
US-PATENT-APPL-SN-699002
US-PATENT-CLASS-178-69.1
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-63
US-PATENT-CLASS-343-179
US-PATENT-4,061,974

N78-15461* c 35 ..... NASA-CASE-NPO-13808-1
US-PATENT-APPL-SN-675328
US-PATENT-CLASS-250-322
US-PATENT-CLASS-250-416TV
US-PATENT-4,063,092

N78-15512* c 39 ..... NASA-CASE-LAR-12016-1
US-PATENT-APPL-SN-754066
US-PATENT-CLASS-73-579
US-PATENT-CLASS-73-630
US-PATENT-CLASS-73-88F
US-PATENT-4,062,227

N78-15560* c 44 ..... NASA-CASE-LAR-12009-1
US-PATENT-APPL-SN-717320
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-400
US-PATENT-CLASS-237-1A
US-PATENT-4,062,347

N78-15879* c 74 ..... NASA-CASE-LAR-10385-3
US-PATENT-APPL-SN-370999
US-PATENT-APPL-SN-38816
US-PATENT-CLASS-350-1
US-PATENT-CLASS-428-334
US-PATENT-CLASS-428-336
US-PATENT-CLASS-428-426
US-PATENT-CLASS-428-428
US-PATENT-4,062,996

N78-15880* c 74 ..... NASA-CASE-MFS-22409-2
US-PATENT-APPL-SN-445398
US-PATENT-APPL-SN-636193
US-PATENT-CLASS-250-272
US-PATENT-CLASS-250-320
US-PATENT-4,063,088

N78-16369* c 37 ..... NASA-CASE-NPO-13619-1
US-PATENT-APPL-SN-572990
US-PATENT-CLASS-185-38
US-PATENT-CLASS-74-81
US-PATENT-CLASS-74-83
US-PATENT-4,062,245

N78-16387* c 39 ..... NASA-CASE-LAR-11490-1
US-PATENT-APPL-SN-707125
US-PATENT-CLASS-358-106
US-PATENT-4,063,282

N78-17031* c 04 ..... NASA-CASE-XNP-01458
US-PATENT-APPL-SN-160093
US-PATENT-CLASS-235-70
US-PATENT-3,229,905

N78-17055* c 07 ..... NASA-CASE-LEW-12317-1
US-PATENT-APPL-SN-581750
US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-271
US-PATENT-4,068,469

N78-17056* c 07 ..... NASA-CASE-LEW-12390-1
US-PATENT-APPL-SN-522109
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-74-385
US-PATENT-CLASS-74-417
US-PATENT-4,068,470

N78-17140* c 17 ..... NASA-CASE-HQN-10880-1
US-PATENT-APPL-SN-595254
US-PATENT-CLASS-325-118
US-PATENT-CLASS-325-66
US-PATENT-CLASS-343-112R
US-PATENT-CLASS-343-225
US-PATENT-CLASS-362-269
US-PATENT-4,067,015

N78-17149* c 24 ..... NASA-CASE-LAR-11898-2
US-PATENT-APPL-SN-723264
US-PATENT-APPL-SN-799024
US-PATENT-CLASS-156-245
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-289
US-PATENT-CLASS-428-116
US-PATENT-CLASS-428-902
US-PATENT-4,063,981

N78-17150* c 24 ..... NASA-CASE-LAR-12019-1
US-PATENT-APPL-SN-792067
US-PATENT-CLASS-156-154
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-286
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-300
US-PATENT-CLASS-156-306
US-PATENT-CLASS-156-311
US-PATENT-CLASS-264-157
US-PATENT-CLASS-264-90
US-PATENT-CLASS-428-294
US-PATENT-CLASS-428-302
US-PATENT-4,065,340

N78-17205* c 27 ..... NASA-CASE-LAR-12181-1
US-PATENT-APPL-SN-532784
US-PATENT-APPL-SN-734901
US-PATENT-CLASS-156-309
US-PATENT-CLASS-156-331
US-PATENT-CLASS-260-30.4N
US-PATENT-CLASS-260-32.2R
US-PATENT-CLASS-260-32.6NT
US-PATENT-CLASS-260-33.4R
US-PATENT-4,065,345

N78-17206* c 27 ..... NASA-CASE-LAR-11902-1
US-PATENT-APPL-SN-672695
US-PATENT-CLASS-106-43
US-PATENT-CLASS-60-200A
US-PATENT-CLASS-75-229
US-PATENT-CLASS-75-239
US-PATENT-CLASS-75-241
US-PATENT-4,067,742

N78-17213* c 27 ..... NASA-CASE-MSC-14331-2
US-PATENT-APPL-SN-657907
US-PATENT-CLASS-260-75NH
US-PATENT-CLASS-260-75NK
US-PATENT-CLASS-260-75NT
US-PATENT-CLASS-260-77.5AM
US-PATENT-CLASS-260-77.5AN
US-PATENT-CLASS-260-77.5AP
US-PATENT-CLASS-260-77.5AT
US-PATENT-CLASS-260-77.55P
US-PATENT-4,069,212

N78-17214* c 27 ..... NASA-CASE-NPO-10557
US-PATENT-APPL-SN-759220
US-PATENT-CLASS-260-67
US-PATENT-3,538,053

N78-17215* c 27 ..... NASA-CASE-NPO-13764-1
US-PATENT-APPL-SN-674194
US-PATENT-CLASS-128-92C
US-PATENT-CLASS-128-92G
US-PATENT-CLASS-260-42.17
US-PATENT-CLASS-3-1.9
US-PATENT-4,064,566

N78-17237* c 31 ..... NASA-CASE-LEW-11981-1
US-PATENT-APPL-SN-672220
US-PATENT-CLASS-313-22
US-PATENT-CLASS-62-376
US-PATENT-CLASS-62-514R
US-PATENT-4,068,495

N78-17238* c 31 ..... NASA-CASE-NPO-11978
US-PATENT-APPL-SN-264268
US-PATENT-CLASS-313-175
US-PATENT-CLASS-313-176
US-PATENT-CLASS-313-180
US-PATENT-CLASS-313-184
US-PATENT-CLASS-313-224
US-PATENT-3,769,544

N78-17293* c 33 ..... NASA-CASE-XLE-06094
US-PATENT-APPL-SN-523632
US-PATENT-CLASS-315-22
US-PATENT-3,423,627

N78-17294* c 33 ..... NASA-CASE-MSC-11235
US-PATENT-APPL-SN-698239
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US-PATENT-CLASS-307-297
US-PATENT-CLASS-323-4
US-PATENT-CLASS-328-172
US-PATENT-3,573,504

N78-17295* c 33 ..... NASA-CASE-XGS-09186
US-PATENT-APPL-SN-669911
US-PATENT-CLASS-323-18
US-PATENT-3,475,675

N78-17296* c 33 ..... NASA-CASE-GSC-10135
US-PATENT-APPL-SN-764823
US-PATENT-CLASS-307-53
US-PATENT-CLASS-307-69
US-PATENT-CLASS-320-53
US-PATENT-CLASS-323-19
US-PATENT-3,600,599

N78-17335* c 34 ..... NASA-CASE-LEW-12508-1
US-PATENT-APPL-SN-746580
US-PATENT-CLASS-62-3
US-PATENT-4,069,028

N78-17336* c 34 ..... NASA-CASE-ARC-10198
US-PATENT-APPL-SN-42088
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US-PATENT-CLASS-165-134
US-PATENT-3,777,811

N78-17337* c 34 ..... NASA-CASE-ARC-10199
US-PATENT-APPL-SN-824628
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-96
US-PATENT-CLASS-2-2.1
US-PATENT-3,543,839

N78-17357* c 35 ..... NASA-CASE-MFS-23194-1
US-PATENT-APPL-SN-629458
US-PATENT-CLASS-350-3.5
US-PATENT-4,065,202

N78-17358* c 35 ..... NASA-CASE-MSC-11242
US-PATENT-APPL-SN-636796
US-PATENT-CLASS-73-67.2
US-PATENT-3,492,858

N78-17359* c 35 ..... NASA-CASE-NPO-11150
US-PATENT-APPL-SN-858950
US-PATENT-CLASS-338-100
US-PATENT-CLASS-338-36
US-PATENT-CLASS-338-99
US-PATENT-3,641,470

N78-17366* c 36 ..... NASA-CASE-MFS-22597
US-PATENT-APPL-SN-395895
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US-PATENT-CLASS-331-94.5T
US-PATENT-3,882,417

N78-17383* c 37 ..... NASA-CASE-MSC-19666-1
US-PATENT-APPL-SN-721150
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US-PATENT-CLASS-118-500
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US-PATENT-CLASS-269-21
US-PATENT-CLASS-279-3
US-PATENT-CLASS-51-235
US-PATENT-4,066,039

N78-17384* c 37 ..... NASA-CASE-LEW-12916-1
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US-PATENT-CLASS-60-262
US-PATENT-CLASS-60-271

US-PATENT-4,064,692
N78-17385* c 37 ..... NASA-CASE-WOO-00625
US-PATENT-APPL-SN-362278
US-PATENT-CLASS-74-800
US-PATENT-3,306,134
N78-17386* c 37 ..... NASA-CASE-NPO-10151
US-PATENT-APPL-SN-365244
US-PATENT-CLASS-328-233
US-PATENT-3,387,218
N78-17395* c 38 ..... NASA-CASE-NPO-13283
US-PATENT-APPL-SN-401225
US-PATENT-CLASS-235-151.3
US-PATENT-CLASS-235-156
US-PATENT-CLASS-235-181
US-PATENT-CLASS-250-572
US-PATENT-CLASS-356-237
US-PATENT-3,908,118
N78-17396* c 38 ..... NASA-CASE-NPO-13282
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US-PATENT-CLASS-235-156
US-PATENT-CLASS-250-563
US-PATENT-CLASS-250-572
US-PATENT-CLASS-356-165
US-PATENT-CLASS-356-237
US-PATENT-3,909,602
N78-17460* c 44 ..... NASA-CASE-NPO-13579-1
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US-PATENT-CLASS-126-263
US-PATENT-CLASS-126-271
US-PATENT-CLASS-165-2
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-60-641
US-PATENT-CLASS-62-4
US-PATENT-4,065,053
N78-17675* c 54 ..... NASA-CASE-ARC-11101-1
US-PATENT-APPL-SN-753976
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-36-119
US-PATENT-CLASS-36-92
US-PATENT-4,064,642
N78-17676* c 54 ..... NASA-CASE-MFS-23311-1
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US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-3-12.5
US-PATENT-CLASS-74-515E
US-PATENT-4,068,763
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US-PATENT-CLASS-2-161
US-PATENT-3,490,074
N78-17678* c 54 ..... NASA-CASE-XMS-04670
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US-PATENT-CLASS-2-2.1
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N78-17679* c 54 ..... NASA-CASE-XMS-04928
US-PATENT-APPL-SN-584914
US-PATENT-CLASS-98-1
US-PATENT-3,487,765
N78-17680* c 54 ..... NASA-CASE-XMS-09653
US-PATENT-APPL-SN-538863
US-PATENT-CLASS-2-6
US-PATENT-3,359,568
N78-17691* c 60 ..... NASA-CASE-GSC-12044-1
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US-PATENT-4,069,478
N78-17865* c 74 ..... NASA-CASE-MSC-12618-1
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US-PATENT-CLASS-358-225
US-PATENT-CLASS-358-41
US-PATENT-CLASS-358-55
US-PATENT-4,067,043
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US-PATENT-CLASS-350-204
US-PATENT-CLASS-356-28
US-PATENT-4,063,814
N78-17867* c 74 ..... NASA-CASE-NPO-13759-1
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US-PATENT-CLASS-250-344
US-PATENT-CLASS-356-204
US-PATENT-CLASS-356-246
US-PATENT-4,067,653
N78-18066* c 07 ..... NASA-CASE-LEW-12389-2
US-PATENT-APPL-SN-628221
US-PATENT-CLASS-244-53A
US-PATENT-CLASS-244-54
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-39.31
US-PATENT-4,055,041
N78-18067* c 07 ..... NASA-CASE-LEW-12917-1
US-PATENT-APPL-SN-583055
US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-262
US-PATENT-4,069,661
N78-18083* c 09 ..... NASA-CASE-ARC-10903-1
US-PATENT-APPL-SN-623536
US-PATENT-CLASS-35-12N
US-PATENT-CLASS-358-104
US-PATENT-4,055,004
N78-18182* c 26 ..... NASA-CASE-LEW-12095-1
US-PATENT-APPL-SN-651009
US-PATENT-CLASS-75-124
US-PATENT-CLASS-75-126D
US-PATENT-CLASS-75-126F
US-PATENT-CLASS-75-128G
US-PATENT-CLASS-75-128T
US-PATENT-4,055,416
N78-18183* c 26 ..... NASA-CASE-LEW-12905-1
US-PATENT-APPL-SN-684171
US-PATENT-CLASS-148-32
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,055,447
N78-18308* c 33 ..... NASA-CASE-FRC-10090-1
US-PATENT-APPL-SN-737974
US-PATENT-CLASS-307-265
US-PATENT-CLASS-307-350
US-PATENT-CLASS-307-360
US-PATENT-CLASS-328-150
US-PATENT-4,055,777
N78-18355* c 34 ..... NASA-CASE-LEW-12554-1
US-PATENT-APPL-SN-686449
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-405
US-PATENT-CLASS-427-419A
US-PATENT-CLASS-427-423
US-PATENT-CLASS-428-633
US-PATENT-CLASS-428-652
US-PATENT-CLASS-428-667
US-PATENT-4,055,705
N78-18390* c 35 ..... NASA-CASE-MFS-23008-1
US-PATENT-APPL-SN-665734
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US-PATENT-CLASS-73-28
US-PATENT-CLASS-73-432PS
US-PATENT-CLASS-73-432R
US-PATENT-4,055,089
N78-18391* c 35 ..... NASA-CASE-NPO-13687-1
US-PATENT-APPL-SN-641803
US-PATENT-CLASS-356-106S
US-PATENT-CLASS-356-110
US-PATENT-4,053,231
N78-18395* # c 35 ..... NASA-CASE-NPO-13999-1
US-PATENT-APPL-SN-858596
N78-18410* c 36 ..... NASA-CASE-NPO-13801-1
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US-PATENT-CLASS-332-7.5
US-PATENT-4,055,810
N78-18761* c 54 ..... NASA-CASE-MSC-10954-1
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US-PATENT-3,514,785
N78-18905* c 74 ..... NASA-CASE-GSC-12010-1
US-PATENT-APPL-SN-680958
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US-PATENT-CLASS-313-442
US-PATENT-CLASS-313-94
US-PATENT-4,070,574
N78-19302* c 27 ..... NASA-CASE-NPO-13690-1
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US-PATENT-CLASS-106-39.5
US-PATENT-CLASS-106-65
US-PATENT-CLASS-106-73.5
US-PATENT-4,072,532
N78-19465* c 35 ..... NASA-CASE-ARC-10896-1
US-PATENT-APPL-SN-615030
US-PATENT-CLASS-73-23
US-PATENT-4,055,072
N78-19466* c 35 ..... NASA-CASE-ARC-10820-1
US-PATENT-APPL-SN-620675
US-PATENT-CLASS-119-51.11
US-PATENT-CLASS-119-72.5
US-PATENT-CLASS-137-624.11
US-PATENT-4,055,147
N78-19599* c 44 ..... NASA-CASE-LEW-12159-1
US-PATENT-APPL-SN-643041
US-PATENT-CLASS-126-270
US-PATENT-CLASS-427-160
US-PATENT-CLASS-428-652
US-PATENT-CLASS-428-667
US-PATENT-CLASS-428-679
US-PATENT-4,055,707
N78-19920* c 73 ..... NASA-CASE-HQN-10841-1
US-PATENT-APPL-SN-560891
US-PATENT-CLASS-176-39
US-PATENT-CLASS-330-4.3
US-PATENT-4,075,057
N78-24275* c 20 ..... NASA-CASE-LAR-12018-1
US-PATENT-APPL-SN-678520
US-PATENT-CLASS-102-39
US-PATENT-CLASS-102-49.7
US-PATENT-CLASS-102-70R
US-PATENT-CLASS-285-192
US-PATENT-CLASS-60-39.82E
US-PATENT-4,080,901
N78-24290* c 24 ..... NASA-CASE-MFS-23506-1
US-PATENT-APPL-SN-760809
US-PATENT-CLASS-260-2.5AK
US-PATENT-CLASS-260-2.5AP
US-PATENT-CLASS-260-2.5B
US-PATENT-CLASS-260-2.5BE
US-PATENT-CLASS-260-2.5EP
US-PATENT-CLASS-260-2.5FP
US-PATENT-CLASS-260-29.1R
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-427-427
US-PATENT-4,077,921
N78-24333* c 26 ..... NASA-CASE-MSC-19693-1
US-PATENT-APPL-SN-708771
US-PATENT-CLASS-148-12.7A
US-PATENT-CLASS-148-125
US-PATENT-4,077,813
N78-24365* c 28 ..... NASA-CASE-LEW-12081-1
US-PATENT-APPL-SN-676432
US-PATENT-CLASS-250-492R
US-PATENT-CLASS-34-15
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-62-100
US-PATENT-CLASS-62-48
US-PATENT-4,077,788
N78-24391* c 32 ..... NASA-CASE-NPO-13886-1
US-PATENT-APPL-SN-730045
US-PATENT-CLASS-307-151
US-PATENT-CLASS-343-700MS
US-PATENT-CLASS-361-395
US-PATENT-4,079,268
N78-24515* c 35 ..... NASA-CASE-LAR-11201-1
US-PATENT-APPL-SN-788705
US-PATENT-CLASS-416-144
US-PATENT-CLASS-416-61
US-PATENT-CLASS-73-456
US-PATENT-CLASS-73-756
US-PATENT-4,082,001
N78-24544* c 37 ..... NASA-CASE-MSC-16000-1
US-PATENT-APPL-SN-739915
US-PATENT-CLASS-29-156.8R
US-PATENT-CLASS-29-23.5
US-PATENT-CLASS-29-244
US-PATENT-CLASS-29-252
US-PATENT-4,078,290
N78-24545* c 37 ..... NASA-CASE-LEW-12785-1
US-PATENT-APPL-SN-739909
US-PATENT-CLASS-60-39.28R
US-PATENT-4,078,378
N78-24608* c 44 ..... NASA-CASE-GSC-12030-1
US-PATENT-APPL-SN-710035
US-PATENT-CLASS-308-10
US-PATENT-CLASS-310-153
US-PATENT-CLASS-310-154
US-PATENT-CLASS-310-178
US-PATENT-CLASS-310-269
US-PATENT-4,077,678
N78-24609* c 44 ..... NASA-CASE-GSC-12022-2
US-PATENT-APPL-SN-693074
US-PATENT-CLASS-136-89SG
US-PATENT-CLASS-148-174
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-248J
US-PATENT-CLASS-427-249
US-PATENT-CLASS-427-86
US-PATENT-4,077,818
N78-24950* c 76 ..... NASA-CASE-MFS-23315-1
US-PATENT-APPL-SN-724874
US-PATENT-CLASS-250-277CH
US-PATENT-CLASS-250-280
US-PATENT-4,078,175
N78-25089* c 07 ..... NASA-CASE-LEW-12452-1
US-PATENT-APPL-SN-695513
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-39.52
US-PATENT-4,083,181
N78-25090* c 07 ..... NASA-CASE-LEW-11855-1
US-PATENT-APPL-SN-672222
US-PATENT-CLASS-277-134
US-PATENT-CLASS-277-25
US-PATENT-4,084,825
N78-25119* c 15 ..... NASA-CASE-MFS-23564-1
US-PATENT-APPL-SN-739908
US-PATENT-CLASS-244-161
US-PATENT-CLASS-244-167

US-PATENT-4,083,520

N78-25148* c 25 ..... NASA-CASE-LEW-12465-1
US-PATENT-APPL-SN-692413
US-PATENT-CLASS-250-423P
US-PATENT-CLASS-250-528
US-PATENT-CLASS-250-531
US-PATENT-CLASS-55-100
US-PATENT-CLASS-55-101
US-PATENT-CLASS-55-2
US-PATENT-4,085,332

N78-25256* c 31 ..... NASA-CASE-NPO-13839-1
US-PATENT-APPL-SN-712981
US-PATENT-CLASS-250-332
US-PATENT-CLASS-313-22
US-PATENT-CLASS-62-514R
US-PATENT-4,077,231

N78-25319* c 33 ..... NASA-CASE-NPO-13909-1
US-PATENT-APPL-SN-744477
US-PATENT-CLASS-324-57DE
US-PATENT-CLASS-324-57SS
US-PATENT-CLASS-324-58A
US-PATENT-4,084,132

N78-25350* c 34 ..... NASA-CASE-MSC-19568-1
US-PATENT-APPL-SN-681000
US-PATENT-CLASS-428-913
US-PATENT-CLASS-428-93
US-PATENT-CLASS-428-94
US-PATENT-CLASS-428-95
US-PATENT-CLASS-428-96
US-PATENT-CLASS-428-97
US-PATENT-CLASS-49-DIG.1
US-PATENT-CLASS-49-479
US-PATENT-CLASS-49-485
US-PATENT-4,078,110

N78-25351* c 34 ..... NASA-CASE-LEW-12718-1
US-PATENT-APPL-SN-779428
US-PATENT-CLASS-137-484.2
US-PATENT-CLASS-137-501
US-PATENT-CLASS-137-505.16
US-PATENT-4,084,612

N78-25391* c 35 ..... NASA-CASE-NPO-13948-1
US-PATENT-APPL-SN-752748
US-PATENT-CLASS-204-195W
US-PATENT-CLASS-73-336.5
US-PATENT-4,083,765

N78-25426* c 37 ..... NASA-CASE-MSC-12731-1
US-PATENT-APPL-SN-690816
US-PATENT-CLASS-137-505.25
US-PATENT-CLASS-137-625.3
US-PATENT-CLASS-137-625.38
US-PATENT-4,083,380

N78-25527* c 44 ..... NASA-CASE-LEW-12552-1
US-PATENT-APPL-SN-770869
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-65
US-PATENT-CLASS-357-67
US-PATENT-CLASS-427-261
US-PATENT-CLASS-427-75
US-PATENT-4,082,569

N78-25528* c 44 ..... NASA-CASE-LEW-12185-1
US-PATENT-APPL-SN-746269
US-PATENT-CLASS-136-89H
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-628
US-PATENT-4,083,097

N78-25529* c 44 ..... NASA-CASE-LEW-12541-1
US-PATENT-APPL-SN-790637
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-136-89H
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-156-633
US-PATENT-CLASS-29-572
US-PATENT-4,084,985

N78-25530* c 44 ..... NASA-CASE-LEW-12649-1
US-PATENT-APPL-SN-720521
US-PATENT-CLASS-427-385B
US-PATENT-CLASS-427-385C
US-PATENT-CLASS-429-254
US-PATENT-4,085,241

N78-25531* c 44 ..... NASA-CASE-MFS-23270-1
US-PATENT-APPL-SN-744573
US-PATENT-CLASS-320-13
US-PATENT-CLASS-320-15
US-PATENT-CLASS-320-32
US-PATENT-CLASS-320-39
US-PATENT-CLASS-320-9
US-PATENT-4,084,124

N78-27121* c 07 ..... NASA-CASE-LAR-11919-1
US-PATENT-APPL-SN-672221
US-PATENT-CLASS-239-265.25
US-PATENT-CLASS-239-265.33
US-PATENT-CLASS-60-230
US-PATENT-4,088,270

N78-27176* # c 20 ..... NASA-CASE-MFS-23642-2
US-PATENT-APPL-SN-923758

N78-27180* c 24 ..... NASA-CASE-ARC-11043-1
US-PATENT-APPL-SN-753964
US-PATENT-CLASS-260-33.6EP
US-PATENT-CLASS-260-33.6PQ
US-PATENT-CLASS-260-33.8EP
US-PATENT-CLASS-260-33.8UA
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-260-42.43
US-PATENT-CLASS-260-45.7R
US-PATENT-CLASS-260-45.75W
US-PATENT-CLASS-260-45.85N
US-PATENT-CLASS-260-45.9R
US-PATENT-CLASS-427-386
US-PATENT-CLASS-427-388A
US-PATENT-CLASS-428-313
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-921
US-PATENT-4,088,806

N78-27184* # c 24 ..... NASA-CASE-ARC-11040-2
US-PATENT-APPL-SN-920878

N78-27226* c 25 ..... NASA-CASE-LEW-10518-3
US-PATENT-APPL-SN-394207
US-PATENT-CLASS-176-11
US-PATENT-CLASS-176-16
US-PATENT-CLASS-250-400
US-PATENT-CLASS-250-429
US-PATENT-CLASS-250-492B
US-PATENT-4,088,532

N78-27326* c 33 ..... NASA-CASE-MFS-23312-1
US-PATENT-APPL-SN-699012
US-PATENT-CLASS-29-571
US-PATENT-CLASS-29-578
US-PATENT-CLASS-357-91
US-PATENT-4,087,902

N78-27357* c 34 ..... NASA-CASE-LEW-11877-1
US-PATENT-APPL-SN-708660
US-PATENT-CLASS-431-10
US-PATENT-CLASS-431-328
US-PATENT-CLASS-431-7
US-PATENT-CLASS-60-39.65
US-PATENT-CLASS-60-39.69R
US-PATENT-4,087,962

N78-27384* c 35 ..... NASA-CASE-LAR-11973-1
US-PATENT-APPL-SN-821681
US-PATENT-CLASS-73-170A
US-PATENT-CLASS-73-425.4R
US-PATENT-CLASS-73-61R
US-PATENT-4,089,209

N78-27402* c 36 ..... NASA-CASE-NPO-13945-1
US-PATENT-APPL-SN-704180
US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-331-94.5PE
US-PATENT-4,088,965

N78-27423* c 37 ..... NASA-CASE-MSC-16270-1
US-PATENT-APPL-SN-837260
US-PATENT-CLASS-269-21
US-PATENT-CLASS-269-266
US-PATENT-4,088,312

N78-27424* c 37 ..... NASA-CASE-LAR-11889-2
US-PATENT-APPL-SN-662182
US-PATENT-APPL-SN-807703
US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-178R
US-PATENT-4,088,018

N78-27425* c 37 ..... NASA-CASE-ARC-10981-1
US-PATENT-APPL-SN-738218
US-PATENT-CLASS-248-178
US-PATENT-CLASS-248-186
US-PATENT-4,088,291

N78-27515* c 44 ..... NASA-CASE-NPO-12148-1
US-PATENT-APPL-SN-709415
US-PATENT-CLASS-136-89P
US-PATENT-4,089,705

N78-27733* c 51 ..... NASA-CASE-ARC-10917-1
US-PATENT-APPL-SN-672223
US-PATENT-CLASS-119-29
US-PATENT-4,088,094

N78-27904* c 74 ..... NASA-CASE-LAR-11869-1
US-PATENT-APPL-SN-740155
US-PATENT-CLASS-356-120
US-PATENT-CLASS-356-167
US-PATENT-4,088,408

N78-27913* c 75 ..... NASA-CASE-MFS-22906-1
US-PATENT-APPL-SN-684807
US-PATENT-CLASS-29-81C
US-PATENT-CLASS-313-231.3
US-PATENT-CLASS-315-111.2
US-PATENT-4,088,926

N78-28411* c 35 ..... NASA-CASE-KSC-11035-1
US-PATENT-APPL-SN-780874
US-PATENT-CLASS-324-130
US-PATENT-CLASS-324-32
US-PATENT-CLASS-324-74
US-PATENT-4,088,951

N78-28594* c 44 ..... NASA-CASE-NPO-13821-1
US-PATENT-APPL-SN-688852
US-PATENT-CLASS-343-113R
US-PATENT-CLASS-343-119
US-PATENT-CLASS-343-16M
US-PATENT-4,088,999

N78-28913* c 73 ..... NASA-CASE-NPO-13114-2
US-PATENT-APPL-SN-294738
US-PATENT-APPL-SN-634214
US-PATENT-CLASS-176-22
US-PATENT-CLASS-176-33
US-PATENT-CLASS-176-39
US-PATENT-4,085,004

N78-29421* c 35 ..... NASA-CASE-NPO-11954-1
US-PATENT-APPL-SN-229287
US-PATENT-CLASS-179-100.2CH
US-PATENT-CLASS-340-174.1M
US-PATENT-CLASS-340-174YC
US-PATENT-CLASS-350-151
US-PATENT-3,775,570

N78-31129* c 09 ..... NASA-CASE-MSC-19706-1
US-PATENT-APPL-SN-767911
US-PATENT-CLASS-239-265.25
US-PATENT-CLASS-73-147
US-PATENT-4,091,665

N78-31232* c 27 ..... NASA-CASE-ARC-11008-1
US-PATENT-APPL-SN-708951
US-PATENT-CLASS-260-2.5N
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-63N
US-PATENT-CLASS-260-78.4I
US-PATENT-4,092,274

N78-31233* c 27 ..... NASA-CASE-ARC-11057-1
US-PATENT-APPL-SN-807762
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US-PATENT-CLASS-350-175NG
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US-PATENT-CLASS-427-40
US-PATENT-CLASS-427-41
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US-PATENT-CLASS-428-412
US-PATENT-CLASS-428-422
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-515
US-PATENT-CLASS-428-523
US-PATENT-CLASS-428-538
US-PATENT-4,091,166

N78-31255* c 28 ..... NASA-CASE-NPO-14103-1
US-PATENT-APPL-SN-797210
US-PATENT-CLASS-149-105
US-PATENT-CLASS-149-111
US-PATENT-CLASS-149-19.4
US-PATENT-CLASS-149-19.8
US-PATENT-CLASS-149-88
US-PATENT-CLASS-149-92
US-PATENT-CLASS-149-93
US-PATENT-4,092,188

N78-31321* c 32 ..... NASA-CASE-NPO-14022-1
US-PATENT-APPL-SN-780728
US-PATENT-CLASS-343-781CA
US-PATENT-CLASS-343-782
US-PATENT-CLASS-343-837
US-PATENT-4,092,648

N78-31426* c 37 ..... NASA-CASE-GSC-11883-2
US-PATENT-APPL-SN-596787
US-PATENT-APPL-SN-747675
US-PATENT-CLASS-60-527
US-PATENT-CLASS-74-100R
US-PATENT-4,010,455
US-PATENT-4,092,874

N78-31525* c 44 ..... NASA-CASE-NPO-13581-2
US-PATENT-APPL-SN-590975
US-PATENT-APPL-SN-811815
US-PATENT-CLASS-126-271
US-PATENT-CLASS-237-1A
US-PATENT-4,091,800

N78-31526* c 44 ..... NASA-CASE-NPO-13813-1
NASA-CASE-NPO-13914-1
US-PATENT-APPL-SN-765139
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-CLASS-350-299
US-PATENT-4,091,798

N78-31527* c 44 ..... NASA-CASE-NPO-13937-1
US-PATENT-APPL-SN-718137
US-PATENT-CLASS-201-17
US-PATENT-CLASS-44-1R
US-PATENT-CLASS-44-2
US-PATENT-4,081,250

N78-31735* c 54 ..... NASA-CASE-ARC-11058-1
US-PATENT-APPL-SN-753965
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-235
US-PATENT-4,091,464

N78-31736* c 54 ..... NASA-CASE-ARC-11100-1

US-PATENT-APPL-SN-780569
US-PATENT-CLASS-2-2.1A
US-PATENT-4,091,465
N78-32086* c 05 ..... NASA-CASE-LAR-11932-1
US-PATENT-APPL-SN-718244
US-PATENT-CLASS-244-218
US-PATENT-CLASS-244-45A
US-PATENT-CLASS-244-46
US-PATENT-4,093,156
N78-32168*# c 15 ..... NASA-CASE-LAR-12264-1
US-PATENT-APPL-SN-943087
N78-32179* c 20 ..... NASA-CASE-NPO-11458A
US-PATENT-APPL-SN-48621
US-PATENT-CLASS-102-103
US-PATENT-CLASS-149-19.4
US-PATENT-CLASS-149-42
US-PATENT-CLASS-149-43
US-PATENT-CLASS-149-44
US-PATENT-CLASS-149-76
US-PATENT-CLASS-149-83
US-PATENT-CLASS-149-85
US-PATENT-4,116,131
N78-32229* c 26 ..... NASA-CASE-ARC-10992-1
US-PATENT-APPL-SN-760810
US-PATENT-CLASS-204-164
US-PATENT-CLASS-204-175
US-PATENT-CLASS-423-582
US-PATENT-CLASS-423-583
US-PATENT-4,094,758
N78-32256* c 27 ..... NASA-CASE-MSC-14903-1
US-PATENT-APPL-SN-706424
US-PATENT-CLASS-260-2P
US-PATENT-CLASS-260-551P
US-PATENT-CLASS-260-606-5P
US-PATENT-CLASS-260-959
US-PATENT-CLASS-526-13
US-PATENT-CLASS-526-23
US-PATENT-CLASS-526-27
US-PATENT-CLASS-526-275
US-PATENT-CLASS-526-276
US-PATENT-CLASS-526-278
US-PATENT-CLASS-526-49
US-PATENT-CLASS-526-50
US-PATENT-CLASS-544-195
US-PATENT-4,092,466
N78-32260* c 27 ..... NASA-CASE-ARC-11051-1
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US-PATENT-CLASS-106-54
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US-PATENT-CLASS-427-376B
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
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US-PATENT-CLASS-428-341
US-PATENT-CLASS-428-406
US-PATENT-CLASS-428-427
US-PATENT-CLASS-428-428
US-PATENT-CLASS-428-446
US-PATENT-CLASS-428-920
US-PATENT-CLASS-65-30R
US-PATENT-CLASS-65-60D
US-PATENT-4,093,771
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US-PATENT-APPL-SN-562992
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US-PATENT-CLASS-260-49
US-PATENT-CLASS-260-63N
US-PATENT-CLASS-260-63R
US-PATENT-CLASS-260-65
US-PATENT-CLASS-260-78TF
US-PATENT-4,094,862
N78-32262* c 27 ..... NASA-CASE-MSC-14331-3
US-PATENT-APPL-SN-657998
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US-PATENT-CLASS-264-184
US-PATENT-CLASS-264-211
US-PATENT-CLASS-264-236
US-PATENT-4,094,943
N78-32338* c 33 ..... NASA-CASE-GSC-12137-1
US-PATENT-APPL-SN-808510
US-PATENT-CLASS-329-124
US-PATENT-CLASS-331-12
US-PATENT-CLASS-331-4
US-PATENT-CLASS-331-64
US-PATENT-4,092,606
N78-32339* c 33 ..... NASA-CASE-GSC-12145-1
US-PATENT-APPL-SN-769149
US-PATENT-CLASS-307-229
US-PATENT-CLASS-307-230
US-PATENT-CLASS-328-145
US-PATENT-4,091,329
N78-32340* c 33 ..... NASA-CASE-GSC-12146-1
US-PATENT-APPL-SN-782480
US-PATENT-CLASS-325-159
US-PATENT-CLASS-325-187
US-PATENT-CLASS-333-17R
US-PATENT-CLASS-333-81R
US-PATENT-4,092,617
N78-32341* c 33 ..... NASA-CASE-LEW-12791-1
US-PATENT-APPL-SN-801432
US-PATENT-CLASS-363-101
US-PATENT-CLASS-363-16
US-PATENT-CLASS-363-60
US-PATENT-4,092,712
N78-32395* c 35 ..... NASA-CASE-ARC-11036-1
US-PATENT-APPL-SN-740457
US-PATENT-CLASS-33-366
US-PATENT-4,094,073
N78-32396* c 35 ..... NASA-CASE-MFS-23363-1
US-PATENT-APPL-SN-730046
US-PATENT-CLASS-324-173
US-PATENT-CLASS-324-207
US-PATENT-4,093,917
N78-32397* c 35 ..... NASA-CASE-LAR-11617-2
US-PATENT-APPL-SN-547072
US-PATENT-APPL-SN-668771
US-PATENT-CLASS-324-249
US-PATENT-4,088,954
N78-32447* c 38 ..... NASA-CASE-MFS-23114-1
US-PATENT-APPL-SN-686331
US-PATENT-CLASS-350-3.5
US-PATENT-CLASS-356-72
US-PATENT-CLASS-356-73
US-PATENT-CLASS-73-603
US-PATENT-4,093,382
N78-32539* c 44 ..... NASA-CASE-LAR-11208-1
US-PATENT-APPL-SN-710036
US-PATENT-CLASS-417-88
US-PATENT-CLASS-60-39.07
US-PATENT-CLASS-60-39.14
US-PATENT-CLASS-60-39.33
US-PATENT-CLASS-98-1.5
US-PATENT-4,091,613
N78-32542* c 44 ..... NASA-CASE-KSC-11034-1
US-PATENT-APPL-SN-782481
US-PATENT-CLASS-60-641
US-PATENT-CLASS-60-671
US-PATENT-4,087,975
N78-32720* c 54 ..... NASA-CASE-MSC-14805-1
US-PATENT-APPL-SN-688856
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US-PATENT-CLASS-340-262
US-PATENT-CLASS-340-279
US-PATENT-CLASS-340-285
US-PATENT-CLASS-340-309.1
US-PATENT-4,092,633
N78-32721* c 54 ..... NASA-CASE-ARC-11059-1
US-PATENT-APPL-SN-753978
US-PATENT-CLASS-128-142.7
US-PATENT-CLASS-62-259
US-PATENT-4,095,593
N78-32848* c 73 ..... NASA-CASE-GSC-12083-1
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US-PATENT-CLASS-350-170
US-PATENT-CLASS-350-173
US-PATENT-CLASS-350-174
US-PATENT-CLASS-350-286
US-PATENT-CLASS-350-320
US-PATENT-4,093,354
N78-32854* c 74 ..... NASA-CASE-ARC-11039-1
US-PATENT-APPL-SN-750655
US-PATENT-CLASS-351-166
US-PATENT-CLASS-427-164
US-PATENT-CLASS-427-302
US-PATENT-CLASS-427-322
US-PATENT-CLASS-427-38
US-PATENT-CLASS-427-387
US-PATENT-CLASS-427-41
US-PATENT-CLASS-427-44
US-PATENT-CLASS-428-412
US-PATENT-CLASS-428-447
US-PATENT-4,096,315
N78-33101* c 07 ..... NASA-CASE-LEW-12496-1
US-PATENT-APPL-SN-668971
US-PATENT-CLASS-29-463
US-PATENT-CLASS-416-214A
US-PATENT-CLASS-416-244A
US-PATENT-CLASS-74-572
US-PATENT-4,097,194
N78-33228* c 27 ..... NASA-CASE-NPO-08835-1
US-PATENT-APPL-SN-588721
US-PATENT-CLASS-260-28.5
US-PATENT-3,527,724
N78-33526* c 44 ..... NASA-CASE-NPO-13763-1
US-PATENT-APPL-SN-718268
US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-1A
US-PATENT-CLASS-123-3
US-PATENT-4,112,875
N78-33913* c 74 ..... NASA-CASE-NPO-10233-1
US-PATENT-APPL-SN-716885
US-PATENT-CLASS-250-218
US-PATENT-CLASS-250-227
US-PATENT-CLASS-250-239
US-PATENT-CLASS-356-208
US-PATENT-3,573,470
N79-10057* c 07 ..... NASA-CASE-LEW-12232-1
US-PATENT-APPL-SN-776029
US-PATENT-CLASS-415-115
US-PATENT-CLASS-415-116
US-PATENT-CLASS-60-39.14
US-PATENT-4,117,669
N79-10162* c 25 ..... NASA-CASE-ARC-11053-1
US-PATENT-APPL-SN-814378
US-PATENT-CLASS-23-252R
US-PATENT-CLASS-423-581
US-PATENT-4,101,644
N79-10163* c 25 ..... NASA-CASE-NPO-13274-1
US-PATENT-APPL-SN-406296
US-PATENT-CLASS-204-180S
US-PATENT-CLASS-204-299
US-PATENT-3,932,262
N79-10262* c 32 ..... NASA-CASE-NPO-13941-1
US-PATENT-APPL-SN-774384
US-PATENT-CLASS-307-233R
US-PATENT-CLASS-324-77B
US-PATENT-CLASS-324-77C
US-PATENT-4,118,666
N79-10263* c 32 ..... NASA-CASE-MSC-12743-1
US-PATENT-APPL-SN-765167
US-PATENT-CLASS-325-41
US-PATENT-CLASS-340-146.1AX
US-PATENT-CLASS-340-146.1E
US-PATENT-4,100,531
N79-10264* c 32 ..... NASA-CASE-MFS-22234-1
US-PATENT-APPL-SN-730778
US-PATENT-CLASS-343-6R
US-PATENT-CLASS-343-9
US-PATENT-4,118,701
N79-10337* c 33 ..... NASA-CASE-KSC-11018-1
US-PATENT-APPL-SN-782693
US-PATENT-CLASS-324-133
US-PATENT-CLASS-324-72
US-PATENT-CLASS-324-96
US-PATENT-4,100,487
N79-10338* c 33 ..... NASA-CASE-GSC-12228-1
US-PATENT-APPL-SN-858764
US-PATENT-CLASS-324-57R
US-PATENT-CLASS-324-83D
US-PATENT-CLASS-324-85
US-PATENT-CLASS-328-163
US-PATENT-4,118,665
N79-10339* c 33 ..... NASA-CASE-LEW-12013-1
US-PATENT-APPL-SN-768795
US-PATENT-CLASS-301-82
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-330-43
US-PATENT-4,118,671
N79-10389* c 35 ..... NASA-CASE-MFS-23461-1
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US-PATENT-CLASS-250-475
US-PATENT-CLASS-252-301.1R
US-PATENT-CLASS-252-301.16
US-PATENT-CLASS-96-27R
US-PATENT-CLASS-96-60R
US-PATENT-4,101,780
N79-10390* c 35 ..... NASA-CASE-LAR-12260-1
US-PATENT-CLASS-73-579
US-PATENT-CLASS-73-589
US-PATENT-4,117,731
N79-10391* c 35 ..... NASA-CASE-NPO-13862-1
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US-PATENT-CLASS-324-77K
US-PATENT-CLASS-343-17.2PC
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5W
US-PATENT-4,101,891
N79-10418* c 37 ..... NASA-CASE-LEW-12569-1
US-PATENT-APPL-SN-792069
US-PATENT-CLASS-308-DIG.1
US-PATENT-CLASS-308-121
US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-163
US-PATENT-CLASS-308-172
US-PATENT-CLASS-308-5R
US-PATENT-CLASS-308-9
US-PATENT-4,099,799
N79-10419* c 37 ..... NASA-CASE-FRC-10111-1
US-PATENT-APPL-SN-713027
US-PATENT-CLASS-30-90.6
US-PATENT-CLASS-81-9.5R
US-PATENT-4,117,749

N79-10420* c 37 ..... NASA-CASE-NPO-14014-1
US-PATENT-APPL-SN-826204
US-PATENT-CLASS-188-1C
US-PATENT-CLASS-256-1
US-PATENT-CLASS-256-13.1
US-PATENT-4,118,014

N79-10421* c 37 ..... NASA-CASE-MFS-23620-1
US-PATENT-APPL-SN-799023
US-PATENT-CLASS-219-124.2-2
US-PATENT-CLASS-219-124.32
US-PATENT-CLASS-219-125.1
US-PATENT-CLASS-228-8
US-PATENT-4,118,620

N79-10422* c 37 ..... NASA-CASE-MFS-23051-1
US-PATENT-APPL-SN-632111
US-PATENT-CLASS-15-230.16
US-PATENT-CLASS-15-230.17
US-PATENT-CLASS-29-125
US-PATENT-CLASS-428-133
US-PATENT-CLASS-74-572
US-PATENT-4,098,142

N79-10513* c 44 ..... NASA-CASE-NPO-13732-1
US-PATENT-APPL-SN-765138
US-PATENT-CLASS-429-13
US-PATENT-CLASS-429-41
US-PATENT-CLASS-429-42
US-PATENT-4,100,331

N79-10693* c 51 ..... NASA-CASE-MSC-16098-1
US-PATENT-APPL-SN-792068
US-PATENT-CLASS-210-23F
US-PATENT-CLASS-210-433M
US-PATENT-CLASS-210-96M
US-PATENT-4,118,315

N79-10694* c 51 ..... NASA-CASE-GSC-12173-1
US-PATENT-APPL-SN-806440
US-PATENT-CLASS-165-2
US-PATENT-CLASS-165-30
US-PATENT-CLASS-195-1.8
US-PATENT-CLASS-219-299
US-PATENT-CLASS-219-302
US-PATENT-CLASS-62-514R
US-PATENT-CLASS-62-78
US-PATENT-4,117,881

N79-10724* c 52 ..... NASA-CASE-ARC-10985-1
US-PATENT-APPL-SN-769148
US-PATENT-CLASS-128-2.05R
US-PATENT-CLASS-358-111
US-PATENT-CLASS-358-96
US-PATENT-CLASS-364-417
US-PATENT-4,101,961

N79-10969* c 89 ..... NASA-CASE-MFS-23675-1
US-PATENT-APPL-SN-820498
US-PATENT-CLASS-350-294
US-PATENT-CLASS-350-55
US-PATENT-4,101,195

N79-11108* c 18 ..... NASA-CASE-MFS-23579-1
US-PATENT-APPL-SN-829316
US-PATENT-CLASS-228-13
US-PATENT-CLASS-228-15.1
US-PATENT-CLASS-228-173
US-PATENT-CLASS-244-159
US-PATENT-4,122,991

N79-11151* c 25 ..... NASA-CASE-NPO-13958-1
US-PATENT-APPL-SN-745384
US-PATENT-CLASS-126-91A
US-PATENT-CLASS-431-10
US-PATENT-CLASS-431-208
US-PATENT-CLASS-432-223
US-PATENT-CLASS-432-29
US-PATENT-4,104,018

N79-11152* c 25 ..... NASA-CASE-NPO-13904-1
US-PATENT-APPL-SN-730468
US-PATENT-CLASS-208-10
US-PATENT-CLASS-208-8
US-PATENT-CLASS-302-66
US-PATENT-CLASS-44-51
US-PATENT-4,121,995

N79-11215* # c 27 ..... NASA-CASE-ARC-11170-1
US-PATENT-APPL-SN-956161

N79-11231* c 28 ..... NASA-CASE-NPO-13858-1
NASA-CASE-NPO-13859-1
US-PATENT-APPL-SN-740153
US-PATENT-CLASS-102-28R
US-PATENT-4,103,619

N79-11246* c 31 ..... NASA-CASE-LAR-12147-1
US-PATENT-APPL-SN-733825
US-PATENT-CLASS-73-159
US-PATENT-CLASS-73-95
US-PATENT-4,103,550

N79-11264* c 32 ..... NASA-CASE-MSC-14939-1
US-PATENT-APPL-SN-765165
US-PATENT-CLASS-343-844
US-PATENT-CLASS-343-854
US-PATENT-4,119,972

N79-11265* c 32 ..... NASA-CASE-GSC-12150-1
US-PATENT-APPL-SN-736286
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-67
US-PATENT-CLASS-343-17.7
US-PATENT-4,119,964

N79-11313* c 33 ..... NASA-CASE-MSC-16461-1
US-PATENT-APPL-SN-858765
US-PATENT-CLASS-307-232
US-PATENT-CLASS-328-133
US-PATENT-CLASS-331-1A
US-PATENT-CLASS-331-14
US-PATENT-CLASS-331-23
US-PATENT-CLASS-331-27
US-PATENT-4,119,926

N79-11314* c 33 ..... NASA-CASE-NPO-13064-1
US-PATENT-APPL-SN-297436
US-PATENT-CLASS-357-22
US-PATENT-3,860,946

N79-11315* c 33 ..... NASA-CASE-KSC-11031-1
US-PATENT-APPL-SN-782482
US-PATENT-CLASS-324-102
US-PATENT-CLASS-324-113
US-PATENT-CLASS-324-133
US-PATENT-4,105,966

N79-11402* c 37 ..... NASA-CASE-MSC-16043-1
US-PATENT-APPL-SN-750792
US-PATENT-CLASS-137-614.06
US-PATENT-CLASS-137-637.05
US-PATENT-CLASS-251-149.9
US-PATENT-CLASS-285-326
US-PATENT-CLASS-285-359
US-PATENT-4,103,712

N79-11403* c 37 ..... NASA-CASE-LEW-12793-1
US-PATENT-APPL-SN-745766
US-PATENT-CLASS-60.39.08
US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
US-PATENT-4,104,873

N79-11404* c 37 ..... NASA-CASE-MFS-23447-1
US-PATENT-APPL-SN-736909
US-PATENT-CLASS-308-194
US-PATENT-CLASS-308-72
US-PATENT-4,105,261

N79-11405* c 37 ..... NASA-CASE-NPO-13828-1
US-PATENT-APPL-SN-672636
US-PATENT-CLASS-123-148DC
US-PATENT-CLASS-123-148E
US-PATENT-CLASS-315-209CD
US-PATENT-CLASS-315-209SC
US-PATENT-CLASS-315-241R
US-PATENT-4,122,816

N79-11467* c 44 ..... NASA-CASE-LEW-12819-1
US-PATENT-APPL-SN-803823
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US-PATENT-CLASS-136-89SJ
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-65
US-PATENT-CLASS-357-67
US-PATENT-4,104,084

N79-11468* c 44 ..... NASA-CASE-LEW-12775-1
US-PATENT-APPL-SN-799026
US-PATENT-CLASS-136-89
US-PATENT-CLASS-148-188
US-PATENT-CLASS-29-572
US-PATENT-CLASS-427-75
US-PATENT-4,104,091

N79-11469* c 44 ..... NASA-CASE-MFS-23518-1
US-PATENT-APPL-SN-829390
US-PATENT-CLASS-204-32
US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-37R
US-PATENT-CLASS-204-38B
US-PATENT-4,104,134

N79-11470* c 44 ..... NASA-CASE-NPO-14126-1
US-PATENT-APPL-SN-838336
US-PATENT-CLASS-204-157.1R
US-PATENT-CLASS-250-527
US-PATENT-4,105,517

N79-11471* c 44 ..... NASA-CASE-NPO-13817-1
US-PATENT-APPL-SN-801452
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US-PATENT-CLASS-126-271
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-299
US-PATENT-4,122,833

N79-11472* c 44 ..... NASA-CASE-LEW-12552-2
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US-PATENT-CLASS-427-126
US-PATENT-CLASS-427-261
US-PATENT-CLASS-427-343
US-PATENT-CLASS-427-398A
US-PATENT-CLASS-427-399
US-PATENT-CLASS-427-75
US-PATENT-CLASS-427-84
US-PATENT-4,122,214

N79-11865* c 74 ..... NASA-CASE-MFS-23513-1
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US-PATENT-CLASS-356-210
US-PATENT-4,102,580

N79-11920* c 76 ..... NASA-CASE-NPO-13918-1
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US-PATENT-CLASS-156-DIG.65
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617SP
US-PATENT-4,121,965

N79-12061* c 05 ..... NASA-CASE-FRC-10092-1
US-PATENT-APPL-SN-831634
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US-PATENT-CLASS-244-82
US-PATENT-CLASS-244-90R
US-PATENT-4,124,180

N79-12221* c 27 ..... NASA-CASE-MSC-12619-2
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US-PATENT-APPL-SN-786913
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US-PATENT-CLASS-244-160
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US-PATENT-CLASS-428-286
US-PATENT-CLASS-428-332
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US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-77
US-PATENT-CLASS-428-920
US-PATENT-4,124,732

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US-PATENT-CLASS-357-23
US-PATENT-CLASS-357-41
US-PATENT-CLASS-357-45
US-PATENT-CLASS-357-55
US-PATENT-4,119,996

N79-12331* c 33 ..... NASA-CASE-MSC-12662-1
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US-PATENT-CLASS-428-247
US-PATENT-CLASS-428-258
US-PATENT-CLASS-428-259
US-PATENT-4,107,363

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US-PATENT-APPL-SN-856461
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US-PATENT-CLASS-73-194VS
US-PATENT-4,122,712

N79-12541* c 44 ..... NASA-CASE-NPO-14100-1
US-PATENT-APPL-SN-861391
US-PATENT-CLASS-324-20R
US-PATENT-CLASS-324-22
US-PATENT-4,122,383

N79-12584* c 45 ..... NASA-CASE-MSC-16258-1
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US-PATENT-CLASS-210-60
US-PATENT-CLASS-210-63R
US-PATENT-CLASS-423-242
US-PATENT-CLASS-55-73
US-PATENT-4,123,355

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US-PATENT-CLASS-364-300
US-PATENT-CLASS-364-415
US-PATENT-CLASS-364-900
US-PATENT-4,122,518

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US-PATENT-CLASS-200-61
US-PATENT-CLASS-250-214AL
US-PATENT-CLASS-250-214R
US-PATENT-CLASS-315-153
US-PATENT-4,122,334

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US-PATENT-CLASS-343-118
US-PATENT-CLASS-343-7.4
US-PATENT-4,122,454

N79-13288* c 34 ..... NASA-CASE-LEW-12252-1
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US-PATENT-CLASS-165-169
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-267
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US-PATENT-CLASS-228-2.5
US-PATENT-CLASS-29-421E
US-PATENT-4,106,687
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US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-331-94.5PE
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US-PATENT-APPL-SN-772165
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US-PATENT-CLASS-35-12N
US-PATENT-CLASS-358-104
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US-PATENT-CLASS-416-160
US-PATENT-CLASS-416-162
US-PATENT-CLASS-416-167
US-PATENT-4,124,330
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US-PATENT-APPL-SN-753452
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US-PATENT-CLASS-415-200
US-PATENT-CLASS-415-201
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US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-39.31
US-PATENT-4,132,069
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US-PATENT-CLASS-60-226A
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US-PATENT-APPL-SN-779429
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US-PATENT-CLASS-244-90R
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US-PATENT-CLASS-106-84
US-PATENT-CLASS-252-518
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US-PATENT-CLASS-204-180S
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-424-12
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US-PATENT-CLASS-75-203
US-PATENT-CLASS-75-205
US-PATENT-CLASS-75-206
US-PATENT-CLASS-75-212
US-PATENT-CLASS-75-226
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US-PATENT-APPL-SN-767912
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US-PATENT-CLASS-428-411
US-PATENT-4,132,829
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US-PATENT-CLASS-149-19.92
US-PATENT-CLASS-149-20
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US-PATENT-CLASS-343-14
US-PATENT-CLASS-364-458
US-PATENT-CLASS-364-604
US-PATENT-CLASS-364-728
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US-PATENT-CLASS-343-5CM
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US-PATENT-CLASS-324-112
US-PATENT-CLASS-324-113
US-PATENT-CLASS-324-133
US-PATENT-CLASS-324-72
US-PATENT-4,112,357
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US-PATENT-CLASS-73-115
US-PATENT-4,111,041
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US-PATENT-APPL-SN-853679
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US-PATENT-CLASS-136-236
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US-PATENT-CLASS-73-714
US-PATENT-CLASS-73-721
US-PATENT-CLASS-73-756
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US-PATENT-APPL-SN-804035
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US-PATENT-CLASS-318-594
US-PATENT-CLASS-318-640
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US-PATENT-CLASS-416-61
US-PATENT-CLASS-74-586
US-PATENT-4,111,068
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US-PATENT-CLASS-81-180B
US-PATENT-CLASS-81-90B
US-PATENT-4,130,032
N79-14398* c 38 ..... NASA-CASE-MSC-19672-1
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US-PATENT-CLASS-310-336
US-PATENT-CLASS-73-632
US-PATENT-CLASS-73-641
US-PATENT-CLASS-73-644
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US-PATENT-CLASS-126-271
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US-PATENT-CLASS-188-269
US-PATENT-CLASS-303-92
US-PATENT-CLASS-415-9
US-PATENT-CLASS-416-2
US-PATENT-CLASS-74-572
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US-PATENT-APPL-SN-899123
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US-PATENT-CLASS-357-30
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US-PATENT-CLASS-350-320
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US-PATENT-CLASS-128-272
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US-PATENT-CLASS-195-1.8
US-PATENT-CLASS-206-439
US-PATENT-CLASS-210-DIG.23
US-PATENT-CLASS-422-41
US-PATENT-CLASS-422-48
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US-PATENT-CLASS-195-103.5L
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NASA-CASE-NPO-13944-1
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US-PATENT-CLASS-73-644
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US-PATENT-CLASS-181-213
US-PATENT-CLASS-181-222
US-PATENT-CLASS-181-293
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US-PATENT-CLASS-250-540
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US-PATENT-CLASS-346-74MT
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NASA-CASE-NPO-13247-1
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US-PATENT-CLASS-117-239
US-PATENT-CLASS-117-240
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US-PATENT-CLASS-428-375
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US-PATENT-CLASS-428-73
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US-PATENT-CLASS-62-514R
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N79-17133* c 33 ..... NASA-CASE-MFS-23659-1
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US-PATENT-4,135,127
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US-PATENT-CLASS-55-127

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US-PATENT-CLASS-55-242
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US-PATENT-CLASS-55-407
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US-PATENT-CLASS-356-407
US-PATENT-CLASS-356-416
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US-PATENT-CLASS-429-33
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N79-17314* c 44 ..... NASA-CASE-NPO-13652-1
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US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-4,133,697
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NASA-CASE-NPO-13848-2
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US-PATENT-CLASS-210-28
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US-PATENT-CLASS-308-DIG.9
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US-PATENT-CLASS-308-171
US-PATENT-CLASS-308-78
US-PATENT-CLASS-308-87R
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US-PATENT-CLASS-427-376C
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US-PATENT-APPL-SN-779883
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US-PATENT-CLASS-428-451
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US-PATENT-CLASS-340-664
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US-PATENT-CLASS-331-94.5P
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US-PATENT-CLASS-415-200
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US-PATENT-CLASS-165-105
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US-PATENT-CLASS-60-572
US-PATENT-CLASS-60-641
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US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-591
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US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2V
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US-PATENT-APPL-SN-017885
N79-19447* c 44 ..... NASA-CASE-XGS-00829-1
US-PATENT-APPL-SN-286824
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US-PATENT-3,262,694
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US-PATENT-CLASS-323-20
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US-PATENT-CLASS-325-63
US-PATENT-CLASS-343-179
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US-PATENT-CLASS-358-81
US-PATENT-CLASS-364-713
US-PATENT-4,139,862
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US-PATENT-CLASS-310-46
US-PATENT-CLASS-310-82
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US-PATENT-CLASS-415-143
US-PATENT-CLASS-60-645
US-PATENT-CLASS-60-649
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US-PATENT-CLASS-313-35
US-PATENT-CLASS-62-268
US-PATENT-CLASS-62-376
US-PATENT-CLASS-62-514R
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US-PATENT-CLASS-74-705
US-PATENT-CLASS-74-764
US-PATENT-4,141,259
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US-PATENT-CLASS-364-900
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US-PATENT-CLASS-310-26
US-PATENT-CLASS-310-322
US-PATENT-CLASS-310-334
US-PATENT-CLASS-318-116
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
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US-PATENT-CLASS-354-77
US-PATENT-CLASS-356-129
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US-PATENT-CLASS-250-483
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US-PATENT-CLASS-317-245
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US-PATENT-CLASS-195-127
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-2041-195B
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US-PATENT-APPL-SN-860405
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US-PATENT-CLASS-148-12F
US-PATENT-CLASS-148-2
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US-PATENT-CLASS-528-422
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N79-22373* c 33 ..... NASA-CASE-KSC-11008-1
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US-PATENT-CLASS-324-99D
US-PATENT-CLASS-330-2
US-PATENT-CLASS-330-51
US-PATENT-CLASS-330-86
US-PATENT-4,109,213

N79-22474* c 37 ..... NASA-CASE-MFS-23646-1
US-PATENT-APPL-SN-891372
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US-PATENT-CLASS-220-266
US-PATENT-CLASS-239-265.15
US-PATENT-CLASS-239-288
US-PATENT-CLASS-277-192
US-PATENT-4,146,180

N79-22475* c 37 ..... NASA-CASE-LEW-11873-1
US-PATENT-APPL-SN-814006
US-PATENT-CLASS-277-62
US-PATENT-CLASS-277-96.1
US-PATENT-4,145,058

N79-22537* c 39 ..... NASA-CASE-LAR-12027-1
US-PATENT-APPL-SN-889670
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US-PATENT-CLASS-73-810
US-PATENT-4,145,933

N79-22679* c 46 ..... NASA-CASE-NPO-14112-1
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US-PATENT-CLASS-175-1
US-PATENT-CLASS-181-106
US-PATENT-CLASS-181-117
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US-PATENT-CLASS-244-83G
US-PATENT-CLASS-318-585
US-PATENT-CLASS-318-616
US-PATENT-CLASS-364-434
US-PATENT-4,148,452

N79-23310* c 32 ..... NASA-CASE-KSC-11023-1
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US-PATENT-CLASS-179-27CA
US-PATENT-CLASS-179-84VF
US-PATENT-4,153,818

N79-23345* c 33 ..... NASA-CASE-FRC-10116-1
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US-PATENT-CLASS-323-22T
US-PATENT-4,151,456

N79-23481* c 44 ..... NASA-CASE-MFS-23349-1
US-PATENT-APPL-SN-823061
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US-PATENT-CLASS-126-271
US-PATENT-4,148,295

N79-23555* c 46 ..... NASA-CASE-NPO-14255-1
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US-PATENT-CLASS-181-120
US-PATENT-CLASS-340-12R
US-PATENT-4,153,134

N79-23753* c 71 ..... NASA-CASE-NPO-14134-1
US-PATENT-APPL-SN-861392
US-PATENT-CLASS-179-1DM
US-PATENT-CLASS-179-1MF
US-PATENT-CLASS-181-148
US-PATENT-CLASS-340-8LF
US-PATENT-4,149,034

N79-23798* c 76 ..... NASA-CASE-NPO-13969-1
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US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-423-345
US-PATENT-4,152,194

N79-24062* c 24 ..... NASA-CASE-ARC-11169-1
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US-PATENT-CLASS-428-366
US-PATENT-4,148,962

N79-24073* c 25 ..... NASA-CASE-LAR-11922-1
US-PATENT-APPL-SN-856460
US-PATENT-CLASS-195-127
US-PATENT-CLASS-204-195B
US-PATENT-4,149,938

N79-24203* c 32 ..... NASA-CASE-LAR-12375-1
US-PATENT-APPL-SN-900842
US-PATENT-CLASS-73-647
US-PATENT-CLASS-73-724
US-PATENT-4,149,423

N79-24210* c 32 ..... NASA-CASE-NPO-13641-1
US-PATENT-APPL-SN-777983
US-PATENT-CLASS-343-100TD
US-PATENT-4,148,031

N79-24254* c 33 ..... NASA-CASE-NPO-14000-1
US-PATENT-APPL-SN-876431
US-PATENT-CLASS-307-82
US-PATENT-CLASS-363-56
US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-97
US-PATENT-4,150,425

N79-24257* c 33 ..... NASA-CASE-NPO-14056-1
US-PATENT-APPL-SN-833637
US-PATENT-CLASS-363-134
US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-95
US-PATENT-4,149,233

N79-24285* c 34 ..... NASA-CASE-MSC-16841-1
US-PATENT-APPL-SN-893382
US-PATENT-CLASS-210-108
US-PATENT-CLASS-210-142
US-PATENT-CLASS-73-714
US-PATENT-4,151,086

N79-24431* c 44 ..... NASA-CASE-NPO-13652-2
US-PATENT-APPL-SN-848794
US-PATENT-CLASS-228-5.1
US-PATENT-CLASS-228-6
US-PATENT-CLASS-29-57-4
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-739
US-PATENT-CLASS-29-809
US-PATENT-4,149,665

N79-24432* c 44 ..... NASA-CASE-NPO-13579-3
US-PATENT-APPL-SN-762363
US-PATENT-CLASS-126-270
US-PATENT-CLASS-264-1
US-PATENT-CLASS-264-33
US-PATENT-CLASS-264-34
US-PATENT-CLASS-264-35
US-PATENT-CLASS-264-510
US-PATENT-CLASS-264-516
US-PATENT-CLASS-264-70
US-PATENT-CLASS-264-71
US-PATENT-CLASS-350-292
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US-PATENT-CLASS-350-296
US-PATENT-CLASS-405-229
US-PATENT-CLASS-405-263
US-PATENT-4,149,817

N79-24433* c 44 ..... NASA-CASE-NPO-13579-2
US-PATENT-APPL-SN-762362
US-PATENT-CLASS-126-271
US-PATENT-CLASS-126-400
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-299
US-PATENT-4,149,521

N79-24651* c 54 ..... NASA-CASE-ARC-11058-2
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US-PATENT-APPL-SN-883094
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-235
US-PATENT-4,091,464
US-PATENT-4,151,612

N79-24652* c 54 ..... NASA-CASE-NPO-13906-1
US-PATENT-APPL-SN-837259
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-3-12.5
US-PATENT-CLASS-414-6
US-PATENT-4,149,278

N79-24976* c 05 ..... NASA-CASE-LEW-11890-1
US-PATENT-APPL-SN-891244
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-53B
US-PATENT-4,154,256

N79-25142* c 24 ..... NASA-CASE-MSC-12737-1
US-PATENT-APPL-SN-788045
US-PATENT-CLASS-102-105
US-PATENT-CLASS-244-121
US-PATENT-CLASS-244-163
US-PATENT-CLASS-427-350
US-PATENT-CLASS-427-372A
US-PATENT-CLASS-428-137
US-PATENT-CLASS-428-282
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-920
US-PATENT-4,151,800

N79-25143* c 24 ..... NASA-CASE-GSC-11577-3
US-PATENT-APPL-SN-322997
US-PATENT-APPL-SN-506803
US-PATENT-APPL-SN-645502
US-PATENT-CLASS-156-89
US-PATENT-CLASS-220-2.2
US-PATENT-CLASS-65-43
US-PATENT-3,859,714
US-PATENT-4,155,475

N79-25443* c 43 ..... NASA-CASE-MFS-23720-3
US-PATENT-APPL-SN-848420
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,154,084

N79-25481* c 44 ..... NASA-CASE-LEW-12972-1
US-PATENT-APPL-SN-897829
US-PATENT-CLASS-429-253
US-PATENT-CLASS-526-7
US-PATENT-CLASS-526-9
US-PATENT-4,154,912

N79-25482* c 44 ..... NASA-CASE-NPO-14199-1
NASA-CASE-NPO-14200-1
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US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-136-89PC
US-PATENT-CLASS-136-89SJ
US-PATENT-4,153,476

N79-26075* c 12 ..... NASA-CASE-MFS-23460-1
US-PATENT-APPL-SN-746578
US-PATENT-CLASS-13-20
US-PATENT-CLASS-13-22
US-PATENT-CLASS-13-24
US-PATENT-CLASS-219-410
US-PATENT-4,158,742

N79-26100* c 15 ..... NASA-CASE-ARC-11104-1
US-PATENT-APPL-SN-854920
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US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-260-830S
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-145
US-PATENT-CLASS-264-151
US-PATENT-CLASS-264-175
US-PATENT-CLASS-264-236
US-PATENT-CLASS-428-220
US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-414
US-PATENT-CLASS-428-418
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-920
US-PATENT-4,156,752

N79-26372* c 35 ..... NASA-CASE-LAR-11889-1
US-PATENT-APPL-SN-662182
US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-178R
US-PATENT-4,156,548

N79-26439* c 43 ..... NASA-CASE-MFS-23726-1
US-PATENT-APPL-SN-848418
US-PATENT-CLASS-105-161
US-PATENT-CLASS-299-1
US-PATENT-CLASS-33-1N
US-PATENT-CLASS-33-1Q
US-PATENT-CLASS-33-174L
US-PATENT-CLASS-364-560
US-PATENT-4,156,971

N79-26474* c 44 ..... NASA-CASE-LEW-13150-1
US-PATENT-APPL-SN-914260
US-PATENT-CLASS-429-101
US-PATENT-CLASS-429-15
US-PATENT-4,159,366

N79-26475* c 44 ..... NASA-CASE-MFS-23540-1
US-PATENT-APPL-SN-863773
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-577
US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-580
US-PATENT-CLASS-357-45
US-PATENT-4,156,309

N79-26771* c 52 ..... NASA-CASE-ARC-10994-2
US-PATENT-APPL-SN-759965
US-PATENT-CLASS-128-660
US-PATENT-CLASS-73-626
US-PATENT-4,154,230

N79-26772* c 52 ..... NASA-CASE-KSC-11069-1
US-PATENT-APPL-SN-876438
US-PATENT-CLASS-3-1.9
US-PATENT-CLASS-3-12
US-PATENT-CLASS-3-2
US-PATENT-4,158,895

N79-27836* c 52 ..... NASA-CASE-NPO-13910-1
US-PATENT-APPL-SN-712270
US-PATENT-CLASS-128-329R
US-PATENT-CLASS-128-639
US-PATENT-4,154,228

N79-28253* c 25 ..... NASA-CASE-NPO-13650-1
US-PATENT-APPL-SN-704468
US-PATENT-CLASS-118-49
US-PATENT-CLASS-23-252R
US-PATENT-CLASS-248
US-PATENT-CLASS-253
US-PATENT-CLASS-337
US-PATENT-CLASS-349
US-PATENT-CLASS-423-33-5
US-PATENT-CLASS-427-95
US-PATENT-4,033,286

N79-28307* c 27 ..... NASA-CASE-LEW-12053-2
US-PATENT-APPL-SN-796263
US-PATENT-CLASS-260-37N
US-PATENT-CLASS-260-42
US-PATENT-CLASS-260-53
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-127
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-221
US-PATENT-CLASS-528-223

US-PATENT-CLASS-528-225
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US-PATENT-CLASS-528-338
US-PATENT-CLASS-528-342
US-PATENT-CLASS-544-193
US-PATENT-4,159,262

N79-28342* c 28 ..... NASA-CASE-NPO-14260-1
US-PATENT-APPL-SN-861390
US-PATENT-CLASS-149-19.4
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-20
US-PATENT-4,158,583

N79-28370* c 31 ..... NASA-CASE-MFS-23721-1
US-PATENT-APPL-SN-847277
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-5NA
US-PATENT-4,161,731

N79-28415* c 33 ..... NASA-CASE-MSC-16697-1
US-PATENT-APPL-SN-885067
US-PATENT-CLASS-307-119
US-PATENT-CLASS-307-98
US-PATENT-CLASS-361-170
US-PATENT-4,161,661

N79-28416* c 33 ..... NASA-CASE-GSC-12171-1
US-PATENT-APPL-SN-878542
US-PATENT-CLASS-343-909
US-PATENT-4,160,254

N79-28527* c 35 ..... NASA-CASE-NPO-13953-1
US-PATENT-APPL-SN-880727
US-PATENT-CLASS-356-237
US-PATENT-CLASS-356-404
US-PATENT-4,160,601

N79-28549* c 37 ..... NASA-CASE-GSC-12297-1
US-PATENT-APPL-SN-880838
US-PATENT-CLASS-165-105
US-PATENT-CLASS-357-74
US-PATENT-CLASS-357-79
US-PATENT-CLASS-357-81
US-PATENT-CLASS-357-82
US-PATENT-CLASS-357-83
US-PATENT-4,161,747

N79-28550* c 37 ..... NASA-CASE-GSC-12274-1
US-PATENT-APPL-SN-909100
US-PATENT-CLASS-251-7
US-PATENT-CLASS-72-436
US-PATENT-CLASS-72-451
US-PATENT-CLASS-72-470
US-PATENT-4,159,634

N79-28551* c 37 ..... NASA-CASE-ARC-11052-1
US-PATENT-APPL-SN-826202
US-PATENT-CLASS-414-4
US-PATENT-4,160,508

N79-31228* c 09 ..... NASA-CASE-LAR-12149-2
US-PATENT-APPL-SN-829314
US-PATENT-APPL-SN-928131
US-PATENT-CLASS-35-12E
US-PATENT-CLASS-35-12H
US-PATENT-4,164,079

N79-31347* c 24 ..... NASA-CASE-GSC-12303-1
US-PATENT-APPL-SN-862880
US-PATENT-CLASS-106-74
US-PATENT-CLASS-106-84
US-PATENT-4,162,169

N79-31523* c 34 ..... NASA-CASE-GSC-12253-1
US-PATENT-APPL-SN-853677
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-32
US-PATENT-CLASS-244-1R
US-PATENT-CLASS-244-163
US-PATENT-4,162,701

N79-31706* c 43 ..... NASA-CASE-MFS-23725-1
US-PATENT-APPL-SN-848793
US-PATENT-CLASS-250-253
US-PATENT-CLASS-250-272
US-PATENT-4,165,460

N79-31752* c 44 ..... NASA-CASE-NPO-14205-1
US-PATENT-APPL-SN-920879
US-PATENT-CLASS-106-1
US-PATENT-CLASS-106-1.2
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-252-514
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-589
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-65
US-PATENT-CLASS-357-67
US-PATENT-CLASS-427-88
US-PATENT-4,163,678

N79-31753* c 44 ..... NASA-CASE-NPO-14467-1
US-PATENT-APPL-SN-946994
US-PATENT-CLASS-136-89PC
US-PATENT-4,162,928

N79-33316* c 27 ..... NASA-CASE-LAR-12054-1
US-PATENT-APPL-SN-839963
US-PATENT-CLASS-264-137
US-PATENT-CLASS-428-474
US-PATENT-CLASS-528-229
US-PATENT-4,166,170

N79-33392* c 33 ..... NASA-CASE-XMF-04494-1
US-PATENT-APPL-SN-547643
US-PATENT-CLASS-200-83
US-PATENT-3,378,657

N79-33393* c 33 ..... NASA-CASE-XMS-01244-1
US-PATENT-APPL-SN-20370
US-PATENT-CLASS-200-114
US-PATENT-3,123,692

N79-33449* c 35 ..... NASA-CASE-XGS-01245-1
US-PATENT-APPL-SN-134619
US-PATENT-CLASS-338-18
US-PATENT-3,119,086

N79-33450* c 35 ..... NASA-CASE-XGS-01293-1
US-PATENT-APPL-SN-150690
US-PATENT-CLASS-73-400
US-PATENT-3,190,124

N79-33467* c 37 ..... NASA-CASE-XMS-01077-1
US-PATENT-APPL-SN-228049
US-PATENT-CLASS-312-319
US-PATENT-3,123,418

N79-33468* c 37 ..... NASA-CASE-HQN-00573-1
US-PATENT-APPL-SN-129379
US-PATENT-CLASS-137-14
US-PATENT-3,134,389

N79-33469* c 37 ..... NASA-CASE-XGS-01286-1
US-PATENT-APPL-SN-142583
US-PATENT-CLASS-251-172
US-PATENT-3,233,862

N79-34011* c 74 ..... NASA-CASE-NPO-14066-1
US-PATENT-APPL-SN-827464
US-PATENT-CLASS-250-216
US-PATENT-CLASS-250-551
US-PATENT-4,166,959

N80-10278* c 20 ..... NASA-CASE-MFS-23642-1
US-PATENT-APPL-SN-923758
US-PATENT-CLASS-137-177
US-PATENT-CLASS-137-209
US-PATENT-CLASS-137-574
US-PATENT-CLASS-137-576
US-PATENT-CLASS-137-590
US-PATENT-CLASS-244-135R
US-PATENT-4,168,718

N80-10358* c 27 ..... NASA-CASE-MSC-14903-2
US-PATENT-APPL-SN-706424
US-PATENT-APPL-SN-907435
US-PATENT-CLASS-260-926
US-PATENT-4,092,466
US-PATENT-4,168,287

N80-10374* c 28 ..... NASA-CASE-NPO-13849-1
NASA-CASE-NPO-13907-1
US-PATENT-APPL-SN-668783
US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-179R
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-288R
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-DIG.8
US-PATENT-CLASS-48-10-3
US-PATENT-CLASS-48-102A
US-PATENT-CLASS-48-107
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-61
US-PATENT-CLASS-60-300
US-PATENT-CLASS-60-606
US-PATENT-4,033,133

N80-10494* c 37 ..... NASA-CASE-NPO-14384-1
US-PATENT-APPL-SN-880728
US-PATENT-CLASS-210-186
US-PATENT-CLASS-210-340
US-PATENT-CLASS-239-102
US-PATENT-CLASS-239-302
US-PATENT-CLASS-422-187
US-PATENT-CLASS-422-199
US-PATENT-CLASS-422-208
US-PATENT-CLASS-422-235
US-PATENT-CLASS-422-242
US-PATENT-CLASS-423-350
US-PATENT-4,169,129

N80-10507* c 39 ..... NASA-CASE-NPO-14192-1
US-PATENT-APPL-SN-830562
US-PATENT-CLASS-181-102
US-PATENT-CLASS-181-105
US-PATENT-CLASS-367-26
US-PATENT-CLASS-467-28
US-PATENT-4,168,483

N80-10709* c 46 ..... NASA-CASE-NPO-14231-1
US-PATENT-APPL-SN-903019
US-PATENT-CLASS-175-78
US-PATENT-CLASS-73-155
US-PATENT-4,167,111

N80-10799* c 54 ..... NASA-CASE-MSC-16182-1
US-PATENT-APPL-SN-780938
US-PATENT-CLASS-128-142R
US-PATENT-CLASS-128-191R
US-PATENT-CLASS-128-212
US-PATENT-4,168,706

N80-14107* c 05 ..... NASA-CASE-ARC-11106-1
US-PATENT-APPL-SN-831633
US-PATENT-CLASS-415-199
US-PATENT-CLASS-416-228
US-PATENT-CLASS-416-238
US-PATENT-4,168,939

N80-14183* c 18 ..... NASA-CASE-GSC-12331-1
US-PATENT-APPL-SN-943088
US-PATENT-CLASS-343-880
US-PATENT-CLASS-343-883
US-PATENT-4,176,360

N80-14188* c 20 ..... NASA-CASE-XLE-02062-1
US-PATENT-APPL-SN-545793
US-PATENT-CLASS-60-203
US-PATENT-CLASS-60-259
US-PATENT-4,171,615

N80-14229* c 26 ..... NASA-CASE-NPO-14474-1
US-PATENT-APPL-SN-918537
US-PATENT-CLASS-423-149
US-PATENT-CLASS-423-293
US-PATENT-CLASS-423-348
US-PATENT-CLASS-423-417
US-PATENT-CLASS-423-625
US-PATENT-4,172,883

N80-14281* c 32 ..... NASA-CASE-NPO-13830-1
US-PATENT-APPL-SN-703905
US-PATENT-APPL-SN-834257
US-PATENT-CLASS-333-81R
US-PATENT-CLASS-343-18A
US-PATENT-CLASS-343-909
US-PATENT-4,164,718

N80-14330* c 33 ..... NASA-CASE-NPO-10857-1
US-PATENT-APPL-SN-888362
US-PATENT-CLASS-315-145
US-PATENT-CLASS-315-260
US-PATENT-CLASS-315-334
US-PATENT-3,635,537

N80-14332* c 33 ..... NASA-CASE-NPO-14350-1
US-PATENT-APPL-SN-921627
US-PATENT-CLASS-250-310
US-PATENT-CLASS-250-492A
US-PATENT-CLASS-324-158T
US-PATENT-4,172,228

N80-14371* c 35 ..... NASA-CASE-LAR-11690-1
US-PATENT-APPL-SN-928129
US-PATENT-CLASS-73-655
US-PATENT-CLASS-73-661
US-PATENT-4,171,645

N80-14384* c 36 ..... NASA-CASE-GSC-12237-1
US-PATENT-APPL-SN-837795
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-331-94.5P
US-PATENT-4,173,001

N80-14395* c 37 ..... NASA-CASE-XNP-08835-1
US-PATENT-APPL-SN-534931
US-PATENT-CLASS-204-224
US-PATENT-3,352,774

N80-14397* c 37 ..... NASA-CASE-MFS-23284-1
US-PATENT-APPL-SN-753103
US-PATENT-CLASS-204-180G
US-PATENT-CLASS-204-299R
US-PATENT-4,040,940

N80-14398* c 37 ..... NASA-CASE-GSC-12322-1
US-PATENT-APPL-SN-907436
US-PATENT-CLASS-244-161
US-PATENT-CLASS-269-156
US-PATENT-CLASS-294-113
US-PATENT-CLASS-294-86R
US-PATENT-CLASS-414-1
US-PATENT-4,173,324

N80-14423* c 43 ..... NASA-CASE-MFS-23720-2
US-PATENT-APPL-SN-848421
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,157,655

N80-14472* c 44 ..... NASA-CASE-LEW-12586-1
US-PATENT-APPL-SN-916655
US-PATENT-CLASS-307-63
US-PATENT-CLASS-307-66
US-PATENT-CLASS-323-15
US-PATENT-CLASS-323-19
US-PATENT-4,175,249

N80-14473* c 44 ..... NASA-CASE-MFS-23727-1
US-PATENT-APPL-SN-856465
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-442
US-PATENT-CLASS-350-295
US-PATENT-CLASS-350-296
US-PATENT-4,173,397

N80-14474* c 44 ..... NASA-CASE-NPO-13652-3

US-PATENT-APPL-SN-809890
US-PATENT-APPL-SN-891358
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-588
US-PATENT-CLASS-29-627
US-PATENT-4,133,697
US-PATENT-4,173,820

N80-14579* c 45 ..... NASA-CASE-NPO-14340-1
US-PATENT-APPL-SN-946992
US-PATENT-CLASS-210-57
US-PATENT-CLASS-210-63Z
US-PATENT-CLASS-422-9
US-PATENT-4,172,786

N80-14603* c 46 ..... NASA-CASE-NPO-14124-1
US-PATENT-APPL-SN-863024
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-4,170,776

N80-14684* c 52 ..... NASA-CASE-LEW-12955-1
US-PATENT-APPL-SN-829318
US-PATENT-CLASS-128-276
US-PATENT-4,157,718

N80-14687* c 52 ..... NASA-CASE-NPO-14101-1
US-PATENT-APPL-SN-772434
US-PATENT-CLASS-210-22
US-PATENT-CLASS-210-321B
US-PATENT-4,094,775

N80-14877* c 72 ..... NASA-CASE-NPO-14078-1
US-PATENT-APPL-SN-856466
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-423P
US-PATENT-4,158,775

N80-16116* c 25 ..... NASA-CASE-ARC-11107-1
US-PATENT-APPL-SN-883961
US-PATENT-CLASS-521-124
US-PATENT-CLASS-521-125
US-PATENT-CLASS-521-127
US-PATENT-CLASS-521-157
US-PATENT-CLASS-528-73
US-PATENT-4,177,333

N80-16158* c 27 ..... NASA-CASE-LAR-12099-1
US-PATENT-APPL-SN-906299
US-PATENT-CLASS-528-207
US-PATENT-CLASS-528-208
US-PATENT-4,180,648

N80-16163*# c 27 ..... NASA-CASE-NPO-14021-2
US-PATENT-APPL-SN-106188

N80-16261*# c 32 ..... NASA-CASE-NPO-14362-1
US-PATENT-APPL-SN-106118

N80-16321* c 36 ..... NASA-CASE-LAR-12176-1
US-PATENT-APPL-SN-929083
US-PATENT-CLASS-332-751
US-PATENT-CLASS-350-359
US-PATENT-CLASS-356-243
US-PATENT-CLASS-356-28
US-PATENT-4,176,950

N80-16452* c 44 ..... NASA-CASE-MFS-23518-3
US-PATENT-APPL-SN-829390
US-PATENT-APPL-SN-910793
US-PATENT-CLASS-126-417
US-PATENT-CLASS-126-901
US-PATENT-CLASS-428-629
US-PATENT-CLASS-428-650
US-PATENT-CLASS-428-658
US-PATENT-CLASS-428-675
US-PATENT-CLASS-428-680
US-PATENT-4,104,134
US-PATENT-4,177,325

N80-16714* c 51 ..... NASA-CASE-MSC-16260-1
US-PATENT-APPL-SN-876440
US-PATENT-CLASS-23-927
US-PATENT-CLASS-422-52
US-PATENT-CLASS-435-34
US-PATENT-4,176,007

N80-16715* c 51 ..... NASA-CASE-MFS-23883-1
US-PATENT-APPL-SN-017888
US-PATENT-CLASS-204-180R
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-424-12
US-PATENT-4,181,589

N80-16725* c 52 ..... NASA-CASE-NPO-14092-1
US-PATENT-APPL-SN-807597
US-PATENT-CLASS-128-DIG.9
US-PATENT-CLASS-128-348
US-PATENT-CLASS-128-6
US-PATENT-CLASS-138-103
US-PATENT-CLASS-138-133
US-PATENT-CLASS-138-33
US-PATENT-CLASS-219-201
US-PATENT-CLASS-219-522
US-PATENT-4,176,662

N80-18036* c 06 ..... NASA-CASE-FRC-11009-1
US-PATENT-APPL-SN-910708
US-PATENT-CLASS-340-177VA
US-PATENT-CLASS-73-188
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
US-PATENT-4,184,149

N80-18039* c 07 ..... NASA-CASE-LEW-12971-1
US-PATENT-APPL-SN-858936
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.27
US-PATENT-4,184,327

N80-18097* c 20 ..... NASA-CASE-MSC-18179-1
US-PATENT-APPL-SN-931218
US-PATENT-CLASS-60-632
US-PATENT-4,183,217

N80-18231* c 31 ..... NASA-CASE-NPO-14382-1
US-PATENT-APPL-SN-891373
US-PATENT-CLASS-261-118
US-PATENT-CLASS-422-224
US-PATENT-CLASS-423-350
US-PATENT-4,188,368

N80-18252* c 32 ..... NASA-CASE-NPO-14152-1
US-PATENT-APPL-SN-899828
US-PATENT-CLASS-178-58R
US-PATENT-CLASS-179-15BA
US-PATENT-4,187,394

N80-18253* c 32 ..... NASA-CASE-NPO-14328-1
NASA-CASE-NPO-14579-1
NASA-CASE-NPO-14590-1
US-PATENT-APPL-SN-956160
US-PATENT-CLASS-325-305
US-PATENT-CLASS-325-307
US-PATENT-CLASS-325-419
US-PATENT-4,186,347

N80-18285* c 33 ..... NASA-CASE-NPO-14229-1
US-PATENT-APPL-SN-835419
US-PATENT-APPL-SN-949886
US-PATENT-CLASS-200-153S
US-PATENT-CLASS-200-304
US-PATENT-CLASS-333-262
US-PATENT-4,187,416

N80-18286* c 33 ..... NASA-CASE-GSC-12347-1
US-PATENT-APPL-SN-868249
US-PATENT-CLASS-174-142
US-PATENT-CLASS-174-73R
US-PATENT-4,185,164

N80-18287* c 33 ..... NASA-CASE-NPO-14224-1
US-PATENT-APPL-SN-951829
US-PATENT-CLASS-310-306
US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100ST
US-PATENT-4,187,506

N80-18357* c 35 ..... NASA-CASE-NPO-14501-1
US-PATENT-APPL-SN-918535
US-PATENT-CLASS-264-40.4
US-PATENT-CLASS-73-343R
US-PATENT-CLASS-73-56
US-PATENT-4,185,493

N80-18358* c 35 ..... NASA-CASE-LAR-12269-1
US-PATENT-APPL-SN-934576
US-PATENT-CLASS-73-4R
US-PATENT-CLASS-73-40
US-PATENT-4,182,158

N80-18359* c 35 ..... NASA-CASE-GSC-12219-1
US-PATENT-APPL-SN-891356
US-PATENT-CLASS-325-363
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-356-216
US-PATENT-CLASS-73-355R
US-PATENT-4,178,100

N80-18364*# c 35 ..... NASA-CASE-NPO-13606-2
US-PATENT-APPL-SN-065676

N80-18372* c 36 ..... NASA-CASE-NPO-14254-1
US-PATENT-APPL-SN-876432
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-CLASS-333-24R
US-PATENT-4,187,470

N80-18393* c 37 ..... NASA-CASE-ARC-11157-1
US-PATENT-APPL-SN-935827
US-PATENT-CLASS-220-423
US-PATENT-CLASS-220-445
US-PATENT-CLASS-220-901
US-PATENT-4,184,609

N80-18400*# c 37 ..... NASA-CASE-NPO-12131-3
US-PATENT-APPL-SN-096255

N80-18498* c 43 ..... NASA-CASE-LAR-12344-1
US-PATENT-APPL-SN-945041
US-PATENT-CLASS-343-18B
US-PATENT-CLASS-343-18D
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5W
US-PATENT-4,184,155

N80-18550* c 44 ..... NASA-CASE-NPO-14303-1
NASA-CASE-NPO-14305-1
US-PATENT-APPL-SN-928133
US-PATENT-CLASS-156-104
US-PATENT-CLASS-156-278
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-303
US-PATENT-CLASS-156-312
US-PATENT-4,184,903

N80-18551* c 44 ..... NASA-CASE-NPO-14096-1
US-PATENT-APPL-SN-928128
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-404
US-PATENT-4,184,111

N80-18552* c 44 ..... NASA-CASE-LAR-11999-1
US-PATENT-APPL-SN-876299
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-250-231SE
US-PATENT-4,184,072

N80-18667* c 48 ..... NASA-CASE-MFS-23862-1
US-PATENT-APPL-SN-951423
US-PATENT-CLASS-73-170A
US-PATENT-4,184,368

N80-18690* c 52 ..... NASA-CASE-LEW-12723-1
US-PATENT-APPL-SN-829317
US-PATENT-CLASS-128-276
US-PATENT-CLASS-128-760
US-PATENT-4,184,491

N80-18691* c 52 ..... NASA-CASE-ARC-11120-1
US-PATENT-APPL-SN-796256
US-PATENT-CLASS-128-748
US-PATENT-CLASS-128-903
US-PATENT-CLASS-73-724
US-PATENT-4,186,749

N80-18951* c 76 ..... NASA-CASE-GSC-12291-1
US-PATENT-APPL-SN-906298
US-PATENT-CLASS-125-23R
US-PATENT-CLASS-269-21
US-PATENT-CLASS-51-235
US-PATENT-CLASS-83-152
US-PATENT-CLASS-83-870
US-PATENT-4,184,472

N80-20224* c 02 ..... NASA-CASE-LAR-12261-1
US-PATENT-APPL-SN-964009
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-205L
US-PATENT-4,188,823

N80-20334* c 25 ..... NASA-CASE-NPO-14079-1
US-PATENT-APPL-SN-958573
US-PATENT-CLASS-250-307
US-PATENT-CLASS-250-308
US-PATENT-4,194,115

N80-20402* c 28 ..... NASA-CASE-LEW-12081-2
US-PATENT-APPL-SN-676432
US-PATENT-APPL-SN-837794
US-PATENT-CLASS-149-1
US-PATENT-CLASS-423-648R
US-PATENT-4,193,827

N80-20448* c 32 ..... NASA-CASE-NPO-14480-1
US-PATENT-APPL-SN-910707
US-PATENT-CLASS-325-14
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-8
US-PATENT-CLASS-325-9
US-PATENT-4,189,675

N80-20487* c 33 ..... NASA-CASE-LEW-13148-1
US-PATENT-APPL-SN-964754
US-PATENT-CLASS-429-101
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-109
US-PATENT-4,192,910

N80-20559* c 35 ..... NASA-CASE-LAR-12304-1
US-PATENT-APPL-SN-928130
US-PATENT-CLASS-29-25.35
US-PATENT-CLASS-310-311
US-PATENT-CLASS-310-327
US-PATENT-CLASS-310-334
US-PATENT-CLASS-310-360
US-PATENT-4,195,244

N80-20560* c 35 ..... NASA-CASE-FRC-10093-1
US-PATENT-APPL-SN-878539
US-PATENT-CLASS-219-85CA
US-PATENT-CLASS-219-85CM
US-PATENT-CLASS-219-85R
US-PATENT-CLASS-338-2
US-PATENT-4,195,279

N80-20563* c 35 ..... NASA-CASE-NPO-14093-1
US-PATENT-APPL-SN-880729
US-PATENT-CLASS-356-346
US-PATENT-4,193,693

N80-20808* c 44 ..... NASA-CASE-NPO-14237-1
US-PATENT-APPL-SN-897831
US-PATENT-CLASS-126-263
US-PATENT-CLASS-149-15
US-PATENT-CLASS-149-37
US-PATENT-CLASS-220-429
US-PATENT-4,193,388

N80-20810* c 44 ..... NASA-CASE-LAR-12205-1
US-PATENT-APPL-SN-900843

US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-434
US-PATENT-CLASS-126-437
US-PATENT-CLASS-165-32
US-PATENT-4,192,290

N80-21138* c 74 ..... NASA-CASE-LAR-12178-1
US-PATENT-APPL-SN-953390
US-PATENT-CLASS-350-25
US-PATENT-CLASS-350-285
US-PATENT-CLASS-356-150
US-PATENT-CLASS-356-152
US-PATENT-4,189,234

N80-21140* c 74 ..... NASA-CASE-GSC-12357-1
US-PATENT-APPL-SN-943089
US-PATENT-CLASS-250-277CH
US-PATENT-CLASS-250-280
US-PATENT-CLASS-350-162R
US-PATENT-CLASS-356-334
US-PATENT-4,192,994

N80-21719* c 35 ..... NASA-CASE-GSC-12273-1
US-PATENT-APPL-SN-897830
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-170
US-PATENT-4,193,570

N80-21828* c 44 ..... NASA-CASE-MFS-23515-1
US-PATENT-APPL-SN-880726
US-PATENT-CLASS-415-101
US-PATENT-CLASS-415-2
US-PATENT-4,191,505

N80-23383* c 25 ..... NASA-CASE-ARC-11154-1
US-PATENT-APPL-SN-921626
US-PATENT-CLASS-521-146
US-PATENT-CLASS-521-55
US-PATENT-CLASS-521-918
US-PATENT-CLASS-525-4
US-PATENT-CLASS-55-66
US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-68
US-PATENT-CLASS-55-72
US-PATENT-4,198,792

N80-23419* c 26 ..... NASA-CASE-MFS-23816-1
US-PATENT-APPL-SN-974292
US-PATENT-CLASS-148-32
US-PATENT-CLASS-75-135
US-PATENT-CLASS-75-138
US-PATENT-CLASS-75-178R
US-PATENT-4,198,232

N80-23452* c 27 ..... NASA-CASE-ARC-10980-1
US-PATENT-APPL-SN-694407
US-PATENT-CLASS-204-171
US-PATENT-CLASS-210-23H
US-PATENT-CLASS-210-500M
US-PATENT-CLASS-427-245
US-PATENT-CLASS-427-41
US-PATENT-4,199,448

N80-23471* c 28 ..... NASA-CASE-NPO-14109-1
US-PATENT-APPL-SN-946990
US-PATENT-CLASS-149-108.4
US-PATENT-CLASS-23-300
US-PATENT-CLASS-23-302A
US-PATENT-CLASS-23-302R
US-PATENT-CLASS-23-302T
US-PATENT-4,198,209

N80-23524* c 32 ..... NASA-CASE-NPO-14519-1
US-PATENT-APPL-SN-008207
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-895
US-PATENT-4,199,764

N80-23559* c 33 ..... NASA-CASE-NPO-13804-1
US-PATENT-APPL-SN-766999
US-PATENT-CLASS-310-319
US-PATENT-CLASS-331-65
US-PATENT-CLASS-340-602
US-PATENT-CLASS-340-604
US-PATENT-4,197,530

N80-23653* c 37 ..... NASA-CASE-MSC-16938-1
US-PATENT-APPL-SN-938582
US-PATENT-CLASS-151-41.76
US-PATENT-4,193,435

N80-23654* c 37 ..... NASA-CASE-NPO-14473-1
US-PATENT-APPL-SN-938300
US-PATENT-CLASS-137-375
US-PATENT-CLASS-137-625.4
US-PATENT-CLASS-251-138
US-PATENT-CLASS-251-86
US-PATENT-4,195,666

N80-23655* c 37 ..... NASA-CASE-GSC-12318-1
US-PATENT-APPL-SN-894213
US-PATENT-CLASS-219-160
US-PATENT-CLASS-219-161
US-PATENT-CLASS-228-212
US-PATENT-CLASS-228-222
US-PATENT-CLASS-228-44.1R
US-PATENT-CLASS-269-287
US-PATENT-4,196,840

N80-23711* c 43 ..... NASA-CASE-MFS-23720-1
US-PATENT-APPL-SN-848419
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,195,512

N80-23969* c 52 ..... NASA-CASE-FRC-11012-1
US-PATENT-APPL-SN-928137
US-PATENT-CLASS-128-666
US-PATENT-CLASS-128-690
US-PATENT-4,198,988

N80-24149* c 74 ..... NASA-CASE-GSC-12348-1
US-PATENT-APPL-SN-929088
US-PATENT-CLASS-51-277
US-PATENT-CLASS-51-283R
US-PATENT-CLASS-65-61
US-PATENT-4,198,788

N80-24437* c 27 ..... NASA-CASE-LEW-13027-1
US-PATENT-APPL-SN-958575
US-PATENT-CLASS-427-164
US-PATENT-CLASS-427-38
US-PATENT-CLASS-427-40
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-474
US-PATENT-4,199,650

N80-24438* c 27 ..... NASA-CASE-MSC-14903-3
US-PATENT-APPL-SN-706424
US-PATENT-APPL-SN-907479
US-PATENT-CLASS-260-DIG.29
US-PATENT-CLASS-525-326
US-PATENT-CLASS-525-336
US-PATENT-CLASS-525-340
US-PATENT-CLASS-525-374
US-PATENT-CLASS-525-375
US-PATENT-CLASS-526-261
US-PATENT-CLASS-526-275
US-PATENT-CLASS-526-276
US-PATENT-CLASS-526-278
US-PATENT-CLASS-528-481
US-PATENT-4,200,721

N80-24510* c 32 ..... NASA-CASE-NPO-14524-1
NASA-CASE-NPO-14527-1
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US-PATENT-CLASS-350-6.5
US-PATENT-CLASS-350-6.6
US-PATENT-CLASS-356-28.5
US-PATENT-4,201,468

N80-24573* c 34 ..... NASA-CASE-LEW-12441-2
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US-PATENT-APPL-SN-856462
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US-PATENT-CLASS-60-267
US-PATENT-4,199,937

N80-24741* c 44 ..... NASA-CASE-NPO-14635-1
US-PATENT-APPL-SN-008212
US-PATENT-CLASS-136-89SG
US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-605
US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-252-62.3E
US-PATENT-4,210,622

N80-24906* c 46 ..... NASA-CASE-NPO-14558-1
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US-PATENT-CLASS-73-155
US-PATENT-4,196,619

N80-26298* c 07 ..... NASA-CASE-ARC-10814-2
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US-PATENT-APPL-SN-831632
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US-PATENT-CLASS-60-733
US-PATENT-CLASS-60-746
US-PATENT-4,204,402

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US-PATENT-CLASS-156-285
US-PATENT-CLASS-260-17.2
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US-PATENT-CLASS-264-124
US-PATENT-4,204,899

N80-26446* c 27 ..... NASA-CASE-MSC-16074-1
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US-PATENT-CLASS-204-159.19
US-PATENT-CLASS-525-426
US-PATENT-CLASS-8-DIG.12
US-PATENT-CLASS-8-DIG.18
US-PATENT-CLASS-8-115.5
US-PATENT-4,203,723

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US-PATENT-CLASS-324-51
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US-PATENT-APPL-SN-956529
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US-PATENT-CLASS-250-353
US-PATENT-CLASS-356-328
US-PATENT-4,205,229

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US-PATENT-APPL-SN-931090
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US-PATENT-CLASS-415-196
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US-PATENT-4,207,024

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US-PATENT-CLASS-435-3
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-316
US-PATENT-CLASS-435-32
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US-PATENT-CLASS-435-39
US-PATENT-4,204,037

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US-PATENT-CLASS-33-125R
US-PATENT-CLASS-338-2
US-PATENT-CLASS-73-781
US-PATENT-4,204,544

N80-27163* c 72 ..... NASA-CASE-NPO-14324-1
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US-PATENT-CLASS-313-362
US-PATENT-CLASS-313-363
US-PATENT-4,206,383

N80-27185* c 74 ..... NASA-CASE-LAR-12251-1
US-PATENT-APPL-SN-953389
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US-PATENT-CLASS-350-226
US-PATENT-4,206,970

N80-28300* c 02 ..... NASA-CASE-FRC-11024-1
US-PATENT-APPL-SN-015983
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US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-861.65
US-PATENT-CLASS-73-861.66
US-PATENT-4,212,199

N80-28492* c 26 ..... NASA-CASE-LAR-11821-1
US-PATENT-APPL-SN-023501
US-PATENT-CLASS-148-131
US-PATENT-CLASS-266-119
US-PATENT-CLASS-266-249
US-PATENT-CLASS-266-274
US-PATENT-4,212,690

N80-28536* c 28 ..... NASA-CASE-NPO-14477-1
US-PATENT-APPL-SN-951830
US-PATENT-CLASS-149-19.2
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-20
US-PATENT-4,210,474

N80-28578* c 32 ..... NASA-CASE-GSC-12365-1
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US-PATENT-CLASS-343-844
US-PATENT-CLASS-343-854
US-PATENT-4,213,131

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US-PATENT-CLASS-250-491
US-PATENT-CLASS-250-513
US-PATENT-4,213,051

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US-PATENT-APPL-SN-929087
US-PATENT-CLASS-356-244
US-PATENT-CLASS-356-369
US-PATENT-4,210,401

N80-28711* c 37 ..... NASA-CASE-LEW-12119-1
US-PATENT-APPL-SN-672219
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US-PATENT-CLASS-277-193
US-PATENT-CLASS-277-224
US-PATENT-4,212,477

N80-29539* c 32 ..... NASA-CASE-LAR-11745-1
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US-PATENT-CLASS-343-786

US-PATENT-4,089,004
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N80-29703* c 37 ..... NASA-CASE-NPO-14406-1
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US-PATENT-CLASS-125-21
US-PATENT-CLASS-83-820
US-PATENT-4,191,159
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US-PATENT-CLASS-290-53
US-PATENT-CLASS-310-30
US-PATENT-4,191,893
N80-29835* c 44 ..... NASA-CASE-NPO-13786-1
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US-PATENT-CLASS-148-1.5
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-52
US-PATENT-CLASS-357-91
US-PATENT-4,090,213
N80-31790* c 37 ..... NASA-CASE-LEW-12274-1
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US-PATENT-CLASS-417-383
US-PATENT-CLASS-60-520
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N80-32245* c 76 ..... NASA-CASE-NPO-14295-1
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US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-617SP
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US-PATENT-CLASS-239-265.33
US-PATENT-CLASS-60-264
US-PATENT-4,214,703
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US-PATENT-APPL-SN-803822
US-PATENT-CLASS-75-124
US-PATENT-4,214,902
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US-PATENT-APPL-SN-374810
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US-PATENT-CLASS-568-861
US-PATENT-4,118,427
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US-PATENT-APPL-SN-933186
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US-PATENT-4,196,129
N80-32516* c 27 ..... NASA-CASE-LEW-13103-1
US-PATENT-APPL-SN-971596
US-PATENT-CLASS-156-272
US-PATENT-CLASS-156-292
US-PATENT-CLASS-204-159.11
US-PATENT-CLASS-204-159.14
US-PATENT-CLASS-264-212
US-PATENT-CLASS-264-22
US-PATENT-CLASS-427-44
US-PATENT-CLASS-428-500
US-PATENT-CLASS-429-139
US-PATENT-4,218,280
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US-PATENT-CLASS-236-13
US-PATENT-CLASS-236-44C
US-PATENT-CLASS-236-49
US-PATENT-4,210,278
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US-PATENT-CLASS-367-27
US-PATENT-CLASS-367-36
US-PATENT-CLASS-367-57
US-PATENT-4,214,226
N80-32604* c 32 ..... NASA-CASE-MSC-18334-1
US-PATENT-APPL-SN-051270
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US-PATENT-CLASS-343-830
US-PATENT-4,218,682
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NASA-CASE-NPO-14640-1
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US-PATENT-CLASS-333-252
US-PATENT-CLASS-333-99S
US-PATENT-4,215,327
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NASA-CASE-NPO-14430-1
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US-PATENT-CLASS-324-64
US-PATENT-4,218,650
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US-PATENT-CLASS-74-425
US-PATENT-CLASS-74-661
US-PATENT-CLASS-74-665C
US-PATENT-4,215,592
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US-PATENT-CLASS-198-848
US-PATENT-CLASS-474-205
US-PATENT-4,215,590
N80-33081* # c 52 ..... NASA-CASE-ARC-11258-1
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N80-33186* c 72 ..... NASA-CASE-LEW-12940-1
US-PATENT-APPL-SN-953391
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US-PATENT-CLASS-313-362
US-PATENT-4,218,633
N80-33210* c 74 ..... NASA-CASE-MSC-18255-1
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US-PATENT-CLASS-350-55
US-PATENT-CLASS-356-72
US-PATENT-4,215,273
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US-PATENT-APPL-SN-616528
US-PATENT-APPL-SN-764245
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US-PATENT-CLASS-75-222
US-PATENT-4,214,905
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N81-12542* c 44 ..... NASA-CASE-LEW-12806-2
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US-PATENT-APPL-SN-915050
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US-PATENT-CLASS-136-291
US-PATENT-CLASS-363-147
US-PATENT-CLASS-363-27
US-PATENT-CLASS-363-60
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US-PATENT-CLASS-428-528
US-PATENT-CLASS-428-541
US-PATENT-CLASS-428-921
US-PATENT-4,209,561
N81-14000* c 24 ..... NASA-CASE-LAR-12065-1
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US-PATENT-CLASS-428-114
US-PATENT-CLASS-428-140
US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-480
US-PATENT-CLASS-428-902
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N81-14015* c 25 ..... NASA-CASE-NPO-14143-1
US-PATENT-APPL-SN-938297
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N81-14016* c 25 ..... NASA-CASE-ARC-11241-1
US-PATENT-APPL-SN-037066
US-PATENT-CLASS-260-33.8F
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US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
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US-PATENT-CLASS-260-898
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US-PATENT-CLASS-521-62
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N81-14077* c 27 ..... NASA-CASE-MSC-12631-3
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US-PATENT-APPL-SN-568541
US-PATENT-APPL-SN-785279
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US-PATENT-CLASS-156-160
US-PATENT-CLASS-156-163
US-PATENT-CLASS-156-212
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US-PATENT-CLASS-156-331
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US-PATENT-APPL-SN-839963
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US-PATENT-CLASS-427-429
US-PATENT-CLASS-428-473.5
US-PATENT-4,166,170
US-PATENT-4,233,258
N81-14103* c 28 ..... NASA-CASE-LEW-12081-3
US-PATENT-APPL-SN-009887
US-PATENT-APPL-SN-676432
US-PATENT-APPL-SN-837794
US-PATENT-CLASS-149-1
US-PATENT-CLASS-156-344
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-44-7R
US-PATENT-CLASS-55-2
US-PATENT-CLASS-62-12
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US-PATENT-CLASS-62-40
US-PATENT-CLASS-62-47
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US-PATENT-4,229,196
N81-14137* c 31 ..... NASA-CASE-KSC-11064-1
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US-PATENT-CLASS-169-70
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N81-14185* c 32 ..... NASA-CASE-NPO-14536-1
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US-PATENT-CLASS-343-100TD
US-PATENT-4,233,606
N81-14186* c 32 ..... NASA-CASE-NPO-14749-1
US-PATENT-APPL-SN-078521
US-PATENT-CLASS-375-107
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US-PATENT-CLASS-455-619
US-PATENT-CLASS-455-71
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US-PATENT-APPL-SN-953313
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US-PATENT-CLASS-343-789
US-PATENT-CLASS-343-797
US-PATENT-4,218,685
N81-14220* c 33 ..... NASA-CASE-NPO-14163-1
US-PATENT-APPL-SN-878541
US-PATENT-CLASS-363-56
US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-78
US-PATENT-4,222,098
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US-PATENT-CLASS-340-310A
US-PATENT-CLASS-340-310R
US-PATENT-CLASS-340-870.24
US-PATENT-CLASS-368-47
US-PATENT-CLASS-370-85
US-PATENT-4,228,422
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US-PATENT-CLASS-62-514R
US-PATENT-4,218,892
N81-14317* c 37 ..... NASA-CASE-MSC-16973-1
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US-PATENT-CLASS-150-11
US-PATENT-CLASS-156-294
US-PATENT-CLASS-52-232
US-PATENT-CLASS-52-743
US-PATENT-4,235,060
N81-14318* c 37 ..... NASA-CASE-NPO-14220-1
US-PATENT-APPL-SN-907421

US-PATENT-CLASS-60-518
US-PATENT-CLASS-74-417
US-PATENT-4,228,656

N81-14319* c 37 ..... NASA-CASE-LAR-11855-1
US-PATENT-APPL-SN-953314
US-PATENT-CLASS-407-117
US-PATENT-CLASS-407-85
US-PATENT-CLASS-408-1R
US-PATENT-CLASS-82-1.2
US-PATENT-CLASS-82-1C
US-PATENT-CLASS-82-36R
US-PATENT-4,218,941

N81-14320* c 37 ..... NASA-CASE-GSC-12429-1
US-PATENT-APPL-SN-009888
US-PATENT-CLASS-244-161
US-PATENT-CLASS-294-106
US-PATENT-CLASS-414-1
US-PATENT-4,219,171

N81-14389* c 44 ..... NASA-CASE-NPO-14416-1
US-PATENT-APPL-SN-014664
US-PATENT-CLASS-29-DIG.1
US-PATENT-CLASS-29-832
US-PATENT-4,219,926

N81-14605* c 51 ..... NASA-CASE-ARC-11114-1
US-PATENT-APPL-SN-951422
US-PATENT-CLASS-128-DIG.12
US-PATENT-CLASS-128-DIG.16
US-PATENT-CLASS-128-DIG.26
US-PATENT-CLASS-128-DIG.6
US-PATENT-CLASS-128-DIG.9
US-PATENT-CLASS-128-204.18
US-PATENT-CLASS-128-207.14
US-PATENT-CLASS-128-207.28
US-PATENT-CLASS-128-236
US-PATENT-4,212,297

N81-14612* c 52 ..... NASA-CASE-ARC-11117-1
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US-PATENT-CLASS-128-642
US-PATENT-4,219,027

N81-14613* c 52 ..... NASA-CASE-ARC-11118-2
US-PATENT-APPL-SN-850504
US-PATENT-APPL-SN-974476
US-PATENT-CLASS-424-274
US-PATENT-4,230,717

N81-14968* c 02 ..... NASA-CASE-LAR-12326-1
US-PATENT-APPL-SN-019541
US-PATENT-CLASS-102-56R
US-PATENT-CLASS-102-92.1
US-PATENT-CLASS-244-119
US-PATENT-CLASS-244-130
US-PATENT-4,225,102

N81-14999* c 07 ..... NASA-CASE-LEW-13201-1
US-PATENT-APPL-SN-038980
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-181-214
US-PATENT-4,220,171

N81-15104* c 27 ..... NASA-CASE-NPO-10830-1
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US-PATENT-CLASS-117-6
US-PATENT-CLASS-138.8R
US-PATENT-CLASS-260-33.6UB
US-PATENT-CLASS-33.8UB
US-PATENT-CLASS-37N
US-PATENT-CLASS-41R
US-PATENT-CLASS-77.5AQ
US-PATENT-CLASS-77.5CH
US-PATENT-CLASS-859R
US-PATENT-CLASS-94.9N
US-PATENT-3,655,814

N81-15119* c 28 ..... NASA-CASE-NPO-14110-1
US-PATENT-APPL-SN-947000
US-PATENT-CLASS-149-108.4
US-PATENT-CLASS-23-293R
US-PATENT-CLASS-252-364
US-PATENT-CLASS-260-96D
US-PATENT-CLASS-423-1
US-PATENT-CLASS-423-131
US-PATENT-CLASS-423-658.5
US-PATENT-CLASS-525-384
US-PATENT-CLASS-526-914
US-PATENT-CLASS-75-25
US-PATENT-4,229,182

N81-15154* c 31 ..... NASA-CASE-NPO-13758-2
US-PATENT-APPL-SN-623389
US-PATENT-APPL-SN-727444
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US-PATENT-CLASS-110-229
US-PATENT-CLASS-110-232
US-PATENT-CLASS-110-343
US-PATENT-CLASS-110-347
US-PATENT-CLASS-202-118
US-PATENT-CLASS-264-23
US-PATENT-CLASS-425-378R
US-PATENT-4,206,713

N81-15179* c 32 ..... NASA-CASE-MSC-18035-1
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US-PATENT-CLASS-375-115
US-PATENT-CLASS-375-58
US-PATENT-4,221,005

N81-15192* c 33 ..... NASA-CASE-NPO-14444-1
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US-PATENT-CLASS-332-23R
US-PATENT-CLASS-375-54
US-PATENT-CLASS-375-67
US-PATENT-CLASS-455-102
US-PATENT-4,216,542

N81-15363* c 37 ..... NASA-CASE-MSC-18134-1
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US-PATENT-CLASS-277-181
US-PATENT-CLASS-277-229
US-PATENT-4,219,203

N81-15364* c 37 ..... NASA-CASE-NPO-14170-1
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US-PATENT-CLASS-188-134
US-PATENT-CLASS-188-180
US-PATENT-CLASS-188-184
US-PATENT-CLASS-244-173
US-PATENT-4,219,107

N81-15706* c 60 ..... NASA-CASE-NPO-14162-1
NASA-CASE-NPO-14167-1
NASA-CASE-NPO-14169-1
US-PATENT-APPL-SN-893903
US-PATENT-CLASS-307-219
US-PATENT-CLASS-307-225R
US-PATENT-CLASS-307-269
US-PATENT-CLASS-307-291
US-PATENT-CLASS-328-192
US-PATENT-CLASS-328-48
US-PATENT-CLASS-328-71
US-PATENT-4,213,064

N81-15767* c 71 ..... NASA-CASE-MFS-25050-1
US-PATENT-APPL-SN-057466
US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-505
US-PATENT-4,218,921

N81-16209*# c 26 ..... NASA-CASE-LEW-23169-2
US-PATENT-APPL-SN-191746

N81-17057* c 06 ..... NASA-CASE-FRC-11029-1
US-PATENT-APPL-SN-164617
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-178R
US-PATENT-4,240,290

N81-17170* c 24 ..... NASA-CASE-LEW-12493-1
US-PATENT-APPL-SN-893857
US-PATENT-CLASS-156-292
US-PATENT-CLASS-228-118
US-PATENT-CLASS-228-170
US-PATENT-CLASS-228-174
US-PATENT-CLASS-228-190
US-PATENT-4,211,354

N81-17187* c 25 ..... NASA-CASE-NPO-13530-1
US-PATENT-CLASS-210-500M
US-PATENT-CLASS-260-2.1
US-PATENT-CLASS-260-2.2R
US-PATENT-4,014,798

N81-17259* c 27 ..... NASA-CASE-ARC-11248-1
US-PATENT-APPL-SN-028300
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-CLASS-528-423
US-PATENT-4,242,498

N81-17260* c 27 ..... NASA-CASE-LEW-13226-1
US-PATENT-APPL-SN-070771
US-PATENT-CLASS-260-326N
US-PATENT-CLASS-260-326S
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-528-118
US-PATENT-CLASS-528-322
US-PATENT-CLASS-538-117
US-PATENT-4,244,857

N81-17261* c 27 ..... NASA-CASE-NPO-14315-1
US-PATENT-APPL-SN-900659
US-PATENT-CLASS-201-10
US-PATENT-CLASS-201-25
US-PATENT-CLASS-201-8
US-PATENT-CLASS-44-50
US-PATENT-CLASS-44-62
US-PATENT-4,246,001

N81-17262* c 27 ..... NASA-CASE-ARC-11253-1
US-PATENT-APPL-SN-028301
US-PATENT-CLASS-528-310
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-4,245,085

N81-17348* c 33 ..... NASA-CASE-MFS-23845-1
US-PATENT-APPL-SN-938298
US-PATENT-CLASS-307-233R
US-PATENT-CLASS-307-306
US-PATENT-CLASS-333-204
US-PATENT-4,227,096

N81-17349* c 33 ..... NASA-CASE-MSC-16747-1
US-PATENT-APPL-SN-974475
US-PATENT-CLASS-328-134
US-PATENT-CLASS-328-37
US-PATENT-CLASS-328-55
US-PATENT-CLASS-331-48
US-PATENT-4,241,308

N81-17432* c 37 ..... NASA-CASE-NPO-14388-1
US-PATENT-APPL-SN-008208
US-PATENT-CLASS-60-518
US-PATENT-CLASS-74-417
US-PATENT-4,240,256

N81-17433* c 37 ..... NASA-CASE-ARC-11251-1
US-PATENT-APPL-SN-057465
US-PATENT-CLASS-128-DIG.20
US-PATENT-CLASS-137-549
US-PATENT-CLASS-137-886
US-PATENT-CLASS-137-887
US-PATENT-CLASS-251-216
US-PATENT-CLASS-251-339
US-PATENT-4,240,057

N81-17499* c 43 ..... NASA-CASE-FRC-11013-1
US-PATENT-APPL-SN-043912
US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-49
US-PATENT-4,240,601

N81-17518* c 44 ..... NASA-CASE-NPO-14619-1
US-PATENT-APPL-SN-027559
US-PATENT-CLASS-126-419
US-PATENT-CLASS-60-524
US-PATENT-CLASS-60-641
US-PATENT-4,236,383

N81-17886* c 74 ..... NASA-CASE-NPO-14219-1
US-PATENT-APPL-SN-888432
US-PATENT-CLASS-350-301
US-PATENT-CLASS-354-118
US-PATENT-CLASS-362-11
US-PATENT-CLASS-362-241
US-PATENT-4,213,684

N81-17887* c 74 ..... NASA-CASE-NPO-14657-1
US-PATENT-APPL-SN-008211
US-PATENT-CLASS-356-432
US-PATENT-CLASS-73-15R
US-PATENT-4,243,327

N81-17888* c 74 ..... NASA-CASE-NPO-14502-1
US-PATENT-APPL-SN-965368
US-PATENT-CLASS-356-345
US-PATENT-CLASS-356-352
US-PATENT-CLASS-356-358
US-PATENT-4,243,323

N81-19087* c 05 ..... NASA-CASE-LAR-11797-1
US-PATENT-APPL-SN-969755
US-PATENT-CLASS-244-17.25
US-PATENT-CLASS-416-114
US-PATENT-CLASS-416-500
US-PATENT-CLASS-74-519
US-PATENT-4,245,956

N81-19115* c 07 ..... NASA-CASE-LEW-12907-2
US-PATENT-APPL-SN-752050
US-PATENT-APPL-SN-909235
US-PATENT-CLASS-364-106
US-PATENT-CLASS-364-431
US-PATENT-CLASS-60-39.24
US-PATENT-4,249,238

N81-19116* c 07 ..... NASA-CASE-LEW-12594-2
US-PATENT-APPL-SN-741056
US-PATENT-APPL-SN-909608
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-236
US-PATENT-CLASS-60-238
US-PATENT-CLASS-60-239
US-PATENT-4,242,864

N81-19130* c 08 ..... NASA-CASE-LAR-11970-2
US-PATENT-APPL-SN-034104
US-PATENT-APPL-SN-727503
US-PATENT-CLASS-244-12.5
US-PATENT-CLASS-244-52
US-PATENT-CLASS-244-87
US-PATENT-4,236,684

N81-19242* c 25 ..... NASA-CASE-MFS-25000-1
US-PATENT-APPL-SN-974474
US-PATENT-CLASS-260-29.6RB
US-PATENT-CLASS-526-201
US-PATENT-CLASS-526-88
US-PATENT-4,247,434

N81-19244* c 25 ..... NASA-CASE-NPO-13309-1
US-PATENT-APPL-SN-363130
US-PATENT-CLASS-210-24
US-PATENT-CLASS-260-2.1E
US-PATENT-CLASS-260-2.2R
US-PATENT-CLASS-264-41
US-PATENT-3,944,485

N81-19296* c 27 ..... NASA-CASE-LEW-12933-1
US-PATENT-APPL-SN-027557

US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-427-221
US-PATENT-CLASS-427-379
US-PATENT-CLASS-528-353
US-PATENT-4,244,853
N81-19343* c 31 ..... NASA-CASE-GSC-12513-1
US-PATENT-APPL-SN-053571
US-PATENT-CLASS-109-49.5
US-PATENT-CLASS-109-58.5
US-PATENT-CLASS-220-82R
US-PATENT-CLASS-220-89A
US-PATENT-CLASS-49-171
US-PATENT-4,245,566
N81-19389* c 33 ..... NASA-CASE-NPO-14297-1
US-PATENT-APPL-SN-938299
US-PATENT-CLASS-156-DIG.96
US-PATENT-CLASS-156-608
US-PATENT-CLASS-219-10.49R
US-PATENT-CLASS-219-10.67
US-PATENT-CLASS-422-246
US-PATENT-CLASS-422-249
US-PATENT-CLASS-432-264
US-PATENT-4,242,553
N81-19392* c 33 ..... NASA-CASE-GSC-12360-1
US-PATENT-APPL-SN-041164
US-PATENT-CLASS-363-101
US-PATENT-CLASS-363-21
US-PATENT-4,245,286
N81-19393* c 33 ..... NASA-CASE-NPO-14505-1
US-PATENT-APPL-SN-956166
US-PATENT-CLASS-363-21
US-PATENT-CLASS-363-36
US-PATENT-CLASS-363-40
US-PATENT-CLASS-363-47
US-PATENT-4,245,288
N81-19426* c 35 ..... NASA-CASE-MFS-23923-1
US-PATENT-APPL-SN-053569
US-PATENT-CLASS-73-190R
US-PATENT-4,248,083
N81-19427* c 35 ..... NASA-CASE-MSC-16370-1
US-PATENT-APPL-SN-061556
US-PATENT-CLASS-329-107
US-PATENT-CLASS-329-50
US-PATENT-CLASS-375-1
US-PATENT-CLASS-375-104
US-PATENT-CLASS-375-34
US-PATENT-CLASS-375-99
US-PATENT-4,241,312
N81-19455* c 37 ..... NASA-CASE-LEW-12982-1
US-PATENT-APPL-SN-929084
US-PATENT-CLASS-204-192E
US-PATENT-CLASS-228-116
US-PATENT-CLASS-228-205
US-PATENT-4,245,768
N81-19558* c 44 ..... NASA-CASE-NPO-14670-1
US-PATENT-APPL-SN-043941
US-PATENT-CLASS-136-258
US-PATENT-CLASS-252-62.3E
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-357-63
US-PATENT-4,249,957
N81-19896* c 74 ..... NASA-CASE-NPO-11337-1
NASA-CASE-NPO-11575-1
US-PATENT-APPL-SN-090584
US-PATENT-APPL-SN-276599
US-PATENT-CLASS-340-146.3H
US-PATENT-CLASS-340-146.3S
US-PATENT-CLASS-340-146.3Y
US-PATENT-3,845,466
N81-19898* c 74 ..... NASA-CASE-NPO-12087-1
US-PATENT-APPL-SN-095217
US-PATENT-CLASS-250-83.6R
US-PATENT-3,704,284
N81-20352*# c 33 ..... NASA-CASE-NPO-13970-1
US-PATENT-APPL-SN-023484
US-PATENT-CLASS-318-138
US-PATENT-CLASS-318-254
US-PATENT-CLASS-318-439
US-PATENT-4,249,116
N81-20703* c 52 ..... NASA-CASE-NPO-14329-1
US-PATENT-APPL-SN-044432
US-PATENT-CLASS-128-642
US-PATENT-CLASS-128-774
US-PATENT-CLASS-73-141A
US-PATENT-4,249,417
N81-21047* c 04 ..... NASA-CASE-ARC-11257-1
US-PATENT-APPL-SN-078611
US-PATENT-CLASS-73-178R
US-PATENT-CLASS-73-490
US-PATENT-CLASS-73-504
US-PATENT-4,244,215
N81-22280*# c 33 ..... NASA-CASE-MFS-24368-3
US-PATENT-APPL-SN-243683
N81-22344*# c 36 ..... NASA-CASE-GSC-12609-1
US-PATENT-APPL-SN-218586
N81-22360*# c 37 ..... NASA-CASE-LEW-12445-1
US-PATENT-APPL-SN-238887
N81-24106* c 08 ..... NASA-CASE-LAR-12268-1
US-PATENT-APPL-SN-015996
US-PATENT-CLASS-244-181
US-PATENT-CLASS-244-195
US-PATENT-CLASS-318-584
US-PATENT-CLASS-364-434
US-PATENT-4,261,537
N81-24256* c 27 ..... NASA-CASE-ARC-11253-3
US-PATENT-APPL-SN-028301
US-PATENT-APPL-SN-145283
US-PATENT-CLASS-260-465.5R
US-PATENT-CLASS-528-310
US-PATENT-CLASS-564-229
US-PATENT-4,269,787
N81-24257* c 27 ..... NASA-CASE-LEW-13135-2
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US-PATENT-APPL-SN-971475
US-PATENT-CLASS-264-104
US-PATENT-CLASS-264-105
US-PATENT-CLASS-429-139
US-PATENT-CLASS-429-249
US-PATENT-CLASS-429-253
US-PATENT-CLASS-429-27
US-PATENT-CLASS-429-28
US-PATENT-CLASS-525-61
US-PATENT-4,262,067
N81-24258* c 27 ..... NASA-CASE-NPO-10424-1
US-PATENT-APPL-SN-692636
US-PATENT-CLASS-260-37
US-PATENT-3,651,008
N81-24280* c 28 ..... NASA-CASE-MSC-16394-1
US-PATENT-APPL-SN-161255
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-252
US-PATENT-CLASS-204-266
US-PATENT-CLASS-204-290F
US-PATENT-CLASS-204-290R
US-PATENT-CLASS-204-291
US-PATENT-4,263,112
N81-24338* c 33 ..... NASA-CASE-NPO-14617-1
US-PATENT-APPL-SN-051269
US-PATENT-CLASS-330-8
US-PATENT-4,262,259
N81-24422* c 36 ..... NASA-CASE-LAR-12177-1
US-PATENT-APPL-SN-027558
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-356-356
US-PATENT-CLASS-356-358
US-PATENT-4,255,048
N81-24442* c 37 ..... NASA-CASE-LEW-12991-1
US-PATENT-APPL-SN-961832
US-PATENT-CLASS-277-96
US-PATENT-4,260,166
N81-24443* c 37 ..... NASA-CASE-LAR-11695-2
US-PATENT-APPL-SN-103836
US-PATENT-APPL-SN-893865
US-PATENT-CLASS-152-330RF
US-PATENT-CLASS-152-353G
US-PATENT-CLASS-152-353R
US-PATENT-CLASS-152-379.4
US-PATENT-CLASS-244-103R
US-PATENT-CLASS-244-130
US-PATENT-4,267,992
N81-24519* c 44 ..... NASA-CASE-LEW-12441-3
US-PATENT-APPL-SN-032307
US-PATENT-APPL-SN-856462
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-267
US-PATENT-4,199,937
US-PATENT-4,245,469
N81-24520* c 44 ..... NASA-CASE-MFS-23999-1
US-PATENT-APPL-SN-060435
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-209
US-PATENT-4,262,195
N81-24521* c 44 ..... NASA-CASE-LEW-12918-1
US-PATENT-APPL-SN-134855
US-PATENT-CLASS-429-120
US-PATENT-CLASS-429-160
US-PATENT-CLASS-429-164
US-PATENT-CLASS-429-94
US-PATENT-4,262,064
N81-24711* c 52 ..... NASA-CASE-MSC-16433-1
US-PATENT-APPL-SN-910992
US-PATENT-CLASS-128-295
US-PATENT-CLASS-128-761
US-PATENT-CLASS-4-144.3
US-PATENT-4,246,901
N81-24724* c 54 ..... NASA-CASE-KSC-11085-1
US-PATENT-APPL-SN-046739
US-PATENT-CLASS-261-79A
US-PATENT-CLASS-422-109
US-PATENT-CLASS-422-27
US-PATENT-CLASS-422-3
US-PATENT-CLASS-422-30
US-PATENT-CLASS-422-34
US-PATENT-4,250,143
N81-24779* c 62 ..... NASA-CASE-KSC-11048-1
US-PATENT-APPL-SN-023437
US-PATENT-CLASS-364-200
US-PATENT-4,254,464
N81-24900* c 74 ..... NASA-CASE-GSC-12528-1
US-PATENT-APPL-SN-111439
US-PATENT-CLASS-250-368
US-PATENT-CLASS-250-483
US-PATENT-4,262,206
N81-25159* c 25 ..... NASA-CASE-NPO-15102-1
US-PATENT-APPL-SN-154726
US-PATENT-CLASS-250-350
US-PATENT-CLASS-356-432
US-PATENT-4,253,769
N81-25188* c 26 ..... NASA-CASE-LEW-13088-1
US-PATENT-APPL-SN-089779
US-PATENT-CLASS-428-471
US-PATENT-CLASS-428-632
US-PATENT-CLASS-428-678
US-PATENT-CLASS-428-679
US-PATENT-CLASS-428-680
US-PATENT-4,255,495
N81-25209* c 27 ..... NASA-CASE-MSC-18107-1
US-PATENT-APPL-SN-956168
US-PATENT-CLASS-430-271
US-PATENT-CLASS-430-325
US-PATENT-CLASS-430-329
US-PATENT-CLASS-430-330
US-PATENT-4,262,080
N81-25258* c 31 ..... NASA-CASE-LAR-12095-1
US-PATENT-APPL-SN-811401
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-403-171
US-PATENT-CLASS-428-902
US-PATENT-CLASS-52-309.1
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-726
US-PATENT-4,259,821
N81-25259* c 31 ..... NASA-CASE-LAR-12077-1
US-PATENT-APPL-SN-014663
US-PATENT-CLASS-52-645
US-PATENT-4,259,825
N81-25278* c 32 ..... NASA-CASE-NPO-14588-1
US-PATENT-APPL-SN-008209
US-PATENT-CLASS-343-755
US-PATENT-CLASS-343-772
US-PATENT-CLASS-343-781R
US-PATENT-CLASS-343-786
US-PATENT-4,258,366
N81-25299* c 33 ..... NASA-CASE-GSC-12399-1
US-PATENT-APPL-SN-961831
US-PATENT-CLASS-70-58
US-PATENT-4,252,007
N81-25370* c 37 ..... NASA-CASE-NPO-14221-1
US-PATENT-APPL-SN-907431
US-PATENT-CLASS-60-517
US-PATENT-CLASS-60-525
US-PATENT-4,255,929
N81-25371* c 37 ..... NASA-CASE-NPO-13823-1
US-PATENT-APPL-SN-658487
US-PATENT-CLASS-106-43
US-PATENT-CLASS-264-332
US-PATENT-4,252,768
N81-25400* c 39 ..... NASA-CASE-NPO-14363-1
US-PATENT-APPL-SN-969760
US-PATENT-CLASS-356-213
US-PATENT-CLASS-356-216
US-PATENT-CLASS-356-234
US-PATENT-CLASS-356-32
US-PATENT-4,252,440
N81-25660* c 52 ..... NASA-CASE-MFS-23717-1
US-PATENT-APPL-SN-950877
US-PATENT-CLASS-128-DIG.25
US-PATENT-CLASS-128-1R
US-PATENT-CLASS-128-346
US-PATENT-CLASS-137-493
US-PATENT-4,256,093
N81-25661* c 52 ..... NASA-CASE-GSC-12082-2
US-PATENT-APPL-SN-676958
US-PATENT-APPL-SN-798976
US-PATENT-CLASS-128-80F
US-PATENT-4,252,111
N81-25662* c 52 ..... NASA-CASE-ARC-11167-1
US-PATENT-APPL-SN-057526
US-PATENT-CLASS-128-89R
US-PATENT-4,261,349
N81-26073*# c 02 ..... NASA-CASE-KSC-11042-2
US-PATENT-APPL-SN-154663
N81-26114* c 05 ..... NASA-CASE-LAR-12406-1
US-PATENT-APPL-SN-008210
US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-244-117A

US-PATENT-CLASS-244-163
US-PATENT-CLASS-60-259
US-PATENT-CLASS-60-267
US-PATENT-CLASS-60-730
US-PATENT-CLASS-62-DIG.5
US-PATENT-4,273,304

N81-26152* c 08 ..... NASA-CASE-LAR-12562-1
US-PATENT-APPL-SN-015995
US-PATENT-CLASS-244-181
US-PATENT-CLASS-244-182
US-PATENT-4,266,743

N81-26161* c 14 ..... NASA-CASE-LAR-12250-1
US-PATENT-APPL-SN-910794
US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-2
US-PATENT-CLASS-244-63
US-PATENT-4,265,416

N81-26179* c 24 ..... NASA-CASE-LEW-12493-2
US-PATENT-APPL-SN-122967
US-PATENT-APPL-SN-893857
US-PATENT-CLASS-228-118
US-PATENT-CLASS-228-190
US-PATENT-4,211,354
US-PATENT-4,267,953

N81-26358* c 33 ..... NASA-CASE-LAR-12196-1
US-PATENT-APPL-SN-017887
US-PATENT-CLASS-343-100PE
US-PATENT-4,264,908

N81-26359* c 33 ..... NASA-CASE-KSC-11065-1
US-PATENT-APPL-SN-051271
US-PATENT-CLASS-324-51
US-PATENT-CLASS-324-73AT
US-PATENT-CLASS-371-20
US-PATENT-CLASS-371-25
US-PATENT-4,267,594

N81-26360* c 33 ..... NASA-CASE-GSC-12515-1
US-PATENT-APPL-SN-172727
US-PATENT-CLASS-148-1.5
US-PATENT-CLASS-148-187
US-PATENT-CLASS-156-647
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US-PATENT-CLASS-29-571
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US-PATENT-CLASS-357-23
US-PATENT-CLASS-357-55
US-PATENT-CLASS-357-60
US-PATENT-CLASS-357-91
US-PATENT-4,272,302

N81-26402* c 34 ..... NASA-CASE-KSC-11076-1
US-PATENT-APPL-SN-051274
US-PATENT-CLASS-364-510
US-PATENT-CLASS-364-571
US-PATENT-CLASS-73-861
US-PATENT-4,253,156

N81-26431* c 35 ..... NASA-CASE-FRC-10112-1
US-PATENT-APPL-SN-122965
US-PATENT-CLASS-219-209
US-PATENT-CLASS-219-210
US-PATENT-CLASS-219-510
US-PATENT-CLASS-236-1F
US-PATENT-CLASS-361-334
US-PATENT-CLASS-73-361
US-PATENT-4,264,802

N81-26447* c 37 ..... NASA-CASE-LEW-12119-2
US-PATENT-APPL-SN-102004
US-PATENT-APPL-SN-672219
US-PATENT-CLASS-277-153
US-PATENT-CLASS-277-193
US-PATENT-4,212,477
US-PATENT-4,266,788

N81-26509* c 43 ..... NASA-CASE-NPO-14140-1
NASA-CASE-NPO-14387-1
US-PATENT-APPL-SN-897832
US-PATENT-CLASS-134-17
US-PATENT-CLASS-166-222
US-PATENT-CLASS-166-77
US-PATENT-CLASS-239-562
US-PATENT-CLASS-239-591
US-PATENT-CLASS-299-13
US-PATENT-CLASS-299-17
US-PATENT-CLASS-299-20
US-PATENT-4,226,475

N81-26718* c 54 ..... NASA-CASE-MFS-23696-1
US-PATENT-APPL-SN-945044
US-PATENT-CLASS-294-93
US-PATENT-CLASS-414-4
US-PATENT-CLASS-414-735
US-PATENT-CLASS-414-744A
US-PATENT-4,273,505

N81-27271* c 27 ..... NASA-CASE-ARC-11176-2
US-PATENT-APPL-SN-129798
US-PATENT-CLASS-528-168
US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-4
US-PATENT-CLASS-528-6
US-PATENT-4,276,403

N81-27272* c 27 ..... NASA-CASE-ARC-11321-1
US-PATENT-APPL-SN-175452
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US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-228
US-PATENT-4,276,344

N81-27323* c 31 ..... NASA-CASE-MSC-16217-1
US-PATENT-APPL-SN-893383
US-PATENT-CLASS-52-108
US-PATENT-CLASS-52-745
US-PATENT-4,237,662

N81-27324* c 31 ..... NASA-CASE-LAR-12195-1
US-PATENT-APPL-SN-946991
US-PATENT-CLASS-182-62.5
US-PATENT-CLASS-212-267
US-PATENT-CLASS-52-111
US-PATENT-CLASS-52-632
US-PATENT-4,238,911

N81-27341* c 32 ..... NASA-CASE-GSC-12147-1
US-PATENT-APPL-SN-780873
US-PATENT-CLASS-343-112R
US-PATENT-4,276,553

N81-27395* c 33 ..... NASA-CASE-MFS-23988-1
US-PATENT-APPL-SN-044431
US-PATENT-CLASS-307-252UA
US-PATENT-CLASS-318-799
US-PATENT-CLASS-318-810
US-PATENT-4,266,177

N81-27396* c 33 ..... NASA-CASE-NPO-14426-1
US-PATENT-APPL-SN-009889
US-PATENT-CLASS-307-352
US-PATENT-CLASS-307-353
US-PATENT-CLASS-328-151
US-PATENT-4,262,258

N81-27397* c 33 ..... NASA-CASE-MSC-12745-1
US-PATENT-APPL-SN-746579
US-PATENT-CLASS-179-78
US-PATENT-CLASS-333-12
US-PATENT-CLASS-361-56
US-PATENT-CLASS-361-91
US-PATENT-4,264,940

N81-27519* c 37 ..... NASA-CASE-NPO-14521-1
US-PATENT-APPL-SN-023439
US-PATENT-CLASS-244-161
US-PATENT-CLASS-294-86R
US-PATENT-CLASS-318-640
US-PATENT-CLASS-356-152
US-PATENT-CLASS-414-730
US-PATENT-4,260,187

N81-27615*# c 44 ..... NASA-CASE-LEW-13556-1
US-PATENT-APPL-SN-272233

N81-27783* c 52 ..... NASA-CASE-NPO-14402-1
US-PATENT-APPL-SN-855364
US-PATENT-CLASS-128-665
US-PATENT-CLASS-356-406
US-PATENT-CLASS-356-407
US-PATENT-CLASS-356-416
US-PATENT-4,170,987

N81-27806* c 54 ..... NASA-CASE-LAR-12320-1
US-PATENT-APPL-SN-043913
US-PATENT-CLASS-434-59
US-PATENT-4,264,310

N81-27814* c 60 ..... NASA-CASE-NPO-14554-1
US-PATENT-APPL-SN-974473
US-PATENT-CLASS-364-200
US-PATENT-CLASS-364-900
US-PATENT-CLASS-370-58
US-PATENT-4,264,984

N81-28698* c 51 ..... NASA-CASE-LAR-12520-1
US-PATENT-APPL-SN-067596
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-204-195B
US-PATENT-CLASS-435-291
US-PATENT-CLASS-435-34
US-PATENT-CLASS-435-5
US-PATENT-4,264,728

N81-28740* c 52 ..... NASA-CASE-MSC-18381-1
US-PATENT-APPL-SN-034531
US-PATENT-CLASS-128-295
US-PATENT-CLASS-4-144.3
US-PATENT-4,270,539

N81-29129* c 07 ..... NASA-CASE-LEW-12990-1
US-PATENT-APPL-SN-916654
US-PATENT-CLASS-261-28
US-PATENT-CLASS-431-2
US-PATENT-CLASS-60-39.06
US-PATENT-CLASS-60-726
US-PATENT-CLASS-60-737
US-PATENT-4,189,914

N81-29152* c 18 ..... NASA-CASE-LAR-12052-1
US-PATENT-APPL-SN-102002
US-PATENT-CLASS-364-453
US-PATENT-CLASS-364-566
US-PATENT-CLASS-73-178R
US-PATENT-CLASS-73-510
US-PATENT-4,281,384

N81-29160* c 23 ..... NASA-CASE-LEW-13101-2
US-PATENT-APPL-SN-145271
US-PATENT-APPL-SN-971473
US-PATENT-CLASS-260-17.4UC
US-PATENT-CLASS-264-104
US-PATENT-CLASS-428-139
US-PATENT-CLASS-429-249
US-PATENT-CLASS-429-253
US-PATENT-CLASS-429-27
US-PATENT-CLASS-429-28
US-PATENT-CLASS-525-56
US-PATENT-CLASS-525-61
US-PATENT-4,272,470

N81-29163* c 24 ..... NASA-CASE-MFS-23674-1
US-PATENT-APPL-SN-912276
US-PATENT-CLASS-156-161
US-PATENT-CLASS-156-165
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-294
US-PATENT-CLASS-156-74
US-PATENT-CLASS-264-229
US-PATENT-CLASS-264-231
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-259
US-PATENT-CLASS-264-311
US-PATENT-CLASS-74-572
US-PATENT-4,190,626

N81-29229* c 27 ..... NASA-CASE-LAR-12642-1
US-PATENT-APPL-SN-092141
US-PATENT-CLASS-264-137
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-229
US-PATENT-4,281,102

N81-29308* c 32 ..... NASA-CASE-NPO-14641-1
US-PATENT-APPL-SN-076643
US-PATENT-CLASS-343-100CL
US-PATENT-CLASS-455-278
US-PATENT-4,278,978

N81-29342* c 33 ..... NASA-CASE-GSC-12111-2
US-PATENT-APPL-SN-678813
US-PATENT-APPL-SN-830272
US-PATENT-CLASS-350-96.25
US-PATENT-CLASS-365-120
US-PATENT-4,154,501

N81-29407* c 35 ..... NASA-CASE-LAR-12308-1
US-PATENT-APPL-SN-111438
US-PATENT-CLASS-73-683.31
US-PATENT-CLASS-73-684.52
US-PATENT-4,274,285

N81-29524* c 44 ..... NASA-CASE-LEW-13148-2
US-PATENT-APPL-SN-061555
US-PATENT-APPL-SN-964754
US-PATENT-CLASS-204-2.1
US-PATENT-4,192,910
US-PATENT-4,270,984

N81-29525* c 44 ..... NASA-CASE-NPO-13689-2
US-PATENT-APPL-SN-093714
US-PATENT-APPL-SN-597430
US-PATENT-APPL-SN-683073
US-PATENT-APPL-SN-837513
US-PATENT-CLASS-136-255
US-PATENT-CLASS-136-258
US-PATENT-CLASS-136-262
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-30
US-PATENT-4,278,830

N81-29763* c 52 ..... NASA-CASE-ARC-11031-1
US-PATENT-APPL-SN-897828
US-PATENT-CLASS-128-275
US-PATENT-CLASS-128-760
US-PATENT-4,190,060

N81-29764* c 52 ..... NASA-CASE-ARC-11118-1
US-PATENT-APPL-SN-850504
US-PATENT-CLASS-424-247
US-PATENT-CLASS-424-267
US-PATENT-CLASS-424-274
US-PATENT-4,279,906

N81-29963* c 74 ..... NASA-CASE-NPO-14448-1
US-PATENT-APPL-SN-037560
US-PATENT-CLASS-356-345
US-PATENT-CLASS-356-346
US-PATENT-4,278,351

N81-32510* c 37 ..... NASA-CASE-MSC-16239-1
US-PATENT-APPL-SN-847276
US-PATENT-CLASS-91-325
US-PATENT-CLASS-91-341R
US-PATENT-CLASS-91-410
US-PATENT-4,283,995

N81-32829* c 51 ..... NASA-CASE-MFS-23825-1

US-PATENT-APPL-SN-145273
US-PATENT-CLASS-119-17
US-PATENT-CLASS-119-18
US-PATENT-4,284,034

N81-33235* c 24 ..... NASA-CASE-LAR-12065-2
US-PATENT-APPL-SN-119337
US-PATENT-APPL-SN-889671
US-PATENT-CLASS-156-242
US-PATENT-CLASS-156-245
US-PATENT-CLASS-156-252
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-290
US-PATENT-4,229,473
US-PATENT-4,274,901

N81-33246* c 25 ..... NASA-CASE-NPO-14272-1
US-PATENT-APPL-SN-878253
US-PATENT-CLASS-201-17
US-PATENT-CLASS-44-1R
US-PATENT-CLASS-44-2
US-PATENT-4,146,367

N81-33319* c 31 ..... NASA-CASE-NPO-14596-1
US-PATENT-APPL-SN-037072
US-PATENT-CLASS-264-24
US-PATENT-CLASS-264-5
US-PATENT-CLASS-264-9
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-21.4
US-PATENT-CLASS-65-22
US-PATENT-4,279,632

N81-33403* c 33 ..... NASA-CASE-GSC-12324-1
US-PATENT-APPL-SN-945043
US-PATENT-CLASS-358-109
US-PATENT-CLASS-358-213
US-PATENT-4,280,141

N81-33404* c 33 ..... NASA-CASE-NPO-14316-1
US-PATENT-APPL-SN-051276
US-PATENT-CLASS-363-24
US-PATENT-CLASS-363-56
US-PATENT-4,276,588

N81-33405* c 33 ..... NASA-CASE-NPO-14435-1
US-PATENT-APPL-SN-017886
US-PATENT-CLASS-329-122
US-PATENT-CLASS-331-DIG.2
US-PATENT-CLASS-364-514
US-PATENT-CLASS-375-1
US-PATENT-4,279-018

N81-33448* c 35 ..... NASA-CASE-NPO-14258-1
US-PATENT-APPL-SN-853349
US-PATENT-APPL-SN-972252
US-PATENT-CLASS-350-370
US-PATENT-CLASS-356-350
US-PATENT-CLASS-356-351
US-PATENT-4,280,766

N81-33482* c 37 ..... NASA-CASE-NPO-15227-1
US-PATENT-APPL-SN-163840
US-PATENT-CLASS-118-50
US-PATENT-CLASS-118-52
US-PATENT-CLASS-269-21
US-PATENT-CLASS-427-240
US-PATENT-4,280,689

N81-33483* c 37 ..... NASA-CASE-FRC-11044-1
US-PATENT-APPL-SN-135056
US-PATENT-CLASS-318-663
US-PATENT-CLASS-74-89
US-PATENT-CLASS-92-130R
US-PATENT-4,274,038

N82-11088* c 09 ..... NASA-CASE-LAR-12532-1
US-PATENT-APPL-SN-135040
US-PATENT-CLASS-73-147
US-PATENT-4,286,460

N82-11144* c 25 ..... NASA-CASE-NPO-14273-1
US-PATENT-APPL-SN-969759
US-PATENT-CLASS-110-234
US-PATENT-CLASS-110-245
US-PATENT-CLASS-110-255
US-PATENT-CLASS-110-266
US-PATENT-CLASS-122-4D
US-PATENT-4,287,838

N82-11206* c 27 ..... NASA-CASE-LAR-12640-1
US-PATENT-APPL-SN-092142
US-PATENT-CLASS-156.307.7
US-PATENT-CLASS-156-307.3
US-PATENT-CLASS-156-307.5
US-PATENT-CLASS-156-331.5
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-173
US-PATENT-CLASS-528-180
US-PATENT-CLASS-528-207
US-PATENT-CLASS-528-208
US-PATENT-CLASS-528-210
US-PATENT-CLASS-528-211
US-PATENT-CLASS-528-225
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-351
US-PATENT-CLASS-528-353
US-PATENT-4,284,461

N82-11336* c 32 ..... NASA-CASE-MSC-18606-1
US-PATENT-APPL-SN-145206
US-PATENT-CLASS-343-700MS
US-PATENT-CLASS-343-708
US-PATENT-CLASS-343-727
US-PATENT-CLASS-343-795
US-PATENT-CLASS-343-846
US-PATENT-4,287,518

N82-11357* c 33 ..... NASA-CASE-MSC-18106-1
US-PATENT-APPL-SN-098568
US-PATENT-CLASS-335-256
US-PATENT-CLASS-335-266
US-PATENT-CLASS-361-141
US-PATENT-4,295,111

N82-11360* # c 33 ..... NASA-CASE-MFS-25586-1
US-PATENT-APPL-SN-310714

N82-11399* # c 34 ..... NASA-CASE-LEW-12950-1
US-PATENT-APPL-SN-202228

N82-11431* c 35 ..... NASA-CASE-LAR-12552-1
US-PATENT-APPL-SN-070366
US-PATENT-CLASS-235-92PC
US-PATENT-CLASS-324-71CP
US-PATENT-4,286,209

N82-11432* c 35 ..... NASA-CASE-MFS-23250-1
US-PATENT-APPL-SN-119340
US-PATENT-CLASS-422-40
US-PATENT-CLASS-430-17
US-PATENT-CLASS-430-372
US-PATENT-4,287,152

N82-11469* # c 37 ..... NASA-CASE-NPO-15539-1
US-PATENT-APPL-SN-303670

N82-11634* c 45 ..... NASA-CASE-NPO-13877-1
US-PATENT-APPL-SN-652979
US-PATENT-CLASS-210-40
US-PATENT-CLASS-252-422
US-PATENT-4,209,393

N82-11770* c 52 ..... NASA-CASE-MSC-14836-1
US-PATENT-APPL-SN-691647
US-PATENT-CLASS-128-327
US-PATENT-CLASS-128-686
US-PATENT-CLASS-128-691
US-PATENT-4,294,261

N82-12166* c 25 ..... NASA-CASE-MSC-16497-1
US-PATENT-APPL-SN-041145
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-204-195S
US-PATENT-CLASS-204-263
US-PATENT-CLASS-204-264
US-PATENT-CLASS-204-266
US-PATENT-CLASS-204-275
US-PATENT-CLASS-204-276
US-PATENT-CLASS-204-278
US-PATENT-CLASS-23-230PC
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-422-80
US-PATENT-4,293,522

N82-12297* c 32 ..... NASA-CASE-NPO-14054-1
US-PATENT-APPL-SN-969761
US-PATENT-CLASS-343-5CM
US-PATENT-4,292,634

N82-12441* c 37 ..... NASA-CASE-MFS-25363-1
US-PATENT-APPL-SN-171933
US-PATENT-CLASS-118-423
US-PATENT-CLASS-118-500
US-PATENT-CLASS-134-137
US-PATENT-4,286,542

N82-12442* c 37 ..... NASA-CASE-LEW-12989-1
US-PATENT-APPL-SN-092145
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-40
US-PATENT-CLASS-277-93R
US-PATENT-4,291,887

N82-12685* c 46 ..... NASA-CASE-NPO-14544-1
US-PATENT-APPL-SN-078612
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-100PE
US-PATENT-CLASS-343-781P
US-PATENT-4,282,525

N82-13376* c 34 ..... NASA-CASE-MFS-25139-1
US-PATENT-APPL-SN-126138
US-PATENT-CLASS-239-499
US-PATENT-CLASS-239-589
US-PATENT-CLASS-239-601
US-PATENT-4,300,723

N82-13415* c 36 ..... NASA-CASE-LAR-12592-1
US-PATENT-APPL-SN-041141
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5P
US-PATENT-4,300,106

N82-13465* c 43 ..... NASA-CASE-GSC-12032-2
US-PATENT-APPL-SN-578700
US-PATENT-APPL-SN-583219
US-PATENT-CLASS-250-235
US-PATENT-CLASS-250-236
US-PATENT-CLASS-358-109
US-PATENT-4,300,159

N82-15381* c 35 ..... NASA-CASE-NPO-14839-1
US-PATENT-APPL-SN-106119
US-PATENT-CLASS-343-100PE
US-PATENT-CLASS-455-137
US-PATENT-CLASS-455-139
US-PATENT-CLASS-455-60
US-PATENT-4,295,140

N82-16059* c 04 ..... NASA-CASE-ARC-10990-1
US-PATENT-APPL-SN-749420
US-PATENT-CLASS-244-114R
US-PATENT-CLASS-340-26
US-PATENT-4,291,294

N82-16075* c 06 ..... NASA-CASE-FRC-11005-1
US-PATENT-APPL-SN-043942
US-PATENT-CLASS-340-27NA
US-PATENT-CLASS-73-178R
US-PATENT-4,283,705

N82-16174* c 23 ..... NASA-CASE-ARC-11244-1
US-PATENT-APPL-SN-054501
US-PATENT-CLASS-260-340.9R
US-PATENT-CLASS-568-445
US-PATENT-CLASS-568-497
US-PATENT-4,277,402

N82-16238* c 27 ..... NASA-CASE-MSC-18382-1
US-PATENT-APPL-SN-145107
US-PATENT-CLASS-106-18.16
US-PATENT-CLASS-106-18.24
US-PATENT-CLASS-260-45.7R
US-PATENT-CLASS-427-393.3
US-PATENT-CLASS-428-263
US-PATENT-CLASS-428-264
US-PATENT-CLASS-428-265
US-PATENT-CLASS-428-267
US-PATENT-CLASS-428-272
US-PATENT-4,284,682

N82-16340* c 33 ..... NASA-CASE-GSC-12420-1
US-PATENT-APPL-SN-129793
US-PATENT-CLASS-333-104
US-PATENT-CLASS-333-246
US-PATENT-4,302,734

N82-16396* c 36 ..... NASA-CASE-GSC-12321-1
US-PATENT-APPL-SN-102001
US-PATENT-CLASS-356-349
US-PATENT-CLASS-356-386
US-PATENT-4,299,492

N82-16408* c 37 ..... NASA-CASE-MSC-18422-1
US-PATENT-APPL-SN-102593
US-PATENT-CLASS-244-113
US-PATENT-CLASS-244-163
US-PATENT-CLASS-244-217
US-PATENT-CLASS-277-189
US-PATENT-CLASS-277-81R
US-PATENT-CLASS-418-113
US-PATENT-CLASS-418-142
US-PATENT-4,290,612

N82-16474* c 44 ..... NASA-CASE-MFS-23775-1
US-PATENT-APPL-SN-098569
US-PATENT-CLASS-73-341
US-PATENT-4,282,752

N82-16475* c 44 ..... NASA-CASE-NPO-15071-1
US-PATENT-APPL-SN-150115
US-PATENT-CLASS-126-438
US-PATENT-CLASS-250-527
US-PATENT-CLASS-48-89
US-PATENT-CLASS-48-99
US-PATENT-4,290,779

N82-16747* c 60 ..... NASA-CASE-GSC-12430-1
US-PATENT-APPL-SN-129779
US-PATENT-CLASS-370-100
US-PATENT-CLASS-375-106
US-PATENT-CLASS-375-114
US-PATENT-CLASS-375-116
US-PATENT-4,298,987

N82-16800* c 71 ..... NASA-CASE-FRC-11062-1
US-PATENT-APPL-SN-185869
US-PATENT-CLASS-181-214
US-PATENT-4,300,656

N82-18314* c 20 ..... NASA-CASE-GSC-12194-2
US-PATENT-APPL-SN-819029
US-PATENT-APPL-SN-971474
US-PATENT-CLASS-60-200R
US-PATENT-CLASS-60-39.46M
US-PATENT-4,288,982

N82-18389* c 27 ..... NASA-CASE-ARC-11176-1
US-PATENT-APPL-SN-129799
US-PATENT-CLASS-528-168
US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-4
US-PATENT-CLASS-528-6
US-PATENT-CLASS-528-7
US-PATENT-CLASS-568-2
US-PATENT-CLASS-568-4

US-PATENT-CLASS-568-5
US-PATENT-4,288,585
N82-18401* c 28 ..... NASA-CASE-ARC-11245-1
US-PATENT-APPL-SN-088663
US-PATENT-CLASS-239-690
US-PATENT-CLASS-361-226
US-PATENT-CLASS-361-230
US-PATENT-4,303,961
N82-18443* c 32 ..... NASA-CASE-NPO-14632-1
US-PATENT-APPL-SN-092143
US-PATENT-CLASS-367-100
US-PATENT-CLASS-367-102
US-PATENT-CLASS-367-88
US-PATENT-4,287,578
N82-18493* c 33 ..... NASA-CASE-FRC-11041-1
US-PATENT-APPL-SN-126064
US-PATENT-CLASS-318-561
US-PATENT-CLASS-318-620
US-PATENT-CLASS-318-621
US-PATENT-CLASS-318-622
US-PATENT-4,298,833
N82-18494* c 33 ..... NASA-CASE-FRC-11014-1
US-PATENT-APPL-SN-053652
US-PATENT-CLASS-331-113R
US-PATENT-CLASS-363-132
US-PATENT-CLASS-363-17
US-PATENT-CLASS-363-61
US-PATENT-4,298,926
N82-18601* c 37 ..... NASA-CASE-LAR-12372-1
US-PATENT-APPL-SN-108107
US-PATENT-CLASS-188-371
US-PATENT-CLASS-244-110C
US-PATENT-CLASS-280-805
US-PATENT-CLASS-57-906
US-PATENT-4,304,320
N82-18686* c 44 ..... NASA-CASE-MFS-25287-1
US-PATENT-APPL-SN-098570
US-PATENT-CLASS-126-422
US-PATENT-CLASS-126-429
US-PATENT-CLASS-126-430
US-PATENT-4,304,219
N82-19029* c 74 ..... NASA-CASE-NPO-15036-1
US-PATENT-APPL-SN-188160
US-PATENT-CLASS-455-610
US-PATENT-CLASS-455-612
US-PATENT-CLASS-455-615
US-PATENT-CLASS-455-617
US-PATENT-4,287,606
N82-19540* c 37 ..... NASA-CASE-LEW-12131-3
US-PATENT-APPL-SN-096255
US-PATENT-APPL-SN-801290
US-PATENT-APPL-SN-931090
US-PATENT-CLASS-415-174
US-PATENT-CLASS-415-196
US-PATENT-4,135,851
US-PATENT-4,207,024
US-PATENT-4,295,786
N82-21268* c 25 ..... NASA-CASE-LEW-12358-2
US-PATENT-APPL-SN-776146
US-PATENT-APPL-SN-848428
US-PATENT-CLASS-264-216
US-PATENT-CLASS-264-453
US-PATENT-CLASS-264-53
US-PATENT-CLASS-427-115
US-PATENT-CLASS-427-244
US-PATENT-CLASS-427-246
US-PATENT-4,133,941
US-PATENT-4,309,372
N82-21269* c 25 ..... NASA-CASE-XLA-08914-2
US-PATENT-APPL-SN-662181
US-PATENT-APPL-SN-810576
US-PATENT-CLASS-210-321.1
US-PATENT-CLASS-55-158
US-PATENT-4,302,223
N82-21587* c 37 ..... NASA-CASE-NPO-14395-1
US-PATENT-APPL-SN-961833
US-PATENT-CLASS-104-83
US-PATENT-CLASS-105-1A
US-PATENT-CLASS-105-171
US-PATENT-CLASS-105-180
US-PATENT-CLASS-105-218R
US-PATENT-CLASS-248-425
US-PATENT-4,301,740
N82-22496*# c 37 ..... NASA-CASE-ARC-11325-1
US-PATENT-APPL-SN-354126
N82-22875* c 52 ..... NASA-CASE-GSC-12081-2
US-PATENT-APPL-SN-672209
US-PATENT-APPL-SN-796258
US-PATENT-CLASS-128-1.2
US-PATENT-CLASS-128-778
US-PATENT-CLASS-33-143C
US-PATENT-4,294,264
N82-23231* c 04 ..... NASA-CASE-FRC-11052-1
US-PATENT-APPL-SN-129783
US-PATENT-CLASS-244-168
US-PATENT-CLASS-244-175
US-PATENT-CLASS-244-190
US-PATENT-CLASS-318-580
US-PATENT-4,326,685
N82-23254* c 09 ..... NASA-CASE-LAR-12441-1
US-PATENT-APPL-SN-145210
US-PATENT-CLASS-73-147
US-PATENT-4,327,581
N82-23282* c 25 ..... NASA-CASE-NPO-14542-1
US-PATENT-APPL-SN-030831
US-PATENT-CLASS-166-267
US-PATENT-CLASS-166-303
US-PATENT-CLASS-208-241
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US-PATENT-CLASS-178-22.17
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US-PATENT-CLASS-423-447.7
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US-PATENT-CLASS-47-26
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US-PATENT-CLASS-525-183
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US-PATENT-CLASS-204-56R
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US-PATENT-CLASS-429-254
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US-PATENT-CLASS-65-142
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US-PATENT-CLASS-165-58
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US-PATENT-CLASS-81-55
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US-PATENT-CLASS-123-78E
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US-PATENT-CLASS-350-96.15
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US-PATENT-CLASS-244-55
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US-PATENT-CLASS-427-443.2
US-PATENT-CLASS-429-111
US-PATENT-4,414,080
N84-12406* c 34 ..... NASA-CASE-MFS-25631-1
US-PATENT-APPL-SN-308203
US-PATENT-CLASS-239-426
US-PATENT-4,413,784
N84-12443* c 35 ..... NASA-CASE-FRC-11068-1
US-PATENT-APPL-SN-322314
US-PATENT-CLASS-156-215
US-PATENT-CLASS-156-230
US-PATENT-CLASS-156-235
US-PATENT-CLASS-156-294
US-PATENT-CLASS-156-391
US-PATENT-CLASS-156-423
US-PATENT-CLASS-156-540
US-PATENT-CLASS-156-71
US-PATENT-CLASS-338-2
US-PATENT-4,407,686
N84-12444* c 35 ..... NASA-CASE-LAR-12706-1
US-PATENT-APPL-SN-210498
US-PATENT-CLASS-324-250
US-PATENT-CLASS-328-230
US-PATENT-CLASS-372-74
US-PATENT-4,414,509
N84-12445* c 35 ..... NASA-CASE-LAR-12882-1
US-PATENT-APPL-SN-267179
US-PATENT-CLASS-364-415
US-PATENT-CLASS-73-646
US-PATENT-CLASS-73-658
US-PATENT-4,413,522
N84-12491* c 37 ..... NASA-CASE-GSC-12619-1
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US-PATENT-CLASS-269-3
US-PATENT-4,393,777
N84-12492* c 37 ..... NASA-CASE-GSC-12622-1
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US-PATENT-CLASS-308-2A
US-PATENT-4,405,184
N84-12493* c 37 ..... NASA-CASE-LAR-12923-1
US-PATENT-APPL-SN-383063
US-PATENT-CLASS-416-117
US-PATENT-CLASS-416-132B
US-PATENT-4,415,311
N84-12654* c 45 ..... NASA-CASE-NSTL-10
US-PATENT-APPL-SN-335036
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US-PATENT-CLASS-210-602
US-PATENT-CLASS-210-605
US-PATENT-CLASS-210-617
US-PATENT-CLASS-47-58
US-PATENT-4,415,450
N84-12968*# c 76 ..... NASA-CASE-NPO-15811-1
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N84-14132* c 04 ..... NASA-CASE-LAR-12638-1
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US-PATENT-CLASS-33-356
US-PATENT-CLASS-33-361
US-PATENT-4,418,480
N84-14322* c 27 ..... NASA-CASE-ARC-11400-1
US-PATENT-APPL-SN-441899
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US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-524-494
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US-PATENT-CLASS-524-500
US-PATENT-CLASS-524-530
US-PATENT-CLASS-525-282
US-PATENT-CLASS-525-287
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US-PATENT-CLASS-206-582
US-PATENT-CLASS-428-202
US-PATENT-CLASS-428-347
US-PATENT-CLASS-428-40
US-PATENT-CLASS-428-78
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US-PATENT-CLASS-524-371
US-PATENT-4,395,511
N84-14421* c 33 ..... NASA-CASE-GSC-12650-1
US-PATENT-APPL-SN-301077
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US-PATENT-CLASS-330-109
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N84-14422* c 33 ..... NASA-CASE-LEW-13286-1
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US-PATENT-CLASS-429-229
US-PATENT-4,418,130
N84-14423* c 33 ..... NASA-CASE-MFS-25211-2
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US-PATENT-CLASS-339-262RR
US-PATENT-CLASS-339-64M
US-PATENT-4,421,371
N84-14424* c 33 ..... NASA-CASE-MFS-25477-1
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US-PATENT-APPL-SN-297524
US-PATENT-APPL-SN-350472
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-806
US-PATENT-4,417,190
N84-14461* c 34 ..... NASA-CASE-GSC-12771-1
US-PATENT-APPL-SN-434672
US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-96
US-PATENT-4,420,035
N84-14491* c 35 ..... NASA-CASE-LAR-12686-1
US-PATENT-APPL-SN-249304
US-PATENT-CLASS-364-557
US-PATENT-CLASS-364-558
US-PATENT-CLASS-364-571
US-PATENT-CLASS-73-714
US-PATENT-4,399,515
N84-14509* c 36 ..... NASA-CASE-GSC-12565-1
US-PATENT-APPL-SN-270763
US-PATENT-CLASS-350-299
US-PATENT-CLASS-356-345
US-PATENT-CLASS-372-100
US-PATENT-CLASS-372-108
US-PATENT-CLASS-372-93
US-PATENT-CLASS-372-94
US-PATENT-CLASS-372-98
US-PATENT-4,420,836
N84-14583* c 44 ..... NASA-CASE-NPO-15100-1
US-PATENT-APPL-SN-259211
US-PATENT-CLASS-138-42
US-PATENT-CLASS-251-127
US-PATENT-4,418,722
N84-14873* c 71 ..... NASA-CASE-LAR-11903-2
US-PATENT-APPL-SN-238791
US-PATENT-APPL-SN-753971
US-PATENT-CLASS-239-265.17
US-PATENT-4,398,667
N84-16231* c 15 ..... NASA-CASE-LAR-12751-1
US-PATENT-APPL-SN-338386
US-PATENT-CLASS-73-167
US-PATENT-CLASS-73-432R
US-PATENT-CLASS-73-9
US-PATENT-4,425,785
N84-16255* c 23 ..... NASA-CASE-NPO-15767-1
US-PATENT-APPL-SN-315584
US-PATENT-CLASS-208-10
US-PATENT-CLASS-208-8LE
US-PATENT-4,388,171
N84-16262* c 24 ..... NASA-CASE-MSC-16934-3
US-PATENT-APPL-SN-185868
US-PATENT-APPL-SN-361711
US-PATENT-APPL-SN-969757
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US-PATENT-CLASS-264-118
US-PATENT-CLASS-264-59
US-PATENT-CLASS-264-60
US-PATENT-4,421,700
N84-16276* c 25 ..... NASA-CASE-LEW-13426-1
US-PATENT-APPL-SN-393588
US-PATENT-CLASS-110-186
US-PATENT-CLASS-110-262
US-PATENT-CLASS-110-263
US-PATENT-CLASS-110-265
US-PATENT-CLASS-431-1
US-PATENT-4,425,854
N84-16452* c 33 ..... NASA-CASE-LEW-13570-1
US-PATENT-APPL-SN-251009
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-333-162
US-PATENT-4,422,012
N84-16453* c 33 ..... NASA-CASE-MFS-25430-1
US-PATENT-APPL-SN-383083
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US-PATENT-CLASS-363-65
US-PATENT-CLASS-363-67
US-PATENT-CLASS-363-71
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N84-16454* c 33 ..... NASA-CASE-GSC-12645-1
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US-PATENT-CLASS-324-79R
US-PATENT-CLASS-324-83A
US-PATENT-CLASS-324-83R
US-PATENT-CLASS-328-133
US-PATENT-CLASS-330-289
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N84-16455* c 33 ..... NASA-CASE-MFS-25616-1

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US-PATENT-CLASS-318-799
US-PATENT-CLASS-323-243
US-PATENT-CLASS-323-246
US-PATENT-4,426,614

N84-16456* c 33 ..... NASA-CASE-NPO-15161-1
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US-PATENT-CLASS-427-217
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US-PATENT-CLASS-427-376.7
US-PATENT-CLASS-427-436
US-PATENT-CLASS-427-437
US-PATENT-CLASS-427-58
US-PATENT-CLASS-427-75
US-PATENT-CLASS-427-88
US-PATENT-CLASS-427-96
US-PATENT-4,388,346

N84-16523* c 35 ..... NASA-CASE-LAR-12007-3
US-PATENT-APPL-SN-352831
US-PATENT-CLASS-33-293
US-PATENT-4,428,122

N84-16542* c 36 ..... NASA-CASE-LAR-12870-1
US-PATENT-APPL-SN-317658
US-PATENT-CLASS-372-55
US-PATENT-CLASS-372-79
US-PATENT-4,424,592

N84-16560* c 37 ..... NASA-CASE-MFS-25510-1
US-PATENT-APPL-SN-293414
US-PATENT-CLASS-248-228
US-PATENT-4,422,609

N84-16561* c 37 ..... NASA-CASE-LAR-12785-1
US-PATENT-APPL-SN-297488
US-PATENT-CLASS-239-568
US-PATENT-CLASS-241-95
US-PATENT-CLASS-406-155
US-PATENT-4,428,703

N84-16803* c 54 ..... NASA-CASE-MSC-20202-1
US-PATENT-APPL-SN-414106
US-PATENT-CLASS-128-1A
US-PATENT-CLASS-128-15R
US-PATENT-CLASS-128-38
US-PATENT-4,421,109

N84-16940* c 71 ..... NASA-CASE-NPO-15592-1
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US-PATENT-CLASS-118-300
US-PATENT-CLASS-118-50
US-PATENT-CLASS-118-50.1
US-PATENT-CLASS-118-500
US-PATENT-CLASS-118-57
US-PATENT-CLASS-118-62
US-PATENT-CLASS-427-346
US-PATENT-CLASS-427-421
US-PATENT-CLASS-427-426
US-PATENT-CLASS-427-57
US-PATENT-CLASS-427-6
US-PATENT-CLASS-65-213
US-PATENT-4,425,376

N84-16959*# c 72 ..... NASA-CASE-NPO-15547-1
US-PATENT-APPL-SN-276076

N84-17555* c 35 ..... NASA-CASE-NPO-15426-1
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US-PATENT-CLASS-422-169
US-PATENT-CLASS-422-178
US-PATENT-CLASS-422-186
US-PATENT-CLASS-55-DIG.25
US-PATENT-CLASS-55-DIG.30
US-PATENT-CLASS-55-105
US-PATENT-CLASS-55-12
US-PATENT-CLASS-55-126
US-PATENT-CLASS-55-131
US-PATENT-CLASS-55-138
US-PATENT-CLASS-55-139
US-PATENT-CLASS-55-145
US-PATENT-CLASS-55-2
US-PATENT-CLASS-55-270
US-PATENT-CLASS-55-283
US-PATENT-CLASS-55-291
US-PATENT-CLASS-55-466
US-PATENT-CLASS-55-6
US-PATENT-CLASS-55-96
US-PATENT-CLASS-60-275
US-PATENT-CLASS-60-303
US-PATENT-CLASS-60-311
US-PATENT-4,376,637

N84-22546* c 04 ..... NASA-CASE-GSC-12508-1
US-PATENT-APPL-SN-266253
US-PATENT-CLASS-343-356
US-PATENT-CLASS-343-357
US-PATENT-4,445,118

N84-22551* c 05 ..... NASA-CASE-LAR-12541-1
US-PATENT-APPL-SN-315588
US-PATENT-CLASS-244-212
US-PATENT-CLASS-244-215
US-PATENT-CLASS-244-216
US-PATENT-CLASS-244-219
US-PATENT-4,444,368

N84-22559* c 07 ..... NASA-CASE-LEW-13622-1
US-PATENT-APPL-SN-350473
US-PATENT-CLASS-364-558
US-PATENT-CLASS-73-115
US-PATENT-4,428,226

N84-22560* c 07 ..... NASA-CASE-LEW-13654-1
US-PATENT-APPL-SN-245571
US-PATENT-CLASS-416-224
US-PATENT-CLASS-416-233
US-PATENT-CLASS-416-92
US-PATENT-CLASS-416-97R
US-PATENT-4,411,597

N84-22601* c 16 ..... NASA-CASE-MSC-20254-1
US-PATENT-APPL-SN-418137
US-PATENT-CLASS-244-158A
US-PATENT-CLASS-52-404
US-PATENT-CLASS-52-506
US-PATENT-4,439,968

N84-22605* c 18 ..... NASA-CASE-MSC-18969-1
US-PATENT-APPL-SN-368189
US-PATENT-CLASS-244-161
US-PATENT-CLASS-403-322
US-PATENT-4,431,333

N84-22609*# c 18 ..... NASA-CASE-MFS-15429-1
US-PATENT-APPL-SN-596959

N84-22610*# c 18 ..... NASA-CASE-MSC-20543-1
US-PATENT-APPL-SN-580574

N84-22612*# c 18 ..... NASA-CASE-ARC-11505-1
US-PATENT-APPL-SN-588036

N84-22695* c 24 ..... NASA-CASE-LEW-13837-1
US-PATENT-APPL-SN-495381
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192R
US-PATENT-CLASS-204-192SP
US-PATENT-CLASS-423-DIG.10
US-PATENT-CLASS-423-414
US-PATENT-CLASS-423-445
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-4,437,962

N84-22709* c 25 ..... NASA-CASE-NPO-15210-1
US-PATENT-APPL-SN-322312
US-PATENT-CLASS-208-10
US-PATENT-CLASS-208-8LE
US-PATENT-4,443,321

N84-22734* c 26 ..... NASA-CASE-LEW-13349-1
US-PATENT-APPL-SN-350476
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-427-115
US-PATENT-CLASS-427-125
US-PATENT-CLASS-427-126.6
US-PATENT-CLASS-427-296
US-PATENT-CLASS-427-306
US-PATENT-CLASS-429-223
US-PATENT-CLASS-429-234
US-PATENT-4,439,465

N84-22744* c 27 ..... NASA-CASE-ARC-11402-1
US-PATENT-APPL-SN-366025
US-PATENT-CLASS-260-465.5R
US-PATENT-CLASS-260-465.6
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-CLASS-528-423
US-PATENT-CLASS-544-215
US-PATENT-CLASS-564-243
US-PATENT-4,434,106

N84-22745* c 27 ..... NASA-CASE-ARC-11368-3
US-PATENT-APPL-SN-288267
US-PATENT-APPL-SN-512795
US-PATENT-CLASS-428-370
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-525-417
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-322
US-PATENT-CLASS-548-415
US-PATENT-4,395,557
US-PATENT-4,433,115

N84-22746* c 27 ..... NASA-CASE-LAR-12723-2
US-PATENT-APPL-SN-199768
US-PATENT-APPL-SN-447371
US-PATENT-CLASS-525-426
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-345
US-PATENT-CLASS-528-348
US-PATENT-4,395,540
US-PATENT-4,431,792

N84-22747* c 27 ..... NASA-CASE-LAR-12931-1
US-PATENT-APPL-SN-433598
US-PATENT-CLASS-524-171
US-PATENT-CLASS-525-534
US-PATENT-CLASS-525-535
US-PATENT-CLASS-525-536
US-PATENT-CLASS-528-25
US-PATENT-CLASS-528-26
US-PATENT-4,431,761

N84-22748* c 27 ..... NASA-CASE-NPO-15640-1
US-PATENT-APPL-SN-465367
US-PATENT-CLASS-156-304.3
US-PATENT-CLASS-156-304.6
US-PATENT-CLASS-156-499
US-PATENT-CLASS-156-81
US-PATENT-CLASS-156-89
US-PATENT-4,420,352

N84-22749* c 27 ..... NASA-CASE-LAR-12980-1
US-PATENT-APPL-SN-469866
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-185
US-PATENT-4,444,979

N84-22750* c 27 ..... NASA-CASE-ARC-11370-1
US-PATENT-APPL-SN-491125
US-PATENT-CLASS-525-389
US-PATENT-CLASS-528-394
US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-6
US-PATENT-CLASS-528-7
US-PATENT-CLASS-568-4
US-PATENT-CLASS-568-5
US-PATENT-4,444,972

N84-22820* c 32 ..... NASA-CASE-MSC-18675-1
US-PATENT-APPL-SN-266687
US-PATENT-CLASS-343-17.5
US-PATENT-CLASS-343-9R
US-PATENT-4,439,766

N84-22884* c 33 ..... NASA-CASE-MFS-256704-1
US-PATENT-APPL-SN-409679
US-PATENT-CLASS-204-192EC
US-PATENT-4,437,961

N84-22885* c 33 ..... NASA-CASE-MFS-25535-2
US-PATENT-APPL-SN-476244
US-PATENT-CLASS-318-438
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-805
US-PATENT-CLASS-318-810
US-PATENT-4,433,276

N84-22886* c 33 ..... NASA-CASE-MFS-25323-1
US-PATENT-APPL-SN-297524
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-812
US-PATENT-4,439,718

N84-22887* c 33 ..... NASA-CASE-GSC-12567-1
US-PATENT-APPL-SN-373839
US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-277
US-PATENT-CLASS-330-294
US-PATENT-4,437,069

N84-22903* c 34 ..... NASA-CASE-NPO-15465-1
US-PATENT-APPL-SN-284289
US-PATENT-CLASS-126-417
US-PATENT-CLASS-165-DIG.6
US-PATENT-CLASS-165-135
US-PATENT-CLASS-62-DIG.1
US-PATENT-CLASS-62-264
US-PATENT-CLASS-62-467R
US-PATENT-4,423,605

N84-22928* c 35 ..... NASA-CASE-MFS-25687-1
US-PATENT-APPL-SN-350474
US-PATENT-CLASS-324-262
US-PATENT-CLASS-73-620
US-PATENT-CLASS-73-633
US-PATENT-CLASS-74-58
US-PATENT-4,434,659

N84-22929* c 35 ..... NASA-CASE-MFS-25405-1
US-PATENT-APPL-SN-274708
US-PATENT-CLASS-356-347
US-PATENT-4,428,675

N84-22930* c 35 ..... NASA-CASE-LEW-13598-1
US-PATENT-APPL-SN-425203
US-PATENT-CLASS-101-395
US-PATENT-CLASS-156-630
US-PATENT-CLASS-156-654
US-PATENT-CLASS-156-905
US-PATENT-CLASS-228-165
US-PATENT-4,437,923

N84-22931* c 35 ..... NASA-CASE-NPO-15398-1
US-PATENT-APPL-SN-259212
US-PATENT-CLASS-356-216
US-PATENT-CLASS-356-234
US-PATENT-4,431,306

N84-22932* c 35 ..... NASA-CASE-LAR-12967-1
US-PATENT-APPL-SN-414107

US-PATENT-CLASS-310-317
US-PATENT-CLASS-310-334
US-PATENT-CLASS-310-366
US-PATENT-4,446,396

N84-22933* c 35 ..... NASA-CASE-LAR-12995-1
US-PATENT-APPL-SN-444150
US-PATENT-CLASS-181-121
US-PATENT-CLASS-367-189
US-PATENT-CLASS-73-589
US-PATENT-CLASS-73-594
US-PATENT-4,445,378

N84-22934* c 35 ..... NASA-CASE-ARC-11361-1
US-PATENT-APPL-SN-373771
US-PATENT-CLASS-340-870.13
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-721
US-PATENT-CLASS-73-756
US-PATENT-4,442,716

N84-22943* c 36 ..... NASA-CASE-NPO-15516-1
US-PATENT-APPL-SN-364126
US-PATENT-CLASS-372-20
US-PATENT-CLASS-372-28
US-PATENT-CLASS-372-32
US-PATENT-4,434,490

N84-22944* c 36 ..... NASA-CASE-LEW-13526-1
US-PATENT-APPL-SN-358398
US-PATENT-CLASS-118-50.1
US-PATENT-CLASS-118-624
US-PATENT-CLASS-118-641
US-PATENT-CLASS-427-399
US-PATENT-CLASS-427-53.1
US-PATENT-4,434,189

N84-22957* c 37 ..... NASA-CASE-LEW-13269-2
US-PATENT-APPL-SN-242795
US-PATENT-APPL-SN-431448
US-PATENT-CLASS-415-174
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-423
US-PATENT-CLASS-427-53.1
US-PATENT-CLASS-428-155
US-PATENT-4,377,371
US-PATENT-4,430,360

N84-22958* c 37 ..... NASA-CASE-LEW-12590-1
US-PATENT-APPL-SN-229693
US-PATENT-CLASS-60-730
US-PATENT-CLASS-60-736
US-PATENT-4,429,537

N84-23012*# c 43 ..... NASA-CASE-NPO-15656-1
US-PATENT-APPL-SN-569370

N84-23018* c 44 ..... NASA-CASE-NPO-15496-1
US-PATENT-APPL-SN-379602
US-PATENT-CLASS-290-55
US-PATENT-CLASS-415-DIG.8
US-PATENT-CLASS-415-2R
US-PATENT-CLASS-60-641.12
US-PATENT-CLASS-60-698
US-PATENT-CLASS-60-716
US-PATENT-4,433,544

N84-23019* c 44 ..... NASA-CASE-LAR-12958-1
US-PATENT-APPL-SN-433196
US-PATENT-CLASS-104-DIG.4
US-PATENT-CLASS-204-DIG.3
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-278
US-PATENT-CLASS-204-280
US-PATENT-CLASS-423-303
US-PATENT-CLASS-429-111
US-PATENT-4,439,301

N84-23095* c 52 ..... NASA-CASE-LEW-13107-2
US-PATENT-APPL-SN-444124
US-PATENT-CLASS-156-643
US-PATENT-CLASS-156-644
US-PATENT-CLASS-156-668
US-PATENT-CLASS-204-192E
US-PATENT-4,432,853

N84-23113* c 54 ..... NASA-CASE-MSC-20261-2
US-PATENT-APPL-SN-393581
US-PATENT-CLASS-2-161R
US-PATENT-CLASS-2-167
US-PATENT-4,433,439

N84-23233* c 71 ..... NASA-CASE-NPO-15689-1
US-PATENT-APPL-SN-358089
US-PATENT-CLASS-310-300
US-PATENT-CLASS-318-116
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
US-PATENT-4,420,977

N84-23247* c 74 ..... NASA-CASE-NPO-15345-1
US-PATENT-APPL-SN-276749
US-PATENT-CLASS-358-125
US-PATENT-CLASS-358-213
US-PATENT-4,430,673

N84-23248* c 74 ..... NASA-CASE-GSC-12756-1
US-PATENT-APPL-SN-378535
US-PATENT-CLASS-350-172
US-PATENT-CLASS-350-173
US-PATENT-CLASS-350-443
US-PATENT-4,444,464

N84-24577* c 07 ..... NASA-CASE-LEW-14035-1
US-PATENT-APPL-SN-136652
US-PATENT-CLASS-60-757
US-PATENT-4,414,816

N84-25037*# c 36 ..... NASA-CASE-NPO-16030-1
US-PATENT-APPL-SN-582494

N84-27713* c 04 ..... NASA-CASE-NPO-15264-1
US-PATENT-APPL-SN-241154
US-PATENT-CLASS-343-105R
US-PATENT-CLASS-364-452
US-PATENT-4,396,918

N84-27733* c 06 ..... NASA-CASE-LAR-12630-1
US-PATENT-APPL-SN-383384
US-PATENT-CLASS-340-705
US-PATENT-CLASS-340-971
US-PATENT-CLASS-340-975
US-PATENT-CLASS-340-978
US-PATENT-CLASS-340-980
US-PATENT-CLASS-73-178R
US-PATENT-4,453,163

N84-27749* c 09 ..... NASA-CASE-MFS-25791-1
US-PATENT-APPL-SN-409678
US-PATENT-CLASS-417-159
US-PATENT-CLASS-73-117.1
US-PATENT-4,454,753

N84-27784* c 16 ..... NASA-CASE-MFS-25853-1
US-PATENT-APPL-SN-418138
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-244-172
US-PATENT-CLASS-244-63
US-PATENT-4,452,412

N84-27787* c 18 ..... NASA-CASE-MFS-25878-1
US-PATENT-APPL-SN-431886
US-PATENT-CLASS-244-172
US-PATENT-CLASS-244-2
US-PATENT-CLASS-244-63
US-PATENT-4,451,017

N84-27829* c 24 ..... NASA-CASE-LEW-13758-1
US-PATENT-APPL-SN-418139
US-PATENT-CLASS-73-833
US-PATENT-CLASS-73-856
US-PATENT-4,452,088

N84-27855* c 26 ..... NASA-CASE-LEW-13639-2
US-PATENT-APPL-SN-456460
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-405
US-PATENT-CLASS-427-419.2
US-PATENT-CLASS-428-632
US-PATENT-4,451,496

N84-27884* c 27 ..... NASA-CASE-ARC-11405-1
US-PATENT-APPL-SN-415880
US-PATENT-CLASS-528-271
US-PATENT-CLASS-528-310
US-PATENT-CLASS-528-327
US-PATENT-CLASS-528-331
US-PATENT-CLASS-528-362
US-PATENT-4,450,268

N84-27885* c 27 ..... NASA-CASE-LEW-13770-1
US-PATENT-APPL-SN-404809
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-322
US-PATENT-CLASS-528-342
US-PATENT-4,455,418

N84-27886* c 27 ..... NASA-CASE-LAR-12862-1
US-PATENT-APPL-SN-435511
US-PATENT-CLASS-220-306
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-158A
US-PATENT-4,456,208

N84-27951* c 32 ..... NASA-CASE-NPO-15024-1
US-PATENT-APPL-SN-284287
US-PATENT-CLASS-343-17.7
US-PATENT-CLASS-434-2
US-PATENT-4,450,447

N84-27952* c 32 ..... NASA-CASE-MSC-16170-2
US-PATENT-APPL-SN-147695
US-PATENT-APPL-SN-737975
US-PATENT-CLASS-329-124
US-PATENT-CLASS-375-120
US-PATENT-CLASS-375-77
US-PATENT-CLASS-375-81
US-PATENT-CLASS-455-202
US-PATENT-CLASS-455-208
US-PATENT-CLASS-455-260
US-PATENT-CLASS-455-265
US-PATENT-4,455,680

N84-27974* c 33 ..... NASA-CASE-LEW-13736-1
US-PATENT-APPL-SN-434084
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-331-82
US-PATENT-CLASS-333-162
US-PATENT-4,459,562

N84-27975* c 33 ..... NASA-CASE-MFS-25854-1
US-PATENT-APPL-SN-450166
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-809
US-PATENT-CLASS-323-300
US-PATENT-4,459,528

N84-28015* c 35 ..... NASA-CASE-WLP-10055-1
US-PATENT-APPL-SN-352827
US-PATENT-CLASS-73-862.65
US-PATENT-4,425,808

N84-28016* c 35 ..... NASA-CASE-NPO-15423-1
US-PATENT-APPL-SN-361216
US-PATENT-CLASS-250-296
US-PATENT-4,435,642

N84-28017* c 35 ..... NASA-CASE-NPO-15706-1
US-PATENT-APPL-SN-350475
US-PATENT-CLASS-310-154
US-PATENT-CLASS-310-171
US-PATENT-CLASS-310-68B
US-PATENT-CLASS-335-222
US-PATENT-4,443,724

N84-28018* c 35 ..... NASA-CASE-MFS-25754-1
US-PATENT-APPL-SN-359626
US-PATENT-CLASS-33-169F
US-PATENT-CLASS-62-128
US-PATENT-CLASS-73-150R
US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-32R
US-PATENT-CLASS-73-864.41
US-PATENT-4,398,412

N84-28019* c 35 ..... NASA-CASE-LAR-12743-1
US-PATENT-APPL-SN-372279
US-PATENT-CLASS-374-1
US-PATENT-CLASS-73-1B
US-PATENT-4,426,874

N84-28065* c 36 ..... NASA-CASE-GSC-12592-1
US-PATENT-APPL-SN-199766
US-PATENT-CLASS-372-103
US-PATENT-CLASS-372-4
US-PATENT-CLASS-372-71
US-PATENT-CLASS-372-93
US-PATENT-CLASS-372-95
US-PATENT-4,446,556

N84-28081* c 37 ..... NASA-CASE-NPO-14597-2
US-PATENT-APPL-SN-037194
US-PATENT-APPL-SN-401288
US-PATENT-CLASS-417-328
US-PATENT-CLASS-417-392
US-PATENT-CLASS-417-462
US-PATENT-4,449,894

N84-28082* c 37 ..... NASA-CASE-GSC-12550-1
US-PATENT-APPL-SN-238888
US-PATENT-CLASS-73-468
US-PATENT-CLASS-74-5.5
US-PATENT-CLASS-74-573R
US-PATENT-4,458,554

N84-28083* c 37 ..... NASA-CASE-GSC-12762-1
US-PATENT-APPL-SN-364094
US-PATENT-CLASS-269-224
US-PATENT-CLASS-269-242
US-PATENT-CLASS-269-244
US-PATENT-CLASS-269-252
US-PATENT-CLASS-269-285
US-PATENT-4,448,408

N84-28084* c 37 ..... NASA-CASE-LAR-12644-1
US-PATENT-APPL-SN-387728
US-PATENT-CLASS-74-753
US-PATENT-CLASS-74-758
US-PATENT-CLASS-74-812
US-PATENT-4,446,757

N84-28085* c 37 ..... NASA-CASE-LAR-12786-1
US-PATENT-APPL-SN-309292
US-PATENT-CLASS-30-180
US-PATENT-CLASS-30-188
US-PATENT-CLASS-30-228
US-PATENT-CLASS-30-249
US-PATENT-CLASS-30-272R
US-PATENT-4,458,418

N84-28203* c 44 ..... NASA-CASE-NPO-15388-1
US-PATENT-APPL-SN-284286
US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-451
US-PATENT-4,433,672

N84-28204* c 44 ..... NASA-CASE-NPO-15662-1
US-PATENT-APPL-SN-392103
US-PATENT-CLASS-126-418
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-440
US-PATENT-4,449,514

N84-28205* c 44 ..... NASA-CASE-LEW-13653-1
US-PATENT-APPL-SN-352821
US-PATENT-CLASS-204-290
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-29-825
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-115

US-PATENT-CLASS-427-125
US-PATENT-CLASS-427-226
US-PATENT-CLASS-427-372.2
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-443
US-PATENT-CLASS-429-44
US-PATENT-4,454,649

N84-28292* c 47 ..... NASA-CASE-LAR-12971-1
US-PATENT-APPL-SN-444149
US-PATENT-CLASS-250-356.1
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-861.71
US-PATENT-4,449,400

N84-28361* c 51 ..... NASA-CASE-ARC-11359-1
US-PATENT-APPL-SN-392092
US-PATENT-CLASS-264-41
US-PATENT-CLASS-521-141
US-PATENT-CLASS-521-142
US-PATENT-CLASS-521-149
US-PATENT-4,456,708

N84-28388* c 52 ..... NASA-CASE-LAR-12650-1
US-PATENT-APPL-SN-264381
US-PATENT-CLASS-128-325
US-PATENT-CLASS-128-346
US-PATENT-CLASS-24-560
US-PATENT-4,416,266

N84-28389* c 52 ..... NASA-CASE-LAR-12650-2
US-PATENT-APPL-SN-264381
US-PATENT-APPL-SN-465363
US-PATENT-CLASS-156-191
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-382
US-PATENT-CLASS-29-423
US-PATENT-CLASS-29-451
US-PATENT-4,447,943

N84-28484* c 54 ..... NASA-CASE-MSC-20261-1
US-PATENT-APPL-SN-393586
US-PATENT-CLASS-2-161R
US-PATENT-CLASS-2-164
US-PATENT-CLASS-2-167
US-PATENT-4,454,611

N84-28491* c 60 ..... NASA-CASE-GSC-12447-2
US-PATENT-APPL-SN-128230
US-PATENT-APPL-SN-501060
US-PATENT-CLASS-364-900
US-PATENT-4,435,781

N84-28492* c 60 ..... NASA-CASE-MSC-20258-1
US-PATENT-APPL-SN-235472
US-PATENT-CLASS-340-825.21
US-PATENT-CLASS-340-825.5
US-PATENT-CLASS-364-900
US-PATENT-4,446,459

N84-28565* c 70 ..... NASA-CASE-LEW-12919-2
US-PATENT-APPL-SN-264378
US-PATENT-APPL-SN-364072
US-PATENT-CLASS-313-106
US-PATENT-CLASS-313-107
US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-5.38
US-PATENT-4,349,424
US-PATENT-4,417,175

N84-28568* c 71 ..... NASA-CASE-MFS-25828-1
US-PATENT-APPL-SN-493866
US-PATENT-CLASS-137-838
US-PATENT-CLASS-366-106
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-160
US-PATENT-CLASS-65-21.3
US-PATENT-CLASS-65-21.4
US-PATENT-4,447,251

N84-28575* c 72 ..... NASA-CASE-MFS-25641-1
US-PATENT-APPL-SN-342857
US-PATENT-CLASS-250-305
US-PATENT-CLASS-324-457
US-PATENT-CLASS-324-71.3
US-PATENT-CLASS-324-72.5
US-PATENT-4,455,532

N84-28590* c 74 ..... NASA-CASE-NPO-15805-1
US-PATENT-APPL-SN-296137
US-PATENT-CLASS-250-332
US-PATENT-CLASS-250-338
US-PATENT-4,443,701

N84-28732* c 02 ..... NASA-CASE-LAR-12396-1
US-PATENT-APPL-SN-017889
US-PATENT-CLASS-244-35R
US-PATENT-CLASS-416-223R
US-PATENT-CLASS-416-242
US-PATENT-4,459,083

N84-32447* # c 25 ..... NAS 1.71:LAR-13257-1
NASA-CASE-LAR-13257-1
US-PATENT-APPL-SN-633178

N84-33394* c 03 ..... NAS 1.71:ARC-11423-1
NASA-CASE-ARC-11423-1
US-PATENT-APPL-SN-452466
US-PATENT-CLASS-297-DIG.5
US-PATENT-CLASS-428-246
US-PATENT-CLASS-428-280
US-PATENT-CLASS-428-287
US-PATENT-CLASS-428-304.4
US-PATENT-CLASS-428-319.1
US-PATENT-CLASS-428-423.5
US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-76
US-PATENT-CLASS-428-921
US-PATENT-CLASS-5-459
US-PATENT-4,463,465

N84-33400* # c 05 ..... NAS 1.71:LAR-13233-1
NASA-CASE-LAR-13233-1
US-PATENT-APPL-SN-649329

N84-33410* c 07 ..... NAS 1.71:LEW-13524-1
NASA-CASE-LEW-13524-1
US-PATENT-APPL-SN-238257
US-PATENT-CLASS-415-115
US-PATENT-CLASS-60-39.29
US-PATENT-CLASS-60-39.83
US-PATENT-4,416,111

N84-33450* c 18 ..... NAS 1.71:LAR-12884
NASA-CASE-LAR-12884-1
US-PATENT-APPL-SN-510136
US-PATENT-CLASS-428-182
US-PATENT-CLASS-428-184
US-PATENT-CLASS-428-595
US-PATENT-CLASS-52-814
US-PATENT-4,472,473

N84-33555* c 26 ..... NAS 1.71:LEW-13639-1
NASA-CASE-LEW-13639-1
US-PATENT-APPL-SN-403378
US-PATENT-CLASS-416-241R
US-PATENT-CLASS-428-564
US-PATENT-CLASS-428-639
US-PATENT-CLASS-428-678
US-PATENT-4,446,199

N84-33589* c 27 ..... NAS 1.71:NPO-15753-1
NASA-CASE-NPO-15753-1
US-PATENT-APPL-SN-342871
US-PATENT-CLASS-219-203
US-PATENT-CLASS-219-219
US-PATENT-CLASS-219-522
US-PATENT-CLASS-219-541
US-PATENT-CLASS-219-543
US-PATENT-CLASS-338-309
US-PATENT-CLASS-428-432
US-PATENT-4,459,470

N84-33660* c 33 ..... NAS 1.71:MFS-25302-2
NASA-CASE-MFS-25302-2
US-PATENT-APPL-SN-243683
US-PATENT-APPL-SN-481086
US-PATENT-CLASS-307-87
US-PATENT-CLASS-322-25
US-PATENT-CLASS-322-29
US-PATENT-CLASS-322-47
US-PATENT-CLASS-322-95
US-PATENT-4,388,585
US-PATENT-4,473,792

N84-33661* c 33 ..... NAS 1.71:MFS-25852-1
NASA-CASE-MFS-25852-1
US-PATENT-APPL-SN-450319
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-802
US-PATENT-4,469,998

N84-33663* c 33 ..... NAS 1.71:LEW-13495-1
NASA-CASE-LEW-13495-1
US-PATENT-APPL-SN-368188
US-PATENT-CLASS-323-901
US-PATENT-CLASS-363-22
US-PATENT-CLASS-363-49
US-PATENT-4,464,710

N84-33765* c 35 ..... NAS 1.71:GSC-12682-1
NASA-CASE-GSC-12682-1
US-PATENT-APPL-SN-350477
US-PATENT-CLASS-250-367
US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-483.1
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-32
US-PATENT-4,472,728

N84-33766* c 35 ..... NAS 1.71:NPO-13556-1
NASA-CASE-NPO-13556-1
US-PATENT-APPL-SN-561369
US-PATENT-CLASS-250-339
US-PATENT-CLASS-356-188
US-PATENT-CLASS-356-189
US-PATENT-CLASS-356-73
US-PATENT-CLASS-356-74
US-PATENT-4,043,668

N84-33767* c 35 ..... NAS 1.71:NPO-15644-1
NASA-CASE-NPO-15644-1
US-PATENT-APPL-SN-358088
US-PATENT-CLASS-250-251
US-PATENT-CLASS-250-252.1
US-PATENT-CLASS-250-372
US-PATENT-4,469,942

N84-33768* c 35 ..... NAS 1.71:MFS-25717-1
NASA-CASE-MFS-25717-1
US-PATENT-APPL-SN-441897
US-PATENT-CLASS-175-45
US-PATENT-CLASS-299-1
US-PATENT-4,466,667

N84-33769* c 35 ..... NAS 1.71:NPO-15341-1
NASA-CASE-NPO-15341-1
US-PATENT-APPL-SN-315583
US-PATENT-CLASS-180-168
US-PATENT-CLASS-318-587
US-PATENT-CLASS-340-905
US-PATENT-CLASS-340-988
US-PATENT-4,472,716

N84-33807* c 37 ..... NAS 1.71:MFS-25862-2
NASA-CASE-MFS-25862-2
US-PATENT-APPL-SN-460509
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-588
US-PATENT-4,470,293

N84-33808* c 37 ..... NAS 1.71:LEW-12995-1
NASA-CASE-LEW-12995-1
US-PATENT-APPL-SN-157150
US-PATENT-CLASS-60-303
US-PATENT-CLASS-60-606
US-PATENT-4,449,370

N84-34443* c 06 ..... NASA-CASE-NPO-15351-2
US-PATENT-APPL-SN-224231
US-PATENT-APPL-SN-412039
US-PATENT-CLASS-73-178-R
US-PATENT-4,346,595
US-PATENT-4,474,062

N84-34448* c 09 ..... NASA-CASE-LAR-12950-1
US-PATENT-APPL-SN-481106
US-PATENT-CLASS-73-147
US-PATENT-4,475,385

N84-34571* c 24 ..... NAS 1.71:LAR-13230-1
NASA-CASE-LAR-13230-1
US-PATENT-APPL-SN-548584
US-PATENT-CLASS-523-454
US-PATENT-CLASS-523-458
US-PATENT-CLASS-525-484
US-PATENT-CLASS-528-407
US-PATENT-CLASS-528-92
US-PATENT-4,473,674

N84-34651* c 32 ..... NAS 1.71:NPO-15519-1
NASA-CASE-NPO-15519-1
US-PATENT-APPL-SN-314928
US-PATENT-CLASS-343-5-CM
US-PATENT-CLASS-343-5-DP
US-PATENT-CLASS-343-5-FT
US-PATENT-4,471,357

N84-34705* c 35 ..... NAS 1.71:NPO-15558-1
NASA-CASE-NPO-15558-1
US-PATENT-APPL-SN-373770
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-351
US-PATENT-CLASS-356-434
US-PATENT-CLASS-356-51
US-PATENT-4,474,471

N84-34792* c 44 ..... NAS 1.71:NPO-15808-1
NASA-CASE-NPO-15808-1
US-PATENT-APPL-SN-383068
US-PATENT-CLASS-126-415
US-PATENT-CLASS-4-498
US-PATENT-4,470,403

N84-34913* c 52 ..... NASA-CASE-GSC-12652-1
US-PATENT-APPL-SN-377891
US-PATENT-CLASS-128-24-A
US-PATENT-CLASS-128-328
US-PATENT-4,474,180

N84-35112* # c 76 ..... NASA-CASE-NPO-15786-1
US-PATENT-APPL-SN-366103
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-204-37.6
US-PATENT-CLASS-204-56R
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158T
US-PATENT-4,462,871

N84-35113* c 76 ..... NASA-CASE-NPO-15629-1
US-PATENT-APPL-SN-371351
US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-DIG.98
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617-SP
US-PATENT-CLASS-156-617-V
US-PATENT-CLASS-422-246
US-PATENT-CLASS-422-249
US-PATENT-4,469,552

N85-19985* c 08 ..... NAS 1.71:LAR-12787-2
NASA-CASE-LAR-12787-2

US-PATENT-APPL-SN-301078
US-PATENT-APPL-SN-5226628
US-PATENT-CLASS-244-214
US-PATENT-CLASS-244-90R
US-PATENT-4,485,992
N85-19990* c 09 ..... NAS 1.71:KSC-11218-1
NASA-CASE-KSC-11218-1
US-PATENT-APPL-SN-387649
US-PATENT-CLASS-434-242
US-PATENT-CLASS-434-243
US-PATENT-CLASS-434-35
US-PATENT-CLASS-434-49
US-PATENT-4,490,117
N85-20123* c 27 ..... NAS 1.71:LAR-12723-1
NASA-CASE-LAR-12723-1
US-PATENT-APPL-SN-199768
US-PATENT-CLASS-525-420
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-192
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-336
US-PATENT-CLASS-528-345
US-PATENT-4,395,540
N85-20124* c 27 ..... NAS 1.71:LAR-12858-2
NASA-CASE-LAR-12858-2
US-PATENT-APPL-SN-407240
US-PATENT-APPL-SN-492282
US-PATENT-CLASS-264-DIG.65
US-PATENT-CLASS-264-112
US-PATENT-CLASS-264-120
US-PATENT-CLASS-264-137
US-PATENT-CLASS-264-152
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-331.12
US-PATENT-CLASS-264-331.19
US-PATENT-CLASS-528-226
US-PATENT-CLASS-528-239
US-PATENT-CLASS-528-241
US-PATENT-CLASS-528-258
US-PATENT-CLASS-528-279
US-PATENT-4,398,021
US-PATENT-4,489,027
N85-20125* c 27 ..... NAS 1.71:LAR-12894-1
NASA-CASE-LAR-12894-1
US-PATENT-APPL-SN-516087
US-PATENT-CLASS-156-273.7
US-PATENT-CLASS-24-304
US-PATENT-CLASS-24-447
US-PATENT-CLASS-24-450
US-PATENT-CLASS-24-693
US-PATENT-4,488,335
N85-20126* c 27 ..... NAS 1.71:MFS-25862-1
NASA-CASE-MFS-25862-1
US-PATENT-APPL-SN-465366
US-PATENT-CLASS-73-579
US-PATENT-CLASS-73-582
US-PATENT-CLASS-73-588
US-PATENT-4,479,386
N85-20153* c 31 ..... NAS 1.71:LEW-14080-1
NASA-CASE-LEW-14080-1
US-PATENT-APPL-SN-628866
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192R
US-PATENT-CLASS-204-192SP
US-PATENT-CLASS-423-DIG.10
US-PATENT-CLASS-423-414
US-PATENT-CLASS-423-445
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-4,490,229
N85-20294* c 35 ..... NAS 1.71:GSC-12789-1
NASA-CASE-GSC-12789-1
US-PATENT-APPL-SN-409680
US-PATENT-CLASS-177-147
US-PATENT-CLASS-177-260
US-PATENT-CLASS-73-862.54
US-PATENT-4,479,560
N85-20295* c 35 ..... NAS 1.71:LAR-13065-1
NASA-CASE-LAR-13065-1
US-PATENT-APPL-SN-484745
US-PATENT-CLASS-73-187
US-PATENT-4,485,671
N85-20300*# c 35 ..... NAS 1.71:MFS-28008-1
NASA-CASE-MFS-28008-1
US-PATENT-APPL-SN-684194
N85-20337* c 37 ..... NAS 1.71:GSC-12582-2
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US-PATENT-CLASS-251-284
US-PATENT-CLASS-251-297
US-PATENT-CLASS-74-424.8B
US-PATENT-CLASS-74-424.8VA
US-PATENT-4,483,512
N85-20530* c 44 ..... NAS 1.71:LEW-13414-1
NASA-CASE-LEW-13414-1
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US-PATENT-CLASS-427-85
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N85-21147* c 05 ..... NAS 1.71:LAR-12979-1
NASA-CASE-LAR-12979-1
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US-PATENT-CLASS-244-147
US-PATENT-CLASS-244-75R
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N85-21178* c 09 ..... NAS 1.71:LAR-13014-1
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US-PATENT-CLASS-204-192R
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US-PATENT-CLASS-526-274
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US-PATENT-CLASS-528-168
US-PATENT-CLASS-528-170
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US-PATENT-CLASS-528-186
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US-PATENT-CLASS-417-417
US-PATENT-CLASS-417-488
US-PATENT-CLASS-62-6
US-PATENT-CLASS-92-98R
US-PATENT-4,500,265
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US-PATENT-CLASS-358-217
US-PATENT-CLASS-358-219
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US-PATENT-CLASS-315-111.81
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US-PATENT-CLASS-73-708
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US-PATENT-CLASS-73-753
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US-PATENT-CLASS-356-45
US-PATENT-CLASS-374-137
US-PATENT-CLASS-73-705
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US-PATENT-CLASS-81-177G
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US-PATENT-CLASS-125-15
US-PATENT-CLASS-51-73R
US-PATENT-CLASS-82-90
US-PATENT-CLASS-83-664
US-PATENT-CLASS-83-676
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US-PATENT-CLASS-357-30
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US-PATENT-CLASS-307-66
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US-PATENT-CLASS-318-729
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US-PATENT-CLASS-356-331
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US-PATENT-CLASS-525-47
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US-PATENT-CLASS-526-329.2
US-PATENT-CLASS-528-288
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US-PATENT-CLASS-528-304
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N85-29083* c 31 ..... NASA-CASE-LAR-13181-1
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US-PATENT-CLASS-156-273.9
US-PATENT-CLASS-156-380.2
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US-PATENT-CLASS-219-10.53
US-PATENT-CLASS-219-10.77
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US-PATENT-CLASS-364-453
US-PATENT-CLASS-74-5.6D
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US-PATENT-CLASS-331-31
US-PATENT-CLASS-331-36C
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US-PATENT-CLASS-331-96
US-PATENT-CLASS-333-231
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US-PATENT-CLASS-307-520
US-PATENT-CLASS-307-521
US-PATENT-CLASS-307-529
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US-PATENT-CLASS-363-19
US-PATENT-CLASS-363-23
US-PATENT-CLASS-363-61
US-PATENT-CLASS-363-71
US-PATENT-CLASS-378-104
US-PATENT-CLASS-378-112
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US-PATENT-APPL-SN-507626
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US-PATENT-CLASS-165-32
US-PATENT-CLASS-310-306
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US-PATENT-CLASS-165-1
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US-PATENT-CLASS-204-430
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US-PATENT-CLASS-422-88
US-PATENT-CLASS-436-2
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US-PATENT-CLASS-73-863.86
US-PATENT-CLASS-73-864.52
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US-PATENT-CLASS-165-61
US-PATENT-CLASS-165-64
US-PATENT-CLASS-244-163
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US-PATENT-CLASS-364-556
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US-PATENT-APPL-SN-431420
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US-PATENT-CLASS-415-68
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US-PATENT-CLASS-239-327
US-PATENT-CLASS-239-375
US-PATENT-CLASS-239-590
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US-PATENT-CLASS-416-500
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US-PATENT-CLASS-248-555
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US-PATENT-CLASS-429-57
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US-PATENT-CLASS-356-244
US-PATENT-CLASS-356-446
US-PATENT-CLASS-56-73
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US-PATENT-CLASS-73-863.31
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US-PATENT-CLASS-343-418
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US-PATENT-CLASS-340-968
US-PATENT-CLASS-364-433
US-PATENT-CLASS-364-435
US-PATENT-CLASS-73-178T
US-PATENT-4,586,140
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US-PATENT-CLASS-244-234
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US-PATENT-CLASS-318-584
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US-PATENT-CLASS-528-174
US-PATENT-CLASS-528-176
US-PATENT-4,587,312

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US-PATENT-CLASS-525-108
US-PATENT-CLASS-525-115
US-PATENT-CLASS-525-119
US-PATENT-CLASS-525-122
US-PATENT-4,588,778

N86-27513* c 32 ..... NASA-CASE-KSC-11285-1
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US-PATENT-CLASS-340-347DD
US-PATENT-CLASS-365-768
US-PATENT-4,588,986

N86-27593* c 34 ..... NASA-CASE-MSC-20812-1
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US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-41
US-PATENT-4,583,587

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US-PATENT-CLASS-318-632
US-PATENT-CLASS-318-663
US-PATENT-CLASS-318-8
US-PATENT-4,591,772

N86-27630* c 37 ..... NASA-CASE-LAR-13250-1
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US-PATENT-CLASS-403-388
US-PATENT-CLASS-403-408.1
US-PATENT-4,579,475

N86-27706* c 44 ..... NASA-CASE-NPO-16236-1
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US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-438
US-PATENT-4,586,487

N86-28131* c 24 ..... NASA-CASE-ARC-11615-1SB
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US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-921
US-PATENT-CLASS-526-265
US-PATENT-4,598,007

N86-28618* c 54 ..... NASA-CASE-ARC-11616-1
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US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-2.1R
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US-PATENT-CLASS-414-5
US-PATENT-CLASS-414-7
US-PATENT-CLASS-414-8
US-PATENT-4,593,415

N86-28619* c 54 ..... NASA-CASE-ARC-11610-1
US-PATENT-APPL-SN-684190
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US-PATENT-CLASS-2-2.1R
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US-PATENT-4,598,427

N86-28620* c 54 ..... NASA-CASE-ARC-11543-1
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US-PATENT-CLASS-285-168
US-PATENT-CLASS-414-7
US-PATENT-4,594,734

N86-28732* c 74 ..... NASA-CASE-GSC-12825-1
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US-PATENT-CLASS-350-505
US-PATENT-CLASS-354-479
US-PATENT-CLASS-358-222
US-PATENT-4,598,981

N86-28760* c 76 ..... NASA-CASE-NPO-15904-1
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US-PATENT-CLASS-156-610
US-PATENT-CLASS-156-624
US-PATENT-4,596,626

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US-PATENT-CLASS-264-236
US-PATENT-CLASS-264-347
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-341
US-PATENT-4,595,548

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US-PATENT-CLASS-340-347CC
US-PATENT-CLASS-340-347SY
US-PATENT-4,594,540

N86-29174* c 35 ..... NASA-CASE-LAR-13254-1CU
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US-PATENT-CLASS-55-521
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US-PATENT-CLASS-285-184
US-PATENT-CLASS-285-227
US-PATENT-CLASS-403-164
US-PATENT-4,598,428

N86-29650* # c 74 ..... NASA-CASE-GSC-12911-1
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US-PATENT-CLASS-350-318
US-PATENT-CLASS-356-402
US-PATENT-CLASS-356-419
US-PATENT-4,599,001

N86-31726* # c 27 ..... NASA-CASE-ARC-11421-2
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US-PATENT-CLASS-528-322
US-PATENT-4,600,769

N86-31727* c 27 ..... NASA-CASE-LAR-13351-1
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US-PATENT-CLASS-264-236
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US-PATENT-CLASS-427-164
US-PATENT-CLASS-427-165
US-PATENT-CLASS-428-336
US-PATENT-CLASS-428-473.5
US-PATENT-4,603,061

N86-32266* c 74 ..... NASA-CASE-GSC-12761-1
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US-PATENT-CLASS-356-4.5
US-PATENT-CLASS-356-5
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US-PATENT-4,605,303

N86-32525* c 23 ..... NASA-CASE-ARC-11506-2
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US-PATENT-CLASS-528-399
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US-PATENT-CLASS-528-407
US-PATENT-4,587,324

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US-PATENT-CLASS-425-6
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US-PATENT-CLASS-65-21.2
US-PATENT-CLASS-73-505
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US-PATENT-CLASS-528-347
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US-PATENT-CLASS-568-14
US-PATENT-4,602,081

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US-PATENT-CLASS-204-192D
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US-PATENT-4,604,181

N86-32587* c 31 ..... NASA-CASE-LEW-14130-1
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US-PATENT-CLASS-204-192D
US-PATENT-CLASS-204-298
US-PATENT-CLASS-313-106
US-PATENT-CLASS-313-107
US-PATENT-CLASS-315-5.38
US-PATENT-CLASS-427-39
US-PATENT-4,607,193

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US-PATENT-CLASS-331-66
US-PATENT-CLASS-374-183
US-PATENT-4,603,306

N86-32695* # c 35 ..... NASA-CASE-NPO-16479-1CU
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US-PATENT-CLASS-73-502
US-PATENT-CLASS-73-521
US-PATENT-4,602,509

N86-32696* c 35 ..... NASA-CASE-LAR-13294-1
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US-PATENT-CLASS-73-862.04
US-PATENT-CLASS-73-862.61
US-PATENT-4,604,903

N86-32697* c 35 ..... NAS 1.71:ARC-11510-1
NASA-CASE-ARC-11510-1
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US-PATENT-CLASS-356-72
US-PATENT-CLASS-356-73
US-PATENT-CLASS-434-4
US-PATENT-4,600,301

N86-32698* c 35 ..... NASA-CASE-MFS-25833-1
US-PATENT-APPL-SN-473827
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US-PATENT-CLASS-324-238
US-PATENT-CLASS-324-240
US-PATENT-CLASS-324-262
US-PATENT-CLASS-73-37.5
US-PATENT-4,551,677

N86-32736* # c 37 ..... NASA-CASE-MFS-19796-1
US-PATENT-APPL-SN-770920
US-PATENT-CLASS-138-97
US-PATENT-CLASS-165-76
US-PATENT-CLASS-228-119
US-PATENT-CLASS-29-402.16
US-PATENT-4,605,155

N86-32737* c 37 ..... NASA-CASE-LAR-13081-1
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US-PATENT-CLASS-52-632
US-PATENT-CLASS-52-645
US-PATENT-CLASS-52-646
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US-PATENT-CLASS-417-475
US-PATENT-4,604,038

N86-32875* c 44 ..... NASA-CASE-LEW-14177-1
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US-PATENT-CLASS-148-1.5
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US-PATENT-CLASS-29-576B
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-91

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US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-340
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N86-33138*# c 74 ..... NAS 1.71:NPO-16869
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N87-10231*# c 33 ..... NAS 1.71:NPO-16784-1
NASA-CASE-NPO-16784-1
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US-PATENT-CLASS-250-370
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US-PATENT-CLASS-357-23.12
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-52
US-PATENT-4,605,946
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US-PATENT-CLASS-244-137-A
US-PATENT-CLASS-244-17.27
US-PATENT-CLASS-248-638
US-PATENT-CLASS-89-1.54
US-PATENT-4,616,793
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US-PATENT-4,618,215
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US-PATENT-CLASS-16-370
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US-PATENT-CLASS-403-119
US-PATENT-CLASS-403-146
US-PATENT-CLASS-403-163
US-PATENT-CLASS-403-85
US-PATENT-4,615,637
N87-14420* c 20 ..... NASA-CASE-MFS-25989-1
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US-PATENT-CLASS-239-403
US-PATENT-CLASS-239-425
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-746
US-PATENT-4,621,492
N87-14482* c 26 ..... NASA-CASE-LEW-13834-1
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US-PATENT-CLASS-148-429
US-PATENT-CLASS-420-460
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US-PATENT-APPL-SN-790596
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US-PATENT-CLASS-254-93-R
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US-PATENT-CLASS-269-246
US-PATENT-CLASS-72-750
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US-PATENT-CLASS-104-49
US-PATENT-CLASS-244-159
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US-PATENT-CLASS-342-51
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US-PATENT-CLASS-331-94.1
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US-PATENT-CLASS-244-12.4
US-PATENT-CLASS-244-207
US-PATENT-CLASS-244-45-A
US-PATENT-CLASS-244-55
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US-PATENT-CLASS-431-13
US-PATENT-CLASS-431-76
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US-PATENT-APPL-SN-898449
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US-PATENT-CLASS-427-245
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N88-29076* c 32 ..... NASA-CASE-NPO-17196-1-CU
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US-PATENT-CLASS-331-25
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US-PATENT-CLASS-165-905
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US-PATENT-APPL-SN-846429
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US-PATENT-CLASS-340-580
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US-PATENT-APPL-SN-684186
US-PATENT-APPL-SN-890982
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US-PATENT-CLASS-73-304-R
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US-PATENT-CLASS-403-217
US-PATENT-CLASS-52-646
US-PATENT-CLASS-52-648
US-PATENT-4,763,459
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US-PATENT-CLASS-188-251-A
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N88-29602*# c 76 ..... NAS 1.71:MFS-28282-1
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US-PATENT-CLASS-156-275.5
US-PATENT-CLASS-156-307.7
US-PATENT-4,767,484
N88-30131* c 37 ..... NASA-CASE-MSC-20900-1
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US-PATENT-CLASS-219-121.56
US-PATENT-CLASS-219-121.57
US-PATENT-CLASS-219-124.02
US-PATENT-CLASS-219-130.4
US-PATENT-4,766,286
N88-30160*# c 39 ..... NAS 1.71:LAR-13889-1
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N89-11738* c 05 ..... NASA-CASE-LAR-12852-1
US-PATENT-APPL-SN-028832
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US-PATENT-CLASS-244-78
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N89-11961* c 32 ..... NASA-CASE-MSC-20873-1-SB
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US-PATENT-CLASS-342-375
US-PATENT-CLASS-343-777
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N89-12048* c 35 ..... NASA-CASE-LEW-14297-1
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US-PATENT-CLASS-126-901
US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-904
US-PATENT-4,770,232
N89-12551* c 02 ..... NASA-CASE-LAR-13554-1
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US-PATENT-CLASS-116-265
US-PATENT-CLASS-73-147
US-PATENT-4,774,835
N89-12621* c 18 ..... NASA-CASE-MSC-21096-1
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US-PATENT-CLASS-182-103
US-PATENT-CLASS-212-225
US-PATENT-CLASS-212-257
US-PATENT-CLASS-414-689
US-PATENT-CLASS-414-718
US-PATENT-CLASS-414-735
US-PATENT-4,772,175

N89-12667* c 23 ..... NASA-CASE-LAR-13444-2-CU
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US-PATENT-CLASS-564-344
US-PATENT-CLASS-564-396
US-PATENT-CLASS-564-430
US-PATENT-4,774,359

N89-12741* c 27 ..... NASA-CASE-LAR-13506-1
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US-PATENT-CLASS-156-299
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US-PATENT-CLASS-428-47
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US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-76
US-PATENT-4,774,118

N89-12785* c 31 ..... NASA-CASE-NPO-17085-1-CU
US-PATENT-APPL-SN-087282
US-PATENT-CLASS-165-61
US-PATENT-CLASS-165-96
US-PATENT-CLASS-62-467
US-PATENT-CLASS-62-514-R
US-PATENT-4,771,823

N89-12786* c 31 ..... NASA-CASE-LAR-13438-1
US-PATENT-APPL-SN-022298
US-PATENT-CLASS-428-182
US-PATENT-CLASS-52-814
US-PATENT-CLASS-52-821
US-PATENT-4,769,968

N89-12841* c 35 ..... NASA-CASE-LAR-13569-1
US-PATENT-APPL-SN-010943
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-180
US-PATENT-4,770,032

N89-12842*# c 35 ..... NAS 1.71:MSC-21372-1
NASA-CASE-MSC-21372-1
US-PATENT-APPL-SN-246595

N89-12866*# c 37 ..... NAS 1.71:MSC-21095-1
NASA-CASE-MSC-21095-1
US-PATENT-APPL-SN-248010

N89-12867*# c 37 ..... NAS 1.71:LAR-13719-1
NASA-CASE-LAR-13719-1
US-PATENT-APPL-SN-239260

N89-12868*# c 37 ..... NAS 1.71:MFS-29291-1
NASA-CASE-MFS-29291-1
US-PATENT-APPL-SN-250196

N89-13236* c 71 ..... NASA-CASE-NPO-16896-1-CU
US-PATENT-APPL-SN-087283
US-PATENT-CLASS-73-505
US-PATENT-4,773,266

N89-13253*# c 74 ..... NAS 1.71:MFS-28183-1
NASA-CASE-MFS-28183-1
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N89-13785* c 37 ..... NASA-CASE-NPO-16766-1-CU
US-PATENT-APPL-SN-921577
US-PATENT-CLASS-194-902
US-PATENT-CLASS-269-267
US-PATENT-CLASS-294-88
US-PATENT-4,770,455

N89-13786* c 37 ..... NASA-CASE-KSC-11368-1
US-PATENT-APPL-SN-052940
US-PATENT-CLASS-285-107
US-PATENT-CLASS-285-108
US-PATENT-CLASS-285-109
US-PATENT-CLASS-285-133.1
US-PATENT-CLASS-285-351
US-PATENT-CLASS-285-39
US-PATENT-CLASS-285-97
US-PATENT-4,772,050

N89-13889*# c 54 ..... NAS 1.71:MSC-21364-1
NASA-CASE-MSC-21364-1
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N89-14077* c 74 ..... NASA-CASE-NPO-17140-1-CU
US-PATENT-APPL-SN-125021
US-PATENT-CLASS-250-216
US-PATENT-CLASS-350-354
US-PATENT-4,772,785

N89-14078* c 74 ..... NASA-CASE-NPO-16750-1-CU
US-PATENT-APPL-SN-927972
US-PATENT-CLASS-350-162.13
US-PATENT-CLASS-350-331-R
US-PATENT-CLASS-350-337
US-PATENT-CLASS-350-342
US-PATENT-CLASS-382-31
US-PATENT-4,772,101

N89-14120*# c 76 ..... NAS 1.71:NPO-17399-1-CU
NASA-CASE-NPO-17399-1-CU
US-PATENT-APPL-SN-248019

N89-14224* c 02 ..... NASA-CASE-LAR-13215-1
US-PATENT-APPL-SN-904132
US-PATENT-CLASS-244-35-R
US-PATENT-CLASS-416-223-R
US-PATENT-4,776,531

N89-14303* c 26 ..... NASA-CASE-LEW-14134-2
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US-PATENT-CLASS-420-54
US-PATENT-CLASS-420-62
US-PATENT-CLASS-420-79
US-PATENT-CLASS-420-80
US-PATENT-CLASS-420-81
US-PATENT-4,780,276

N89-14337* c 27 ..... NASA-CASE-LAR-13601-1-CU
US-PATENT-APPL-SN-028831
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-128
US-PATENT-4,788,271

N89-14351* c 31 ..... NASA-CASE-NPO-17143-1-CU
US-PATENT-APPL-SN-105847
US-PATENT-CLASS-62-467
US-PATENT-CLASS-62-514-JT
US-PATENT-4,779,428

N89-14374* c 32 ..... NASA-CASE-GSC-12892-1
US-PATENT-APPL-SN-655606
US-PATENT-CLASS-455-115
US-PATENT-CLASS-455-117
US-PATENT-CLASS-455-67
US-PATENT-CLASS-455-98
US-PATENT-4,777,656

N89-14384* c 33 ..... NASA-CASE-ARC-11536-1
US-PATENT-APPL-SN-725714
US-PATENT-CLASS-342-195
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-364-900
US-PATENT-4,779,222

N89-14385* c 33 ..... NASA-CASE-LAR-13552-1-CU
US-PATENT-APPL-SN-933941
US-PATENT-CLASS-324-77-E
US-PATENT-CLASS-324-77-R
US-PATENT-CLASS-324-78-D
US-PATENT-CLASS-324-78-F
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-364-484
US-PATENT-CLASS-377-39
US-PATENT-4,786,168

N89-14392* c 34 ..... NASA-CASE-MFS-28217-1
US-PATENT-APPL-SN-067844
US-PATENT-CLASS-122-366
US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-165-104.26
US-PATENT-4,770,238

N89-14407* c 35 ..... NASA-CASE-LAR-13300-1-CU
US-PATENT-APPL-SN-829042
US-PATENT-CLASS-310-338
US-PATENT-CLASS-367-908
US-PATENT-CLASS-73-290-V
US-PATENT-4,770,038

N89-14422* c 35 ..... NASA-CASE-NPO-17086-1-CU
US-PATENT-APPL-SN-087359
US-PATENT-CLASS-73-505
US-PATENT-4,777,823

N89-14423* c 35 ..... NASA-CASE-LAR-13853-1
US-PATENT-APPL-SN-143436
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-861.65
US-PATENT-4,783,994

N89-15379* c 35 ..... NASA-CASE-MSC-20906-2
US-PATENT-APPL-SN-021569
US-PATENT-CLASS-244-164
US-PATENT-CLASS-244-165
US-PATENT-CLASS-74-572
US-PATENT-4,776,541

N89-16042* c 27 ..... NASA-CASE-ARC-11533-2
US-PATENT-APPL-SN-852461
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-321
US-PATENT-CLASS-528-322
US-PATENT-CLASS-528-353
US-PATENT-CLASS-528-72
US-PATENT-CLASS-528-73
US-PATENT-4,775,740

N89-16256* c 52 ..... NASA-CASE-ARC-11426-2
US-PATENT-APPL-SN-827185
US-PATENT-CLASS-351-203
US-PATENT-CLASS-351-237
US-PATENT-4,778,268

N89-23466*# c 07 ..... NAS 1.71:LAR-14049-1
NASA-CASE-LAR-14049-1
US-PATENT-APPL-SN-270189

N89-23623*# c 24 ..... NAS 1.71:LEW-14734-1
NASA-CASE-LEW-14734-1
US-PATENT-APPL-SN-279624

N89-25242* c 09 ..... NASA-CASE-MFS-25962-1
US-PATENT-APPL-SN-633180
US-PATENT-CLASS-239-14.1
US-PATENT-CLASS-239-2.1
US-PATENT-4,781,326

N89-25266* c 18 ..... NASA-CASE-ARC-11505-2
US-PATENT-APPL-SN-159072
US-PATENT-CLASS-244-159
US-PATENT-CLASS-244-161
US-PATENT-CLASS-285-302
US-PATENT-4,807,834

N89-25279* c 20 ..... NASA-CASE-MSC-20476-2
US-PATENT-APPL-SN-046341
US-PATENT-CLASS-239-265.17
US-PATENT-CLASS-60-202
US-PATENT-CLASS-60-264
US-PATENT-4,815,279

N89-25363* c 32 ..... NASA-CASE-LAR-13798-1
US-PATENT-APPL-SN-118995
US-PATENT-CLASS-343-DIG.2
US-PATENT-CLASS-343-880
US-PATENT-CLASS-343-915
US-PATENT-4,811,033

N89-25689* c 74 ..... NASA-CASE-MFS-29348-1
US-PATENT-APPL-SN-156518
US-PATENT-CLASS-350-96.21
US-PATENT-CLASS-350-96.25
US-PATENT-4,798,433

N89-26202* c 35 ..... NASA-CASE-MFS-28242-1
US-PATENT-APPL-SN-149822
US-PATENT-CLASS-356-347
US-PATENT-CLASS-356-361
US-PATENT-4,810,094

N89-26400* c 60 ..... NASA-CASE-NPO-16461-1CU
US-PATENT-APPL-SN-815103
US-PATENT-CLASS-364-131
US-PATENT-CLASS-382-41
US-PATENT-CLASS-382-42
US-PATENT-CLASS-382-49
US-PATENT-4,790,026

N89-28553* c 18 ..... NASA-CASE-MSC-21211-1
US-PATENT-APPL-SN-105841
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US-PATENT-CLASS-244-161
US-PATENT-CLASS-285-226
US-PATENT-CLASS-403-51
US-PATENT-4,809,936

N89-28554* c 18 ..... NASA-CASE-MSC-21117-2
US-PATENT-APPL-SN-184233
US-PATENT-APPL-SN-929875
US-PATENT-CLASS-248-DIG-1
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US-PATENT-CLASS-403-4
US-PATENT-CLASS-52-573
US-PATENT-CLASS-52-648
US-PATENT-4,805,368

N89-28556*# c 18 ..... NAS 1.71:MFS-28327-1
NASA-CASE-MFS-28327-1
US-PATENT-APPL-SN-361200

N89-28603*# c 25 ..... NAS 1.71:MFS-26049-1-NP
NASA-CASE-MFS-26049-1-NP
US-PATENT-APPL-SN-376487

N89-28621* c 26 ..... NASA-CASE-LAR-13924-1-CU
US-PATENT-APPL-SN-172102
US-PATENT-CLASS-148-159
US-PATENT-CLASS-148-416
US-PATENT-CLASS-148-417
US-PATENT-CLASS-420-529
US-PATENT-CLASS-420-533
US-PATENT-4,820,488

N89-28672* c 32 ..... NASA-CASE-LAR-13747-1-CU
US-PATENT-APPL-SN-197191
US-PATENT-CLASS-342-1
US-PATENT-CLASS-342-165
US-PATENT-CLASS-342-5
US-PATENT-4,809,003

N89-28676* c 32 ..... NASA-CASE-NPO-17249-1-CU
US-PATENT-APPL-SN-125666
US-PATENT-CLASS-358-88
US-PATENT-CLASS-358-91
US-PATENT-CLASS-358-92
US-PATENT-4,819,064

N89-28713* c 33 ..... NASA-CASE-NPO-17108-1-CU
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US-PATENT-CLASS-364-724.01
US-PATENT-CLASS-364-724.05
US-PATENT-CLASS-364-735
US-PATENT-CLASS-364-754
US-PATENT-4,823,299

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N90-10261* # c 27 ..... NAS 1.71:NPO-17524-1-CU
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US-PATENT-CLASS-431-352
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US-PATENT-CLASS-60-732
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US-PATENT-CLASS-49-253
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US-PATENT-CLASS-55-205

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US-PATENT-CLASS-374-162
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US-PATENT-CLASS-156-DIG.72
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US-PATENT-CLASS-156-608
US-PATENT-CLASS-422-245
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INT-PATENT-CLASS-B64C-9/08
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US-PATENT-CLASS-244-46
US-PATENT-CLASS-244-75R

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US-PATENT-CLASS-148-902
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US-PATENT-4,902,354
N90-23475* c 23 .... INT-PATENT-CLASS-C07S-9/40
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INT-PATENT-CLASS-G01R-33/12
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N91-13658* # c 34 ..... NAS 1.71:NPO-17479-1-CU
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US-PATENT-APPL-SN-568127
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US-PATENT-CLASS-73-147
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US-PATENT-CLASS-364-550
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US-PATENT-CLASS-244-161
US-PATENT-CLASS-405-188
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US-PATENT-APPL-SN-311551
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US-PATENT-CLASS-528-322
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US-PATENT-CLASS-164-338.1
US-PATENT-4,964,453
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US-PATENT-APPL-SN-798713
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US-PATENT-CLASS-48-203
US-PATENT-CLASS-48-77
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US-PATENT-4,965,429
N91-14523* c 32 .. INT-PATENT-CLASS-H04L-27/18
NASA-CASE-NPO-16904-2-CU
US-PATENT-APPL-SN-246032
US-PATENT-APPL-SN-929876
US-PATENT-CLASS-371-43
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-57
US-PATENT-4,945,549
N91-14536* c 33 . INT-PATENT-CLASS-H07M-10/39
INT-PATENT-CLASS-H07M-4/60
NASA-CASE-NPO-17604-1-CU
US-PATENT-APPL-SN-404288
US-PATENT-CLASS-252-62.2
US-PATENT-CLASS-429-104
US-PATENT-CLASS-429-213
US-PATENT-4,966,823
N91-14537* c 33 .. INT-PATENT-CLASS-H01L-43/00
NASA-CASE-MSC-21428-1
US-PATENT-APPL-SN-343652
US-PATENT-CLASS-320-51
US-PATENT-CLASS-338-221
US-PATENT-CLASS-338-32
US-PATENT-4,973,936
N91-14538* c 33 ... INT-PATENT-CLASS-H01M-6/20
NASA-CASE-NPO-17640-1-CU
US-PATENT-APPL-SN-405169
US-PATENT-CLASS-429-103
US-PATENT-CLASS-429-120
US-PATENT-4,945,012
N91-14539* c 33 .. INT-PATENT-CLASS-H01F-27/30
NASA-CASE-NPO-17830-1-CU
US-PATENT-APPL-SN-443297
US-PATENT-CLASS-336-198
US-PATENT-CLASS-336-205
US-PATENT-CLASS-336-229
US-PATENT-4,975,672
N91-14550* c 33 ... INT-PATENT-CLASS-H03D-1/00
NASA-CASE-GSC-13237-1
US-PATENT-APPL-SN-418612
US-PATENT-CLASS-328-151
US-PATENT-CLASS-329-363
US-PATENT-4,973,914
N91-14551* c 33 .. INT-PATENT-CLASS-H01L-27/14
NASA-CASE-NPO-17258-1-CU
US-PATENT-APPL-SN-283673
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-32
US-PATENT-CLASS-357-58
US-PATENT-4,954,864
N91-14552* c 33 ... INT-PATENT-CLASS-G01R-1/04
NASA-CASE-LEW-14746-1
US-PATENT-APPL-SN-392239
US-PATENT-CLASS-324-158F
US-PATENT-CLASS-324-158P
US-PATENT-CLASS-324-601
US-PATENT-CLASS-333-247
US-PATENT-4,980,636
N91-14562* c 34 .. INT-PATENT-CLASS-B64B-21/00
NASA-CASE-LAR-13532-1
US-PATENT-APPL-SN-838649
US-PATENT-CLASS-114-67A
US-PATENT-CLASS-244-130
US-PATENT-CLASS-244-203
US-PATENT-CLASS-244-204
US-PATENT-4,932,610
N91-14563* c 34 .. INT-PATENT-CLASS-F16K-3/316
INT-PATENT-CLASS-F16K-3/32
INT-PATENT-CLASS-F16K-37/00
NASA-CASE-MFS-28383-1
US-PATENT-APPL-SN-404290
US-PATENT-CLASS-137-556
US-PATENT-CLASS-251-212
US-PATENT-4,957,139
N91-14587* c 35 ..... NASA-CASE-NPO-16989-1-CU
US-PATENT-APPL-SN-358027
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-286
US-PATENT-CLASS-250-287
US-PATENT-CLASS-250-288
US-PATENT-CLASS-250-305

US-PATENT-CLASS-250-423
US-PATENT-4,973,840
N91-14588* c 35 ..... NASA-CASE-NPO-17526-1-CU
US-PATENT-APPL-SN-369403
US-PATENT-CLASS-250-338.1
US-PATENT-CLASS-250-338.2
US-PATENT-CLASS-250-370.12
US-PATENT-CLASS-250-370.13
US-PATENT-CLASS-250-493.1
US-PATENT-CLASS-357-27
US-PATENT-CLASS-357-30
US-PATENT-4,952,811
N91-14590* c 35 . INT-PATENT-CLASS-G02B-27/64
INT-PATENT-CLASS-G02B-7/18
NASA-CASE-LAR-14207-1
US-PATENT-APPL-SN-168065
US-PATENT-APPL-SN-366205
US-PATENT-CLASS-350-287
US-PATENT-CLASS-350-500
US-PATENT-4,895,430
N91-14591* c 35 . INT-PATENT-CLASS-F41G-11/00
INT-PATENT-CLASS-G02B-23/00
NASA-CASE-ARC-11886-1-SB
US-PATENT-APPL-SN-418374
US-PATENT-CLASS-33-261
US-PATENT-CLASS-350-576
US-PATENT-4,957,357
N91-14607* c 37 . INT-PATENT-CLASS-G08B-21/00
NASA-CASE-MSC-21408-1
US-PATENT-APPL-SN-304154
US-PATENT-CLASS-340-683
US-PATENT-CLASS-73-658
US-PATENT-4,977,395
N91-14608* c 37 .. INT-PATENT-CLASS-F01D-11/08
NASA-CASE-MFS-28345-1
US-PATENT-APPL-SN-364743
US-PATENT-CLASS-415-170.1
US-PATENT-CLASS-415-174.5
US-PATENT-CLASS-415-229
US-PATENT-4,927,326
N91-14609* c 37 .... INT-PATENT-CLASS-F16K-1/22
NASA-CASE-SSC-00004-1
US-PATENT-APPL-SN-404292
US-PATENT-CLASS-251-160
US-PATENT-CLASS-251-163
US-PATENT-4,921,212
N91-14610* c 37 ... INT-PATENT-CLASS-B25G-3/00
INT-PATENT-CLASS-F16B-1/00
NASA-CASE-MSC-21539-1
US-PATENT-APPL-SN-503410
US-PATENT-CLASS-285-327
US-PATENT-CLASS-403-317
US-PATENT-CLASS-403-327
US-PATENT-CLASS-403-331
US-PATENT-CLASS-403-381
US-PATENT-4,971,474
N91-14613* c 37 .. INT-PATENT-CLASS-F16L-35/00
NASA-CASE-MFS-26042-1-SB
US-PATENT-APPL-SN-161682
US-PATENT-CLASS-285-361
US-PATENT-CLASS-285-82
US-PATENT-4,932,688
N91-14614* c 37 ... INT-PATENT-CLASS-B25G-3/18
NASA-CASE-LAR-14465-1
US-PATENT-APPL-SN-223122
US-PATENT-APPL-SN-388264
US-PATENT-APPL-SN-501910
US-PATENT-CLASS-403-171
US-PATENT-CLASS-403-322
US-PATENT-CLASS-403-327
US-PATENT-CLASS-403-331
US-PATENT-4,963,052
N91-14615* c 37 .. INT-PATENT-CLASS-B25J-15/08
NASA-CASE-LAR-13855-1
US-PATENT-APPL-SN-250662
US-PATENT-CLASS-294-119.1
US-PATENT-CLASS-901-38
US-PATENT-CLASS-901-39
US-PATENT-4,955,653
N91-14616* c 37 ..... NASA-CASE-NPO-15959-2
US-PATENT-APPL-SN-364774
US-PATENT-APPL-SN-680605
US-PATENT-CLASS-294-106
US-PATENT-CLASS-294-111
US-PATENT-CLASS-414-7
US-PATENT-CLASS-414-729
US-PATENT-CLASS-74-479
US-PATENT-CLASS-74-665G
US-PATENT-4,921,293
N91-14617* c 37 . INT-PATENT-CLASS-F16M-13/00
NASA-CASE-LEW-14862-1
US-PATENT-APPL-SN-414816
US-PATENT-CLASS-248-229
US-PATENT-CLASS-248-230
US-PATENT-CLASS-403-385
US-PATENT-CLASS-403-391
US-PATENT-4,946,122
N91-14642* c 43 . INT-PATENT-CLASS-G01S-13/90
NASA-CASE-NPO-17831-1-CU
US-PATENT-APPL-SN-470665
US-PATENT-CLASS-342-25
US-PATENT-4,975,704
N91-14662* c 45 ..... NASA-CASE-NST-00007-1
US-PATENT-APPL-SN-357938
US-PATENT-CLASS-210-615
US-PATENT-CLASS-55-228
US-PATENT-CLASS-55-242
US-PATENT-CLASS-55-68
US-PATENT-CLASS-55-74
US-PATENT-CLASS-55-84
US-PATENT-CLASS-55-89
US-PATENT-4,959,084
N91-14703* c 51 . INT-PATENT-CLASS-B01D-29/04
INT-PATENT-CLASS-B01D-29/42
NASA-CASE-MSC-20929-1
US-PATENT-APPL-SN-087358
US-PATENT-CLASS-210-355
US-PATENT-CLASS-210-414
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-316
US-PATENT-4,839,046
N91-14709* c 52 ..... NASA-CASE-MSC-20078-3
US-PATENT-APPL-SN-183475
US-PATENT-APPL-SN-394343
US-PATENT-APPL-SN-585627
US-PATENT-CLASS-128-671
US-PATENT-CLASS-128-689
US-PATENT-CLASS-128-706
US-PATENT-CLASS-128-716
US-PATENT-CLASS-331-1
US-PATENT-4,936,309
N91-14723* c 54 .... INT-PATENT-CLASS-E03D-9/04
NASA-CASE-MSC-21025-4
US-PATENT-APPL-SN-035401
US-PATENT-APPL-SN-392228
US-PATENT-CLASS-4-209R
US-PATENT-CLASS-4-316
US-PATENT-CLASS-4-482
US-PATENT-4,937,891
N91-14724* c 54 .. INT-PATENT-CLASS-A47K-11/00
NASA-CASE-MSC-21025-2
US-PATENT-APPL-SN-035401
US-PATENT-APPL-SN-391911
US-PATENT-CLASS-4-DIG.9
US-PATENT-CLASS-4-316
US-PATENT-CLASS-4-482
US-PATENT-CLASS-4-661
US-PATENT-4,942,632
N91-14741* c 61 . INT-PATENT-CLASS-G06F-15/18
NASA-CASE-MSC-21465-1
US-PATENT-APPL-SN-219295
US-PATENT-CLASS-364-513
US-PATENT-CLASS-364-578
US-PATENT-4,965,743
N91-14769* c 62 . INT-PATENT-CLASS-G06F-15/16
INT-PATENT-CLASS-G06F-9/46
NASA-CASE-MSC-21348-1
US-PATENT-APPL-SN-283106
US-PATENT-CLASS-364-228.3
US-PATENT-CLASS-364-231.9
US-PATENT-CLASS-364-280
US-PATENT-CLASS-364-281
US-PATENT-CLASS-364-300
US-PATENT-4,920,487
N91-14772* c 62 .... INT-PATENT-CLASS-H04J-3/02
NASA-CASE-NPO-17185-1-CU
US-PATENT-APPL-SN-085833
US-PATENT-CLASS-340-825.5
US-PATENT-CLASS-370-85.4
US-PATENT-CLASS-370-85.6
US-PATENT-CLASS-370-85.9
US-PATENT-CLASS-370-94.3
US-PATENT-4,933,936
N91-14807* c 71 . INT-PATENT-CLASS-G01K-15/00
NASA-CASE-NPO-17511-1-CU
US-PATENT-APPL-SN-271265
US-PATENT-CLASS-73-505
US-PATENT-4,964,303
N91-14808* c 71 .. INT-PATENT-CLASS-H01L-41/08
NASA-CASE-NPO-17620-1-CU
US-PATENT-APPL-SN-326756
US-PATENT-CLASS-181-0.5
US-PATENT-CLASS-310-323
US-PATENT-CLASS-310-325
US-PATENT-CLASS-310-334
US-PATENT-4,962,330
N91-14813* c 72 ..... NASA-CASE-NPO-17498-1-CU
US-PATENT-APPL-SN-260762
US-PATENT-CLASS-437-225
US-PATENT-CLASS-437-228
US-PATENT-CLASS-437-235
US-PATENT-CLASS-437-238
US-PATENT-CLASS-437-239
US-PATENT-CLASS-437-930
US-PATENT-CLASS-437-936
US-PATENT-4,902,647
N91-14835* c 74 . INT-PATENT-CLASS-G01N-23/20
INT-PATENT-CLASS-H05B-33/00
NASA-CASE-MFS-28232-1
US-PATENT-APPL-SN-304155
US-PATENT-CLASS-250-327.2
US-PATENT-CLASS-250-484.1
US-PATENT-4,933,558
N91-14872* c 76 .. INT-PATENT-CLASS-H01L-41/08
NASA-CASE-MFS-28298-1
US-PATENT-APPL-SN-343656
US-PATENT-CLASS-310-330
US-PATENT-CLASS-310-331
US-PATENT-CLASS-310-339
US-PATENT-CLASS-310-340
US-PATENT-4,952,836
N91-15142* c 03 . INT-PATENT-CLASS-B64D-25/08
NASA-CASE-MSC-21332-1
US-PATENT-APPL-SN-242253
US-PATENT-CLASS-102-262
US-PATENT-CLASS-244-122AD
US-PATENT-CLASS-244-137.2
US-PATENT-CLASS-244-162
US-PATENT-CLASS-42-1.13
US-PATENT-CLASS-89-1.34
US-PATENT-4,860,971
N91-15320* c 24 .... INT-PATENT-CLASS-H01B-1/06
NASA-CASE-LEW-14472-1
US-PATENT-APPL-SN-251499
US-PATENT-CLASS-252-510
US-PATENT-CLASS-423-439
US-PATENT-CLASS-423-448
US-PATENT-CLASS-423-460
US-PATENT-CLASS-423-489
US-PATENT-4,957,661
N91-15333* # c 24 ..... NAS 1.71:MFS-28390-1
NASA-CASE-MFS-28390-1
US-PATENT-APPL-SN-578043
N91-15334* # c 24 ..... NAS 1.71:LAR-14459-1
NASA-CASE-LAR-14459-1
US-PATENT-APPL-SN-613046
N91-15402* c 27 . INT-PATENT-CLASS-C08G-73/10
NASA-CASE-LEW-14203-1
US-PATENT-APPL-SN-231026
US-PATENT-CLASS-524-600
US-PATENT-CLASS-525-436
US-PATENT-CLASS-528-353
US-PATENT-4,946,890
N91-15403* c 27 . INT-PATENT-CLASS-C08G-69/26
NASA-CASE-LAR-14101-1
US-PATENT-APPL-SN-266045
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-173
US-PATENT-CLASS-528-176
US-PATENT-CLASS-528-353
US-PATENT-4,937,317
N91-15412* # c 27 ..... NAS 1.71:LEW-15020-1
NASA-CASE-LEW-15020-1
US-PATENT-APPL-SN-601957
N91-15423* c 31 ..... INT-PATENT-CLASS-F23J-1/00
NASA-CASE-NPO-16985-1-CU
US-PATENT-APPL-SN-195222
US-PATENT-CLASS-110-165R
US-PATENT-CLASS-110-171
US-PATENT-CLASS-110-259
US-PATENT-CLASS-414-217
US-PATENT-CLASS-414-220
US-PATENT-4,860,669
N91-15424* c 31 ..... INT-PATENT-CLASS-F8-15/00
NASA-CASE-LEW-14295-1
US-PATENT-APPL-SN-244377
US-PATENT-CLASS-165-104.31
US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-904
US-PATENT-CLASS-239-597
US-PATENT-CLASS-239-601
US-PATENT-CLASS-244-163
US-PATENT-4,913,225
N91-15511* c 35 . INT-PATENT-CLASS-G01F-17/00
NASA-CASE-MSC-21059-2
US-PATENT-APPL-SN-217725
US-PATENT-APPL-SN-396726
US-PATENT-CLASS-73-149
US-PATENT-4,956,996
N91-15512* c 35 . INT-PATENT-CLASS-G01B-11/26
INT-PATENT-CLASS-G01C-1/00
INT-PATENT-CLASS-G01C-3/08
NASA-CASE-NPO-17436-1-CU
US-PATENT-APPL-SN-237035
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152

US-PATENT-CLASS-356-5
US-PATENT-4,964,722
N91-15520* # c 35 ..... NAS 1.71:ARC-11917-1
NASA-CASE-ARC-11917-1
US-PATENT-APPL-SN-596105
N91-15528* c 36 .... INT-PATENT-CLASS-H01S-3/16
NASA-CASE-NPO-17282-1-CU
US-PATENT-APPL-SN-235150
US-PATENT-CLASS-372-41
US-PATENT-CLASS-372-71
US-PATENT-CLASS-372-75
US-PATENT-4,974,230
N91-15544* c 37 .. INT-PATENT-CLASS-F16C-11/00
NASA-CASE-LAR-13898-1
US-PATENT-APPL-SN-225427
US-PATENT-CLASS-403-146
US-PATENT-CLASS-403-147
US-PATENT-CLASS-403-156
US-PATENT-CLASS-403-334
US-PATENT-4,932,807
N91-15661* # c 47 ..... NAS 1.71:MFS-26102-1-CU
NASA-CASE-MFS-26102-1-CU
US-PATENT-APPL-SN-571687
N91-15898* c 76 ..... NASA-CASE-NPO-16306-1-CU
US-PATENT-APPL-SN-718798
US-PATENT-CLASS-118-405
US-PATENT-CLASS-118-407
US-PATENT-CLASS-118-419
US-PATENT-CLASS-118-428
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617.1
US-PATENT-CLASS-156-620.1
US-PATENT-4,861,416
N91-16815* # c 76 ..... NAS 1.71:MFS-26061-1
NASA-CASE-MFS-26061-1
US-PATENT-APPL-SN-575708
N91-17141* c 23 . INT-PATENT-CLASS-C07C-15/16
NASA-CASE-LEW-14345-3
US-PATENT-APPL-SN-159071
US-PATENT-APPL-SN-292049
US-PATENT-APPL-SN-924474
US-PATENT-CLASS-552-101
US-PATENT-4,912,238
N91-17145* c 24 ..... NASA-CASE-LEW-14990-1-CU
US-PATENT-APPL-SN-326757
US-PATENT-APPL-SN-433863
US-PATENT-CLASS-419-24
US-PATENT-CLASS-419-36
US-PATENT-CLASS-419-37
US-PATENT-CLASS-419-48
US-PATENT-CLASS-419-49
US-PATENT-CLASS-419-8
US-PATENT-4,980,126
N91-17250* # c 29 ..... NAS 1.71:MFS-28422-1
NASA-CASE-MFS-28422-1
US-PATENT-APPL-SN-629740
N91-17350* c 35 .... INT-PATENT-CLASS-G01L-3/00
NASA-CASE-NPO-17461-1-CU
US-PATENT-APPL-SN-326820
US-PATENT-CLASS-73-862.33
US-PATENT-CLASS-73-862.36
US-PATENT-4,932,270
N91-17360* # c 36 . INT-PATENT-CLASS-H01S-3/098
NASA-CASE-NPO-17355-1-CU
US-PATENT-APPL-SN-283431
US-PATENT-CLASS-372-19
US-PATENT-CLASS-372-39
US-PATENT-CLASS-372-66
US-PATENT-CLASS-372-70
US-PATENT-4,860,295
N91-17387* c 37 .... INT-PATENT-CLASS-F16D-3/02
NASA-CASE-GSC-13153-1
US-PATENT-APPL-SN-326863
US-PATENT-CLASS-403-113
US-PATENT-CLASS-403-291
US-PATENT-CLASS-403-57
US-PATENT-CLASS-464-132
US-PATENT-CLASS-464-56
US-PATENT-4,932,806
N91-17388* c 37 .... INT-PATENT-CLASS-F16D-3/50
NASA-CASE-GSC-13127-1
US-PATENT-APPL-SN-193612
US-PATENT-CLASS-464-56
US-PATENT-CLASS-901-28
US-PATENT-4,946,421
N91-21157* c 09 . INT-PATENT-CLASS-G01N-31/12
NASA-CASE-MSC-21470-1
US-PATENT-APPL-SN-381239
US-PATENT-CLASS-374-8
US-PATENT-CLASS-422-104
US-PATENT-CLASS-422-78
US-PATENT-CLASS-422-80
US-PATENT-CLASS-73-865.6
US-PATENT-4,990,312
N91-21175* c 14 ... INT-PATENT-CLASS-G01M-3/28
NASA-CASE-MFS-28376-1
US-PATENT-APPL-SN-361479
US-PATENT-CLASS-73-49.8
US-PATENT-5,000,033
N91-21176* c 14 . INT-PATENT-CLASS-G01M-19/00
INT-PATENT-CLASS-G01M-7/02
NASA-CASE-LAR-14149-1-SB
US-PATENT-APPL-SN-357757
US-PATENT-CLASS-73-663
US-PATENT-CLASS-73-865.6
US-PATENT-CLASS-73-866.4
US-PATENT-4,995,272
N91-21221* c 18 ... INT-PATENT-CLASS-B25G-3/00
NASA-CASE-MSC-21504-1
US-PATENT-APPL-SN-516856
US-PATENT-CLASS-403-171
US-PATENT-CLASS-403-176
US-PATENT-CLASS-403-252
US-PATENT-CLASS-52-646
US-PATENT-4,998,842
N91-21222* c 18 ... INT-PATENT-CLASS-B24G-1/00
NASA-CASE-MSC-21534-1
US-PATENT-APPL-SN-480985
US-PATENT-CLASS-244-14
US-PATENT-CLASS-244-158R
US-PATENT-4,991,788
N91-21270* c 25 .... INT-PATENT-CLASS-H01S-3/22
NASA-CASE-LAR-14155-2-SB
US-PATENT-APPL-SN-298150
US-PATENT-APPL-SN-443406
US-PATENT-CLASS-372-59
US-PATENT-CLASS-423-247
US-PATENT-CLASS-502-324
US-PATENT-CLASS-502-34
US-PATENT-4,991,181
N91-21434* c 33 .. INT-PATENT-CLASS-H01L-27/14
NASA-CASE-NPO-17426-1-CU
US-PATENT-APPL-SN-363815
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-67S
US-PATENT-CLASS-357-71S
US-PATENT-4,990,988
N91-21473* c 34 .. INT-PATENT-CLASS-F28D-15/02
NASA-CASE-KSC-11395-1-CU
US-PATENT-APPL-SN-473065
US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-165-86
US-PATENT-CLASS-165-96
US-PATENT-CLASS-62-333
US-PATENT-CLASS-62-384
US-PATENT-CLASS-62-90
US-PATENT-4,971,139
N91-21493* c 35 . INT-PATENT-CLASS-G01F-17/00
NASA-CASE-MSC-21500-1
US-PATENT-APPL-SN-458258
US-PATENT-CLASS-73-149
US-PATENT-5,001,924
N91-21494* c 35 .. INT-PATENT-CLASS-F01B-19/00
NASA-CASE-MSC-20797-2
US-PATENT-APPL-SN-041389
US-PATENT-APPL-SN-771537
US-PATENT-CLASS-92-103F
US-PATENT-CLASS-92-103SD
US-PATENT-4,989,497
N91-21495* c 35 . INT-PATENT-CLASS-G01F-17/00
NASA-CASE-MSC-21059-3
US-PATENT-APPL-SN-396726
US-PATENT-APPL-SN-486455
US-PATENT-CLASS-73-149
US-PATENT-4,984,457
N91-21496* c 35 .... INT-PATENT-CLASS-B01F-3/02
NASA-CASE-MFS-28177-1
US-PATENT-APPL-SN-283092
US-PATENT-CLASS-165-20
US-PATENT-CLASS-236-44A
US-PATENT-CLASS-236-94
US-PATENT-CLASS-417-190
US-PATENT-4,909,436
N91-21539* c 37 . INT-PATENT-CLASS-H02K-41/00
NASA-CASE-LAR-13981-1
US-PATENT-APPL-SN-405154
US-PATENT-CLASS-310-90.5
US-PATENT-CLASS-318-135
US-PATENT-5,003,235
N91-21540* c 37 ... INT-PATENT-CLASS-G01N-3/20
NASA-CASE-LEW-14776-1
US-PATENT-APPL-SN-458274
US-PATENT-CLASS-73-852
US-PATENT-4,986,132
N91-21541* c 37 . INT-PATENT-CLASS-F16M-13/00
NASA-CASE-LAR-13580-1
US-PATENT-APPL-SN-441673
US-PATENT-CLASS-248-593
US-PATENT-CLASS-248-604
US-PATENT-4,997,158
N91-21542* c 37 ..... NASA-CASE-MSC-21476-1
US-PATENT-APPL-SN-392235
US-PATENT-CLASS-318-568.16
US-PATENT-CLASS-318-568.20
US-PATENT-CLASS-318-568.21
US-PATENT-CLASS-364-513
US-PATENT-CLASS-901-33
US-PATENT-CLASS-901-37
US-PATENT-CLASS-901-47
US-PATENT-4,980,626
N91-21543* c 37 . INT-PATENT-CLASS-F16M-13/00
NASA-CASE-MSC-21502-1
US-PATENT-APPL-SN-470663
US-PATENT-CLASS-DIG.4
US-PATENT-CLASS-248-181
US-PATENT-CLASS-248-650
US-PATENT-CLASS-248-677
US-PATENT-CLASS-254-101
US-PATENT-CLASS-403-131
US-PATENT-5,000,416
N91-21544* c 37 ..... NASA-CASE-NPO-17801-1-CU
US-PATENT-APPL-SN-459029
US-PATENT-CLASS-318-561
US-PATENT-CLASS-318-628
US-PATENT-CLASS-318-646
US-PATENT-CLASS-318-648
US-PATENT-CLASS-364-478
US-PATENT-CLASS-364-513
US-PATENT-CLASS-901-9
US-PATENT-4,999,553
N91-21545* c 37 .. INT-PATENT-CLASS-B25B-11/00
INT-PATENT-CLASS-G02B-21/26
INT-PATENT-CLASS-G02B-21/32
NASA-CASE-MFS-28420-1
US-PATENT-APPL-SN-523675
US-PATENT-CLASS-269-21
US-PATENT-CLASS-350-529
US-PATENT-4,981,345
N91-21621* c 43 . INT-PATENT-CLASS-G01S-13/86
INT-PATENT-CLASS-G01S-13/89
NASA-CASE-NPO-17937-1-CU
US-PATENT-APPL-SN-493190
US-PATENT-CLASS-342-26
US-PATENT-CLASS-342-357
US-PATENT-CLASS-342-52
US-PATENT-4,990,922
N91-21700* c 51 ..... NASA-CASE-MSC-21293-1
US-PATENT-APPL-SN-213559
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US-PATENT-CLASS-435-285
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-292
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-312
US-PATENT-CLASS-435-316
US-PATENT-4,988,623
N91-21701* c 51 . INT-PATENT-CLASS-C12M-03/06
NASA-CASE-MSC-21361-1
US-PATENT-APPL-SN-278137
US-PATENT-CLASS-210-396
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-289
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-315
US-PATENT-CLASS-435-316
US-PATENT-5,002,890
N91-21824* c 70 .... INT-PATENT-CLASS-H02K-7/09
NASA-CASE-LAR-13785-1
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US-PATENT-CLASS-310-90.5
US-PATENT-5,003,211
N91-21871* c 74 ... INT-PATENT-CLASS-G01B-9/02
INT-PATENT-CLASS-G02B-6/02
INT-PATENT-CLASS-G02B-6/16
NASA-CASE-LEW-14795-1
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US-PATENT-CLASS-250-227
US-PATENT-CLASS-350-96.29
US-PATENT-CLASS-356-345
US-PATENT-4,995,697
N91-21911* c 76 . INT-PATENT-CLASS-H05B-33/14
NASA-CASE-LAR-14181-1
US-PATENT-APPL-SN-140185
US-PATENT-APPL-SN-338379
US-PATENT-CLASS-313-502
US-PATENT-CLASS-313-503
US-PATENT-CLASS-313-506
US-PATENT-CLASS-428-690
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N91-23180* # c 07 ..... NAS 1.71:LEW-15094-1
NASA-CASE-LEW-15094-1
US-PATENT-APPL-SN-647902
N91-23271* # c 25 ..... NAS 1.71:MSC-21577-1-SB
NASA-CASE-MSC-21577-1-SB
US-PATENT-APPL-SN-748933
N91-23410* # c 34 ..... NAS 1.71:LAR-13563-1
NASA-CASE-LAR-13563-1

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N91-23492* # c 37 ..... NAS 1.71:MSC-21555-1
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US-PATENT-APPL-SN-656925
N91-23976* # c 82 ..... NAS 1.71:SSC-00010-1
NASA-CASE-SSC-00010-1
US-PATENT-APPL-SN-591643
N91-25155* # c 09 ..... NAS 1.71:MFS-28493-1
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US-PATENT-APPL-SN-678780
N91-25167* # c 18 ..... NAS 1.71:MFS-28524-1
NASA-CASE-MFS-28524-1
US-PATENT-APPL-SN-691610
N91-25185* c 23 . INT-PATENT-CLASS-C07C-15/16
NASA-CASE-LEW-14345-4
US-PATENT-APPL-SN-292049
US-PATENT-APPL-SN-419554
US-PATENT-CLASS-552-101
US-PATENT-CLASS-552-108
US-PATENT-CLASS-552-110
US-PATENT-CLASS-552-113
US-PATENT-CLASS-552-115
US-PATENT-5,011,955
N91-25199* c 24 ..... NASA-CASE-LAR-13562-2
US-PATENT-APPL-SN-486668
US-PATENT-APPL-SN-921572
US-PATENT-CLASS-156-172
US-PATENT-CLASS-156-187
US-PATENT-CLASS-156-625
US-PATENT-CLASS-156-634
US-PATENT-CLASS-264-257
US-PATENT-CLASS-264-261
US-PATENT-5,008,061
N91-25200* c 24 ..... NASA-CASE-LAR-14107-1
US-PATENT-APPL-SN-105846
US-PATENT-APPL-SN-262268
US-PATENT-CLASS-264-136
US-PATENT-CLASS-264-257
US-PATENT-CLASS-264-331.12
US-PATENT-CLASS-525-432
US-PATENT-CLASS-528-350
US-PATENT-CLASS-528-352
US-PATENT-5,004,575
N91-25296* c 27 .... INT-PATENT-CLASS-B23H-9/00
NASA-CASE-LEW-14679-1
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US-PATENT-CLASS-219-69.11
US-PATENT-5,012,062
N91-25298* # c 27 ..... NAS 1.71:LEW-15164-1
NASA-CASE-LEW-15164-1
US-PATENT-APPL-SN-699130
N91-25305* c 31 .. INT-PATENT-CLASS-F16L-55/04
NASA-CASE-MSC-21703-1
US-PATENT-APPL-SN-603052
US-PATENT-CLASS-138-26
US-PATENT-CLASS-138-30
US-PATENT-5,027,860
N91-25306* # c 31 ..... NAS 1.71:MFS-28545-1
NASA-CASE-MFS-28545-1
US-PATENT-APPL-SN-674636
N91-25316* c 32 .... INT-PATENT-CLASS-H04B-1/10
NASA-CASE-NPO-16987-1-CU
US-PATENT-APPL-SN-203374
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-56
US-PATENT-CLASS-375-85
US-PATENT-CLASS-375-97
US-PATENT-5,007,068
N91-25317* c 32 . INT-PATENT-CLASS-G06F-15/20
NASA-CASE-MSC-21334-1
US-PATENT-APPL-SN-292130
US-PATENT-CLASS-364-578
US-PATENT-5,005,147
N91-25318* c 32 .. INT-PATENT-CLASS-H04L-27/18
NASA-CASE-NPO-17853-1-CU
US-PATENT-APPL-SN-443539
US-PATENT-CLASS-329-304
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-86
US-PATENT-5,025,455
N91-25380* c 34 ... INT-PATENT-CLASS-B64G-1/28
NASA-CASE-NPO-17204-1-CU
US-PATENT-APPL-SN-473242
US-PATENT-CLASS-114-122
US-PATENT-CLASS-114-125
US-PATENT-CLASS-244-164
US-PATENT-CLASS-244-165
US-PATENT-5,026,008
N91-25388* # c 35 ..... NAS 1.71:MFS-28563-1
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N91-25392* # c 36 ..... NAS 1.71:LAR-14556-1
NASA-CASE-LAR-14556-1
US-PATENT-APPL-SN-699289
N91-25570* # c 51 ..... NAS 1.71:MSC-21763-1
NASA-CASE-MSC-21763-1
US-PATENT-APPL-SN-671603
N91-25693* # c 62 . INT-PATENT-CLASS-G06F-12/00
NASA-CASE-NPO-17197-1-CU
US-PATENT-APPL-SN-292124
US-PATENT-CLASS-364-200
US-PATENT-CLASS-364-281
US-PATENT-CLASS-364-281.3
US-PATENT-CLASS-364-281.6
US-PATENT-CLASS-364-281.8
US-PATENT-5,031,089
N91-25840* c 74 ..... NASA-CASE-MSC-21509-1
US-PATENT-APPL-SN-560924
US-PATENT-CLASS-350-162.13
US-PATENT-CLASS-350-3.68
US-PATENT-CLASS-382-31
US-PATENT-CLASS-382-32
US-PATENT-CLASS-382-43
US-PATENT-CLASS-382-49
US-PATENT-CLASS-382-6
US-PATENT-5,029,220
N91-25841* c 74 .. INT-PATENT-CLASS-H01L-27/02
INT-PATENT-CLASS-H01L-29/161
NASA-CASE-NPO-18101-1-CU
US-PATENT-APPL-SN-596133
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-17
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-34
US-PATENT-CLASS-357-46
US-PATENT-5,027,182
N91-25875* c 75 .... INT-PATENT-CLASS-B23K-9/00
NASA-CASE-LEW-14901-1
US-PATENT-APPL-SN-376488
US-PATENT-CLASS-219-121.47
US-PATENT-CLASS-219-121.48
US-PATENT-CLASS-219-121.52
US-PATENT-CLASS-219-75
US-PATENT-CLASS-219-76.16
US-PATENT-CLASS-427-34
US-PATENT-4,990,739
N91-26200* # c 20 ..... NAS 1.71:14846-2
NASA-CASE-LEW-14846-2
US-PATENT-APPL-SN-709907
N91-26438* c 33 ... INT-PATENT-CLASS-H03D-1/04
NASA-CASE-GSC-13179-1
US-PATENT-APPL-SN-414815
US-PATENT-CLASS-307-353
US-PATENT-CLASS-329-349
US-PATENT-CLASS-329-361
US-PATENT-5,015,963
N91-26459* # c 33 ..... NAS 1.71:MFS-28458-1
NASA-CASE-MFS-28458-1
US-PATENT-APPL-SN-710192
N91-26542* # c 37 ..... NAS 1.71:MFS-28521-1
NASA-CASE-MFS-28521-1
US-PATENT-APPL-SN-657586
N91-26747* c 54 ..... NASA-CASE-MSC-21025-3
US-PATENT-APPL-SN-035401
US-PATENT-APPL-SN-392174
US-PATENT-CLASS-83-203
US-PATENT-CLASS-83-206
US-PATENT-CLASS-83-277
US-PATENT-CLASS-83-282
US-PATENT-CLASS-83-614
US-PATENT-CLASS-83-649
US-PATENT-5,005,457
N91-26918* c 74 ..... NASA-CASE-NPO-17512-1-CU
US-PATENT-APPL-SN-310992
US-PATENT-CLASS-350-353
US-PATENT-CLASS-350-354
US-PATENT-CLASS-350-358
US-PATENT-CLASS-364-713
US-PATENT-CLASS-364-822
US-PATENT-CLASS-364-837
US-PATENT-CLASS-364-841
US-PATENT-5,005,954
N91-26966* # c 76 ..... NAS 1.71:LEW-15222-1
NASA-CASE-LEW-15222-1
US-PATENT-APPL-SN-718315
N91-26967* # c 76 ..... NAS 1.71:LEW-15223-1
NASA-CASE-LEW-15223-1
US-PATENT-APPL-SN-718314
N91-27139* c 02 . INT-PATENT-CLASS-B64C-17/00
NASA-CASE-LAR-14322-1
US-PATENT-APPL-SN-603335
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US-PATENT-CLASS-244-139
US-PATENT-CLASS-244-75R
US-PATENT-5,020,739
N91-27156* c 05 .... INT-PATENT-CLASS-B64C-7/00
INT-PATENT-CLASS-B64D-1/02
NASA-CASE-LAR-13875-1
US-PATENT-APPL-SN-250468
US-PATENT-CLASS-244-118.1
US-PATENT-CLASS-244-130
US-PATENT-CLASS-244-137.4
US-PATENT-5,018,688
N91-27175* c 14 .... INT-PATENT-CLASS-F27B-5/14
INT-PATENT-CLASS-F27D-11/10
INT-PATENT-CLASS-G01N-3/08
NASA-CASE-LEW-14848-1
US-PATENT-APPL-SN-382885
US-PATENT-CLASS-219-390
US-PATENT-CLASS-374-49
US-PATENT-CLASS-374-50
US-PATENT-CLASS-73-826
US-PATENT-5,015,825
N91-27199* c 18 . INT-PATENT-CLASS-E04H-12/18
NASA-CASE-LAR-13490-1
US-PATENT-APPL-SN-899683
US-PATENT-CLASS-403-72
US-PATENT-CLASS-52-646
US-PATENT-5,016,418
N91-27200* c 18 . INT-PATENT-CLASS-G02B-5/122
NASA-CASE-MFS-28419-1
US-PATENT-APPL-SN-431538
US-PATENT-CLASS-350-102
US-PATENT-CLASS-350-107
US-PATENT-CLASS-350-97
US-PATENT-5,020,876
N91-27201* c 18 ... INT-PATENT-CLASS-B64G-1/42
NASA-CASE-GSC-13197-1
US-PATENT-APPL-SN-344872
US-PATENT-CLASS-244-159
US-PATENT-5,020,743
N91-27220* c 23 . INT-PATENT-CLASS-C08G-14/00
INT-PATENT-CLASS-C08G-8/02
NASA-CASE-LAR-13992-1-CU
US-PATENT-APPL-SN-248009
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-219
US-PATENT-CLASS-528-220
US-PATENT-4,902,769
N91-27244* c 24 ..... NASA-CASE-LEW-14902-1
US-PATENT-APPL-SN-571058
US-PATENT-CLASS-419-14
US-PATENT-CLASS-419-30
US-PATENT-CLASS-419-32
US-PATENT-CLASS-419-36
US-PATENT-CLASS-419-38
US-PATENT-CLASS-419-39
US-PATENT-CLASS-419-49
US-PATENT-5,034,187
N91-27372* c 27 ..... NASA-CASE-NPO-17633-1-CU
US-PATENT-APPL-SN-418611
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-225
US-PATENT-CLASS-528-227
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-230
US-PATENT-CLASS-528-233
US-PATENT-5,011,907
N91-27385* c 31 .... INT-PATENT-CLASS-F28F-7/00
NASA-CASE-NPO-17806-1-CU
US-PATENT-APPL-SN-560908
US-PATENT-CLASS-136-204
US-PATENT-CLASS-165-1
US-PATENT-CLASS-165-185
US-PATENT-5,031,689
N91-27439* c 32 .. INT-PATENT-CLASS-H04L-27/22
NASA-CASE-NPO-17896-1-CU
US-PATENT-APPL-SN-560691
US-PATENT-CLASS-329-304
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-56
US-PATENT-CLASS-375-85
US-PATENT-CLASS-375-86
US-PATENT-5,017,883
N91-27478* c 33 ... INT-PATENT-CLASS-H01M-4/04
INT-PATENT-CLASS-H01M-4/58
NASA-CASE-NPO-17809-1-CU
US-PATENT-APPL-SN-503409
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-429-223
US-PATENT-5,019,470
N91-27479* c 33 .... INT-PATENT-CLASS-G05F-1/12
NASA-CASE-GSC-13280-1
US-PATENT-APPL-SN-418373
US-PATENT-CLASS-323-311
US-PATENT-CLASS-323-312
US-PATENT-5,021,729
N91-27504* c 34 .... INT-PATENT-CLASS-F16K-3/32
INT-PATENT-CLASS-F16K-31/06
NASA-CASE-MSC-21549-1
US-PATENT-APPL-SN-507553
US-PATENT-CLASS-251-129.15
US-PATENT-CLASS-251-148
US-PATENT-CLASS-251-205
US-PATENT-CLASS-251-326

US-PATENT-CLASS-251-363
US-PATENT-5,020,774
N91-27522* c 35 . INT-PATENT-CLASS-H04R-25/00
NASA-CASE-GSC-13027-1-CU
US-PATENT-APPL-SN-363807
US-PATENT-CLASS-381-26
US-PATENT-CLASS-381-68.1
US-PATENT-CLASS-381-92
US-PATENT-5,029,216
N91-27560* c 37 . INT-PATENT-CLASS-B64D-33/04
INT-PATENT-CLASS-F16J-15/46
NASA-CASE-LEW-14672-1
US-PATENT-APPL-SN-441672
US-PATENT-CLASS-239-265.11
US-PATENT-CLASS-277-157
US-PATENT-CLASS-277-226
US-PATENT-CLASS-277-229
US-PATENT-CLASS-277-34
US-PATENT-5,014,917
N91-27561* c 37 .... INT-PATENT-CLASS-B60P-7/15
INT-PATENT-CLASS-E05C-5/04
NASA-CASE-LEW-14887-1
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US-PATENT-CLASS-292-60
US-PATENT-CLASS-292-61
US-PATENT-CLASS-410-80
US-PATENT-CLASS-410-84
US-PATENT-5,032,045
N91-27562* c 37 ..... NASA-CASE-LAR-14489-1
US-PATENT-APPL-SN-543926
US-PATENT-CLASS-264-184
US-PATENT-CLASS-264-211.15
US-PATENT-CLASS-264-211.16
US-PATENT-CLASS-264-211.17
US-PATENT-CLASS-264-234
US-PATENT-CLASS-264-236
US-PATENT-CLASS-264-345
US-PATENT-5,023,034
N91-27614* c 44 .. INT-PATENT-CLASS-H01L-31/18
INT-PATENT-CLASS-H01L-31/42
NASA-CASE-LEW-14959-1
US-PATENT-APPL-SN-495969
US-PATENT-CLASS-136-244
US-PATENT-CLASS-136-249
US-PATENT-CLASS-136-256
US-PATENT-CLASS-357-30
US-PATENT-CLASS-437-2
US-PATENT-5,019,176
N91-27913* c 71 ..... NASA-CASE-LAR-13968-1
US-PATENT-APPL-SN-392165
US-PATENT-CLASS-181-206
US-PATENT-CLASS-181-286
US-PATENT-CLASS-181-290
US-PATENT-CLASS-181-295
US-PATENT-CLASS-381-71
US-PATENT-CLASS-381-94
US-PATENT-CLASS-52-144
US-PATENT-5,024,288
N91-27914* c 71 .... INT-PATENT-CLASS-A61B-8/00
NASA-CASE-LAR-13966-1
US-PATENT-APPL-SN-422726
US-PATENT-CLASS-128-660.06
US-PATENT-CLASS-73-631
US-PATENT-5,031,627
N91-27936* c 72 .. INT-PATENT-CLASS-H01J-37/00
NASA-CASE-LAR-14250-1-SB
US-PATENT-APPL-SN-531372
US-PATENT-CLASS-250-306
US-PATENT-CLASS-250-307
US-PATENT-CLASS-250-358.1
US-PATENT-5,015,851
N91-27957* c 74 . INT-PATENT-CLASS-H04B-10/00
NASA-CASE-NPO-17703-1-CU
US-PATENT-APPL-SN-359801
US-PATENT-CLASS-356-5
US-PATENT-CLASS-455-605
US-PATENT-5,031,234
N91-28014* c 76 INT-PATENT-CLASS-H01L-21/324
NASA-CASE-NPO-17678-1-CU
US-PATENT-APPL-SN-357758
US-PATENT-CLASS-357-82
US-PATENT-CLASS-437-187
US-PATENT-CLASS-437-197
US-PATENT-CLASS-437-199
US-PATENT-CLASS-437-247
US-PATENT-CLASS-437-248
US-PATENT-5,019,533
N91-28175*# c 09 ..... NAS 1.71:LAR-13548-1
NASA-CASE-LAR-13548-1
US-PATENT-APPL-SN-721039
N91-28184*# c 14 ..... NAS 1.71:LAR-14272-1-CU
NASA-CASE-LAR-14272-1-CU
US-PATENT-APPL-SN-678553
N91-28186*# c 16 ..... NAS 1.71:MSC-21793-1
NASA-CASE-MSC-21793-1
US-PATENT-APPL-SN-731829
N91-28289*# c 24 ..... NAS 1.71:LEW-15077-2
NASA-CASE-LEW-15077-2
US-PATENT-APPL-SN-735548
N91-28423*# c 27 ..... NAS 1.71:LEW-14474-1
NASA-CASE-LEW-14474-1
US-PATENT-APPL-SN-720133
N91-28424*# c 27 ..... NAS 1.71:LAR-13645-1
NASA-CASE-LAR-13645-1
US-PATENT-APPL-SN-721038
N91-28425*# c 27 ..... NAS 1.71:LAR-14206-1
NASA-CASE-LAR-14206-1
US-PATENT-APPL-SN-429574
N91-28444*# c 28 ..... NAS 1.71:LAR-13832-1
NASA-CASE-LAR-13832-1
US-PATENT-APPL-SN-682151
N91-28455*# c 31 ..... NAS 1.71:LAR-14483-1
NASA-CASE-LAR-14483-1
US-PATENT-APPL-SN-682153
N91-28490*# c 33 ..... NAS 1.71:LAR-14395-1-CU
NASA-CASE-LAR-14395-1-CU
US-PATENT-APPL-SN-666536
N91-28557*# c 36 ..... NAS 1.71:GSC-13343-1
NASA-CASE-GSC-13343-1
US-PATENT-APPL-SN-702529
N91-28730*# c 53 ..... NAS 1.71:MSC-21625-1
NASA-CASE-MSC-21625-1
US-PATENT-APPL-SN-716182
N91-30667* c 51 ... INT-PATENT-CLASS-C12M-3/02
NASA-CASE-MSC-21294-1
US-PATENT-APPL-SN-213558
US-PATENT-CLASS-261-83
US-PATENT-CLASS-435-285
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-312
US-PATENT-CLASS-435-313
US-PATENT-CLASS-435-818
US-PATENT-5,026,650
N91-31113* c 03 .... INT-PATENT-CLASS-B63C-9/01
INT-PATENT-CLASS-B64C-1/22
INT-PATENT-CLASS-B64D-1/08
INT-PATENT-CLASS-B64D-9/00
NASA-CASE-ARC-11909-1
US-PATENT-APPL-SN-418320
US-PATENT-CLASS-244-137.2
US-PATENT-CLASS-441-83
US-PATENT-5,020,742
N91-31120* c 04 . INT-PATENT-CLASS-G06F-15/50
NASA-CASE-LAR-13854-1-CU
US-PATENT-APPL-SN-082766
US-PATENT-APPL-SN-192562
US-PATENT-CLASS-364-427
US-PATENT-CLASS-364-428
US-PATENT-CLASS-73-178T
US-PATENT-5,047,9421-CU
N91-31140* c 05 . INT-PATENT-CLASS-B64C-19/00
NASA-CASE-LAR-14212-1-CU
US-PATENT-APPL-SN-565090
US-PATENT-CLASS-244-120
US-PATENT-CLASS-244-199
US-PATENT-CLASS-244-75R
US-PATENT-CLASS-244-87
US-PATENT-CLASS-244-88
US-PATENT-5,050,819
N91-31236* c 24 .... INT-PATENT-CLASS-B32B-7/08
NASA-CASE-NPO-11907-1-NP
US-PATENT-APPL-SN-410576
US-PATENT-CLASS-112-440
US-PATENT-CLASS-428-285
US-PATENT-5,038,693
N91-31258* c 25 INT-PATENT-CLASS-H01L-21/306
NASA-CASE-ARC-11873-2
US-PATENT-APPL-SN-150169
US-PATENT-APPL-SN-347591
US-PATENT-CLASS-156-345
US-PATENT-CLASS-156-643
US-PATENT-CLASS-156-668
US-PATENT-CLASS-204-192.32
US-PATENT-CLASS-437-229
US-PATENT-5,007,983
N91-31307* c 27 INT-PATENT-CLASS-C08F-283/00
INT-PATENT-CLASS-C08F-283/04
INT-PATENT-CLASS-C08G-16/00
INT-PATENT-CLASS-C08G-73/10
NASA-CASE-LAR-13910-2-CU
US-PATENT-APPL-SN-218792
US-PATENT-APPL-SN-347558
US-PATENT-CLASS-525-422
US-PATENT-CLASS-525-471
US-PATENT-5,021,518
N91-31476* c 31 .. INT-PATENT-CLASS-B23K-20/08
NASA-CASE-LAR-14096-1
US-PATENT-APPL-SN-591644
US-PATENT-CLASS-228-107
US-PATENT-CLASS-228-2.5
US-PATENT-5,050,789
N91-31528* c 33 . INT-PATENT-CLASS-G05B-19/42
NASA-CASE-NPO-17134-1-CU
US-PATENT-APPL-SN-172105
US-PATENT-CLASS-318-568.1
US-PATENT-CLASS-318-568.2
US-PATENT-CLASS-318-573
US-PATENT-CLASS-364-513
US-PATENT-CLASS-901-19
US-PATENT-5,047,700
N91-31529* c 33 ..... NASA-CASE-LEW-14676-1
US-PATENT-APPL-SN-305675
US-PATENT-CLASS-421-209
US-PATENT-CLASS-421-457
US-PATENT-CLASS-505-1
US-PATENT-CLASS-505-701
US-PATENT-CLASS-505-702
US-PATENT-CLASS-505-703
US-PATENT-CLASS-505-704
US-PATENT-5,049,539
N91-31530* c 33 .... INT-PATENT-CLASS-H04K-3/00
NASA-CASE-GSC-12821-2
US-PATENT-APPL-SN-242254
US-PATENT-APPL-SN-921576
US-PATENT-CLASS-455-1
US-PATENT-CLASS-455-102
US-PATENT-CLASS-455-99
US-PATENT-5,014,340
N91-31596* c 34 .... INT-PATENT-CLASS-G01F-1/00
NASA-CASE-LAR-13952-2-SB
US-PATENT-APPL-SN-203178
US-PATENT-APPL-SN-348223
US-PATENT-CLASS-73-432.1
US-PATENT-4,936,146
N91-31608* c 35 . INT-PATENT-CLASS-G01K-17/06
INT-PATENT-CLASS-G01K-17/16
NASA-CASE-LEW-14967-1
US-PATENT-APPL-SN-531433
US-PATENT-CLASS-136-200
US-PATENT-CLASS-250-356.1
US-PATENT-CLASS-374-180
US-PATENT-CLASS-374-208
US-PATENT-CLASS-374-29
US-PATENT-5,048,973
N91-31655* c 37 . INT-PATENT-CLASS-B23D-21/06
INT-PATENT-CLASS-B26B-27/00
INT-PATENT-CLASS-B26D-3/16
NASA-CASE-MSC-21469-1
US-PATENT-APPL-SN-486458
US-PATENT-CLASS-30-388
US-PATENT-CLASS-30-92
US-PATENT-5,038,473
N91-31656* c 37 . INT-PATENT-CLASS-B23Q-3/155
NASA-CASE-GSC-13239-1
US-PATENT-APPL-SN-608657
US-PATENT-CLASS-29-568
US-PATENT-CLASS-294-86.4
US-PATENT-CLASS-901-30
US-PATENT-5,044,063
N91-31755* c 51 ..... NASA-CASE-MSC-21585-1
US-PATENT-APPL-SN-493529
US-PATENT-CLASS-422-101
US-PATENT-CLASS-422-99
US-PATENT-CLASS-435-30
US-PATENT-CLASS-73-863.22
US-PATENT-CLASS-73-863.41
US-PATENT-CLASS-73-863.85
US-PATENT-CLASS-73-863.86
US-PATENT-5,049,492
N91-31803*# c 54 ... INT-PATENT-CLASS-B64G-1/46
NASA-CASE-MSC-21629-1
US-PATENT-APPL-SN-378548
US-PATENT-CLASS-210-748
US-PATENT-CLASS-244-159
US-PATENT-CLASS-244-163
US-PATENT-CLASS-47-1.4
US-PATENT-CLASS-47-62
US-PATENT-CLASS-55-75
US-PATENT-5,005,787
N91-31810* c 60 . INT-PATENT-CLASS-G11C-29/00
INT-PATENT-CLASS-H03M-13/00
NASA-CASE-NPO-17394-1-CU
US-PATENT-APPL-SN-311024
US-PATENT-CLASS-365-156
US-PATENT-CLASS-365-200
US-PATENT-CLASS-371-40.1
US-PATENT-5,048,023
N91-31885* c 63 . INT-PATENT-CLASS-G05B-19/24
INT-PATENT-CLASS-G06F-15/46
NASA-CASE-NPO-17401-1-CU
US-PATENT-APPL-SN-172105
US-PATENT-APPL-SN-264326
US-PATENT-CLASS-318-568.11
US-PATENT-CLASS-318-573
US-PATENT-CLASS-364-513
US-PATENT-5,038,089
N91-31950* c 74 . INT-PATENT-CLASS-H05B-33/14
NASA-CASE-LAR-13616-1

US-PATENT-APPL-SN-140185
US-PATENT-CLASS-313-502
US-PATENT-CLASS-313-503
US-PATENT-CLASS-313-506
US-PATENT-CLASS-313-509
US-PATENT-5,047,686
N91-32149* # c 09 ..... NAS 1.71:LAR-14424-1-SB
NASA-CASE-LAR-14424-1-SB
US-PATENT-APPL-SN-743468
N91-32167* # c 20 ..... NAS 1.71:LEW-15200-1
NASA-CASE-LEW-15200-1
US-PATENT-APPL-SN-722446
N91-32196* c 25 . INT-PATENT-CLASS-G01N-25/50
NASA-CASE-LAR-14454-1
US-PATENT-APPL-SN-426345
US-PATENT-APPL-SN-593412
US-PATENT-CLASS-102-200
US-PATENT-CLASS-374-8
US-PATENT-CLASS-73-167
US-PATENT-5,052,817
N91-32230* # c 27 ..... NAS 1.71:LEW-15043-1
NASA-CASE-LEW-15043-1
US-PATENT-APPL-SN-772181
N91-32240* c 31 ..... NASA-CASE-NPO-16635-1-CU
US-PATENT-APPL-SN-858054
US-PATENT-CLASS-264-12
US-PATENT-CLASS-264-5
US-PATENT-CLASS-65-21.4
US-PATENT-CLASS-75-331
US-PATENT-CLASS-75-338
US-PATENT-CLASS-75-340
US-PATENT-CLASS-75-342
US-PATENT-5,055,240
N91-32498* c 37 .... INT-PATENT-CLASS-B64D-1/12
NASA-CASE-MSC-21671-1
US-PATENT-APPL-SN-603337
US-PATENT-CLASS-102-378
US-PATENT-CLASS-294-82.26
US-PATENT-CLASS-89-1.14
US-PATENT-CLASS-89-1.57
US-PATENT-5,046,395
N91-32508* c 37 .. INT-PATENT-CLASS-B23K-26/00
NASA-CASE-MSC-21299-2
US-PATENT-APPL-SN-176587
US-PATENT-APPL-SN-358029
US-PATENT-CLASS-219-121.72
US-PATENT-CLASS-219-69.12
US-PATENT-CLASS-29-558
US-PATENT-5,051,559
N91-32509* # c 37 ..... NAS 1.71:NPO-18116-1-CU
NASA-CASE-NPO-18116-1-CU
US-PATENT-APPL-SN-699299
N91-32510* # c 37 ..... NAS 1.71:NPO-18134-1-CU
NASA-CASE-NPO-18134-1-CU
US-PATENT-APPL-SN-744118
N91-32514* c 37 . INT-PATENT-CLASS-B61D-15/08
NASA-CASE-MSC-21540-1
US-PATENT-APPL-SN-527508
US-PATENT-CLASS-105-124
US-PATENT-CLASS-105-141
US-PATENT-CLASS-105-142
US-PATENT-CLASS-105-87
US-PATENT-CLASS-188-24.11
US-PATENT-5,058,506
N91-32515* # c 38 ..... NAS 1.71:SSC-00013-1
NASA-CASE-SSC-00013-1
US-PATENT-APPL-SN-740675
N91-32546* c 43 . INT-PATENT-CLASS-G01S-13/89
NASA-CASE-GSC-13212-1
US-PATENT-APPL-SN-391896
US-PATENT-CLASS-342-191
US-PATENT-CLASS-342-25
US-PATENT-CLASS-342-26
US-PATENT-5,053,778
N91-32795* c 54 .... INT-PATENT-CLASS-A61F-2/58
INT-PATENT-CLASS-A61F-2/68
NASA-CASE-MFS-28426-1
US-PATENT-APPL-SN-508154
US-PATENT-CLASS-623-62
US-PATENT-CLASS-623-63
US-PATENT-5,021,065
N91-32805* # c 60 ..... NAS 1.71:NPO-17632-1-CU
NASA-CASE-NPO-17632-1-CU
US-PATENT-APPL-SN-712796
N91-32852* c 62 ... INT-PATENT-CLASS-G06G-7/12
NASA-CASE-NPO-17664-1-CU
US-PATENT-APPL-SN-463720
US-PATENT-CLASS-364-513
US-PATENT-CLASS-364-807
US-PATENT-5,056,037
N91-32922* c 74 . INT-PATENT-CLASS-G01B-11/00
NASA-CASE-MSC-21416-1
US-PATENT-APPL-SN-545177
US-PATENT-CLASS-356-375
US-PATENT-CLASS-356-399
US-PATENT-5,052,807
N91-32924* # c 74 ..... NAS 1.71:NPO-18194-1-CU
NASA-CASE-NPO-18194-1-CU
US-PATENT-APPL-SN-700379
N91-32925* # c 74 ..... NAS 1.71:NPO-18278-1-CU
NASA-CASE-NPO-18278-1-CU
US-PATENT-APPL-SN-747059
N91-32947* # c 75 ..... NAS 1.71:MSC-21631-1
NASA-CASE-MSC-21631-1
US-PATENT-APPL-SN-729107
N92-10008* # c 02 ..... NAS 1.71:LAR-14520-1-SB
NASA-CASE-LAR-14520-1-SB
US-PATENT-APPL-SN-743238
N92-10035* # c 16 ..... NAS 1.71:LAR-13586-1
NASA-CASE-LAR-13586-1
US-PATENT-APPL-SN-743469
N92-10054* c 20 .... INT-PATENT-CLASS-F02R-9/52
NASA-CASE-LEW-14846-1
US-PATENT-APPL-SN-443523
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-39.281
US-PATENT-5,054,287
N92-10066* # c 23 ..... NAS 1.71:LAR-14440-1
NASA-CASE-LAR-14440-1
US-PATENT-APPL-SN-650336
N92-10070* c 24 .... INT-PATENT-CLASS-B05D-1/24
NASA-CASE-LAR-14231-1
US-PATENT-APPL-SN-524109
US-PATENT-CLASS-118-DIG.5
US-PATENT-CLASS-156-166
US-PATENT-CLASS-156-283
US-PATENT-CLASS-427-185
US-PATENT-CLASS-427-195
US-PATENT-CLASS-427-375
US-PATENT-5,057,338
N92-10073* c 25 .. INT-PATENT-CLASS-B01J-29/10
NASA-CASE-NPO-17480-1-CU
US-PATENT-APPL-SN-508386
US-PATENT-CLASS-502-73
US-PATENT-5,057,473
N92-10090* c 27 . INT-PATENT-CLASS-C01B-31/04
NASA-CASE-LEW-14698-2
US-PATENT-APPL-SN-219016
US-PATENT-APPL-SN-443289
US-PATENT-CLASS-252-502
US-PATENT-CLASS-423-439
US-PATENT-CLASS-423-448
US-PATENT-CLASS-423-460
US-PATENT-5,059,409
N92-10091* c 27 ..... NASA-CASE-MSC-21503-1
US-PATENT-APPL-SN-443414
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-411
US-PATENT-CLASS-2-424
US-PATENT-CLASS-428-215
US-PATENT-CLASS-428-412
US-PATENT-CLASS-428-419
US-PATENT-CLASS-428-458
US-PATENT-5,056,156
N92-10105* # c 27 ..... NAS 1.71:LAR-14773-1
NASA-CASE-LAR-14773-1-CU
US-PATENT-APPL-SN-755207
N92-10126* # c 32 ..... NAS 1.71:NPO-17836-1-CU
NASA-CASE-NPO-17836-1-CU
US-PATENT-APPL-SN-716150
N92-10128* c 32 ... INT-PATENT-CLASS-H04N-7/13
NASA-CASE-LEW-14945-2
US-PATENT-APPL-SN-540976
US-PATENT-APPL-SN-611214
US-PATENT-CLASS-358-133
US-PATENT-CLASS-358-135
US-PATENT-5,057,917
N92-10146* # c 33 ..... NAS 1.71:NPO-17734-1-CU
NASA-CASE-NPO-17734-1-CU
US-PATENT-APPL-SN-700830
N92-10182* # c 35 ..... NAS 1.71:LAR-13823-1
NASA-CASE-LAR-13823-1
US-PATENT-APPL-SN-749737
N92-10185* c 35 .... INT-PATENT-CLASS-G01L-5/16
INT-PATENT-CLASS-G01M-9/00
NASA-CASE-LAR-14419-1
US-PATENT-APPL-SN-584018
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-862.04
US-PATENT-CLASS-73-862.65
US-PATENT-5,056,361
N92-10186* c 35 .. INT-PATENT-CLASS-B43L-13/24
NASA-CASE-GSC-13240-1
US-PATENT-APPL-SN-571344
US-PATENT-CLASS-33-19.2
US-PATENT-CLASS-33-23.02
US-PATENT-5,058,281
N92-10197* c 37 .. INT-PATENT-CLASS-F16L-15/00
NASA-CASE-MSC-21434-1
US-PATENT-APPL-SN-433881
US-PATENT-CLASS-285-23
US-PATENT-CLASS-285-353
US-PATENT-CLASS-285-39
US-PATENT-CLASS-285-912
US-PATENT-5,058,929
N92-10222* # c 44 ..... NAS 1.71:LEW-14973-1
NASA-CASE-LEW-14973-1
US-PATENT-APPL-SN-766593
N92-10331* # c 61 ..... NAS 1.71:MSC-21613-1
NASA-CASE-MSC-21613-1
US-PATENT-APPL-SN-761566
N92-10681* c 76 .... INT-PATENT-CLASS-B05D-5/12
INT-PATENT-CLASS-C23F-1/00
NASA-CASE-NPO-17949-1-CU
US-PATENT-APPL-SN-545016
US-PATENT-CLASS-156-637
US-PATENT-CLASS-427-343
US-PATENT-CLASS-427-62
US-PATENT-CLASS-505-1
US-PATENT-CLASS-505-728
US-PATENT-5,059,581
N92-11186* # c 27 ..... NAS 1.71:LEW-14474-2
NASA-CASE-LEW-14474-2
US-PATENT-APPL-SN-760670
N92-11198* # c 27 ..... NAS 1.71:LAR-14457-1-CU
NASA-CASE-LAR-14457-1-CU
US-PATENT-APPL-SN-520472
N92-11200* # c 27 ..... NAS 1.71:LAR-14487-1
NASA-CASE-LAR-14487-1
US-PATENT-APPL-SN-750158
N92-11201* # c 27 ..... NAS 1.71:LAR-14538-1
NASA-CASE-LAR-14538-1
US-PATENT-APPL-SN-736880
N92-11219* # c 31 ..... NAS 1.71:LAR-14046-1
NASA-CASE-LAR-14046-1
US-PATENT-APPL-SN-766597
N92-11220* # c 31 ..... NAS 1.71:LAR-14048-1
NASA-CASE-LAR-14048-1
US-PATENT-APPL-SN-766609
N92-11286* # c 34 ..... NAS 1.71:ARC-11921-1
NASA-CASE-ARC-11921-1
US-PATENT-APPL-SN-703649
N92-11336* # c 35 ..... NAS 1.71:LAR-13944-1
NASA-CASE-LAR-13944-1
US-PATENT-APPL-SN-747152
N92-11354* # c 37 ..... NAS 1.71:LAR-14542-1
NASA-CASE-LAR-14542-1
US-PATENT-APPL-SN-743489
N92-11374* # c 39 ..... NAS 1.71:LAR-14480-1-CU
NASA-CASE-LAR-14480-1-CU
US-PATENT-APPL-SN-705474
N92-11384* # c 39 ..... NAS 1.71:LAR-14741-1
NASA-CASE-LAR-14741-1
US-PATENT-APPL-SN-720153
N92-11621* c 52 .... INT-PATENT-CLASS-A61B-8/00
NASA-CASE-LAR-13901-2
US-PATENT-APPL-SN-118993
US-PATENT-APPL-SN-358213
US-PATENT-APPL-SN-929869
US-PATENT-CLASS-128-661.03
US-PATENT-5,058,591
N92-11627* # c 52 ..... NAS 1.71:MSC-21775-1
NASA-CASE-MSC-21775-1
US-PATENT-APPL-SN-760633
N92-11628* # c 52 ..... NAS 1.71:MSC-21858-1
NASA-CASE-MSC-21858-1
US-PATENT-APPL-SN-765615
N92-11791* # c 74 ..... NAS 1.71:NPO-18007-1-CU
NASA-CASE-NPO-18007-1-CU
US-PATENT-APPL-SN-703238
N92-12079* # c 25 ..... NAS 1.71:MSC-21759-1
NASA-CASE-MSC-21759-1
US-PATENT-APPL-SN-746581
N92-12121* # c 27 ..... NAS 1.71:LAR-14763-1
NASA-CASE-LAR-14763-1
US-PATENT-APPL-SN-736667
N92-12438* # c 60 ..... NAS 1.71:NPO-17998-1-CU
NASA-CASE-NPO-17998-1-CU
US-PATENT-APPL-SN-653578
N92-15081* c 14 .... INT-PATENT-CLASS-F41B-6/00
NASA-CASE-MFS-28323-1
US-PATENT-APPL-SN-429515
US-PATENT-CLASS-124-3
US-PATENT-CLASS-244-63
US-PATENT-CLASS-505-1
US-PATENT-CLASS-89-8
US-PATENT-5,017,549
N92-15114* c 18 .... INT-PATENT-CLASS-F41H-5/04
NASA-CASE-MSC-21420-1
US-PATENT-APPL-SN-516573
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-89-36.02
US-PATENT-CLASS-89-36.11
US-PATENT-5,067,388
N92-15122* c 20 .... INT-PATENT-CLASS-F02K-9/58
NASA-CASE-MSC-21542-1
US-PATENT-APPL-SN-470480

US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-243
US-PATENT-CLASS-60-259
US-PATENT-5,063,734

N92-15203* c 31 .. INT-PATENT-CLASS-F17C-11/00
NASA-CASE-NPO-17569-1-CU
US-PATENT-APPL-SN-545236
US-PATENT-CLASS-62-461
US-PATENT-CLASS-624-3.2
US-PATENT-CLASS-624-467
US-PATENT-CLASS-624-500
US-PATENT-CLASS-624-51.2
US-PATENT-5,063,747

N92-15331* c 33 . INT-PATENT-CLASS-H04R-15/00
NASA-CASE-GSC-13369-1
US-PATENT-APPL-SN-645972
US-PATENT-CLASS-310-26
US-PATENT-CLASS-310-265
US-PATENT-CLASS-310-83
US-PATENT-CLASS-367-156
US-PATENT-5,079,460

N92-15620* # c 62 . INT-PATENT-CLASS-G06F-15/20
INT-PATENT-CLASS-G06G-7/48
NASA-CASE-NPO-17716-1-CU
US-PATENT-APPL-SN-357759
US-PATENT-CLASS-364-402
US-PATENT-5,072,379

N92-16007* c 16 ... INT-PATENT-CLASS-B64G-1/14
NASA-CASE-MSC-21562-1
US-PATENT-APPL-SN-658911
US-PATENT-CLASS-244-121
US-PATENT-CLASS-244-129.4
US-PATENT-CLASS-244-158R
US-PATENT-5,071,091

N92-16025* c 24 ..... NASA-CASE-LEW-15077-1
US-PATENT-APPL-SN-608493
US-PATENT-CLASS-118-416
US-PATENT-CLASS-252-502
US-PATENT-CLASS-423-447.2
US-PATENT-CLASS-423-448
US-PATENT-CLASS-423-460
US-PATENT-CLASS-427-294
US-PATENT-CLASS-427-443.2
US-PATENT-5,073,412

N92-16026* c 24 .... INT-PATENT-CLASS-B32B-5/14
NASA-CASE-ARC-11888-1
US-PATENT-APPL-SN-298149
US-PATENT-CLASS-428-307.7
US-PATENT-CLASS-428-325
US-PATENT-CLASS-428-446
US-PATENT-CLASS-428-920
US-PATENT-CLASS-501-39
US-PATENT-CLASS-501-54
US-PATENT-5,079,082

N92-16043* c 25 ..... NASA-CASE-LAR-14481-1
US-PATENT-APPL-SN-035430
US-PATENT-APPL-SN-516489
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-173
US-PATENT-CLASS-528-179
US-PATENT-5,061,783

N92-16121* c 27 .... INT-PATENT-CLASS-H01B-1/00
NASA-CASE-NPO-17826-1-CU
US-PATENT-APPL-SN-479485
US-PATENT-CLASS-252-500
US-PATENT-CLASS-252-518
US-PATENT-CLASS-526-258
US-PATENT-CLASS-528-22
US-PATENT-5,066,748

N92-16122* c 27 . INT-PATENT-CLASS-C04B-35/10
NASA-CASE-LEW-14984-1
US-PATENT-APPL-SN-610883
US-PATENT-CLASS-264-63
US-PATENT-CLASS-423-630
US-PATENT-CLASS-501-123
US-PATENT-CLASS-501-127
US-PATENT-5,066,625

N92-16123* c 27 ..... NASA-CASE-MFS-28372-1
US-PATENT-APPL-SN-618854
US-PATENT-CLASS-521-109.1
US-PATENT-CLASS-521-135
US-PATENT-CLASS-521-136
US-PATENT-CLASS-521-178
US-PATENT-CLASS-521-54
US-PATENT-CLASS-521-84.1
US-PATENT-CLASS-521-907
US-PATENT-5,064,868

N92-16161* c 31 ... INT-PATENT-CLASS-B25G-3/18
NASA-CASE-MSC-21517-1
US-PATENT-APPL-SN-654704
US-PATENT-CLASS-292-251.5
US-PATENT-CLASS-403-DIG.1
US-PATENT-CLASS-403-328
US-PATENT-CLASS-411-348
US-PATENT-5,061,112

N92-16162* c 31 INNT-PATENT-CLASS-B23K-20/08
NASA-CASE-LAR-13825-1
US-PATENT-APPL-SN-591645
US-PATENT-CLASS-228-107
US-PATENT-CLASS-228-2.5
US-PATENT-5,064,111

N92-16196* c 33 ..... NASA-CASE-NPO-17573-2-CU
US-PATENT-APPL-SN-311552
US-PATENT-APPL-SN-692801
US-PATENT-CLASS-307-272.1
US-PATENT-CLASS-307-296.2
US-PATENT-CLASS-307-296.7
US-PATENT-CLASS-307-303
US-PATENT-CLASS-307-311
US-PATENT-CLASS-357-29
US-PATENT-5,072,133

N92-16197* c 33 .. INT-PATENT-CLASS-H01L-29/48
NASA-CASE-GSC-13063-2-CU
US-PATENT-APPL-SN-055809
US-PATENT-APPL-SN-318981
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-47
US-PATENT-CLASS-357-55
US-PATENT-CLASS-357-68
US-PATENT-CLASS-357-69
US-PATENT-5,041,881

N92-16241* c 34 ... INT-PATENT-CLASS-G01N-1/00
NASA-CASE-MSC-21729-1
US-PATENT-APPL-SN-625344
US-PATENT-CLASS-73-863.23
US-PATENT-5,063,789

N92-16243* c 34 ... INT-PATENT-CLASS-H01N-1/26
INT-PATENT-CLASS-H01N-17/00
NASA-CASE-MSC-21384-1
US-PATENT-APPL-SN-279170
US-PATENT-CLASS-422-176
US-PATENT-CLASS-422-83
US-PATENT-CLASS-422-93
US-PATENT-5,077,015

N92-16290* c 36 . INT-PATENT-CLASS-G02B-27/28
NASA-CASE-LAR-13887-1
US-PATENT-APPL-SN-681288
US-PATENT-CLASS-359-498
US-PATENT-CLASS-372-105
US-PATENT-5,062,694

N92-16318* c 37 .. INT-PATENT-CLASS-F16J-15/32
NASA-CASE-LEW-15086-1
US-PATENT-APPL-SN-617752
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-239-127.3
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-53
US-PATENT-5,076,590

N92-16457* c 44 .. INT-PATENT-CLASS-H01L-37/00
NASA-CASE-NPO-18034-1-CU
US-PATENT-APPL-SN-568130
US-PATENT-CLASS-136-202
US-PATENT-CLASS-136-205
US-PATENT-CLASS-429-11
US-PATENT-CLASS-429-120
US-PATENT-5,066,337

N92-16559* c 54 .. INT-PATENT-CLASS-B66F-11/04
NASA-CASE-MSC-21721-1
US-PATENT-APPL-SN-664008
US-PATENT-CLASS-182-129
US-PATENT-CLASS-182-134
US-PATENT-CLASS-182-141
US-PATENT-CLASS-182-2
US-PATENT-CLASS-182-63
US-PATENT-5,070,964

N92-16563* c 60 . INT-PATENT-CLASS-H04N-5/262
NASA-CASE-MSC-21350-1
US-PATENT-APPL-SN-331551
US-PATENT-CLASS-358-160
US-PATENT-CLASS-358-183
US-PATENT-CLASS-358-22
US-PATENT-5,067,019

N92-16808* c 74 ... INT-PATENT-CLASS-G02B-1/01
INT-PATENT-CLASS-G02B-1/12
INT-PATENT-CLASS-G02B-5/23
NASA-CASE-NPO-17612-1-CU
US-PATENT-APPL-SN-480385
US-PATENT-CLASS-359-11
US-PATENT-CLASS-359-240
US-PATENT-CLASS-359-241
US-PATENT-5,062,693

N92-16809* c 74 INT-PATENT-CLASS-H04N-13/00
NASA-CASE-NPO-18028-1-CU
US-PATENT-APPL-SN-608452
US-PATENT-CLASS-358-88
US-PATENT-CLASS-358-91
US-PATENT-CLASS-358-92
US-PATENT-5,065,236

N92-16810* c 74 INT-PATENT-CLASS-G02B-23/00
INT-PATENT-CLASS-G02B-3/00
NASA-CASE-ARC-11892-1-SB
US-PATENT-APPL-SN-472939
US-PATENT-CLASS-359-362
US-PATENT-CLASS-359-572
US-PATENT-CLASS-359-744
US-PATENT-5,040,886

N92-16811* c 74 INT-PATENT-CLASS-G02B-27/64
INT-PATENT-CLASS-G02B-7/02
NASA-CASE-ARC-11916-1-SB
US-PATENT-APPL-SN-531373
US-PATENT-CLASS-359-557
US-PATENT-CLASS-359-813
US-PATENT-CLASS-359-819
US-PATENT-5,077,622

N92-17584* # c 37 ..... NAS 1.71:MFS-28589-1
NASA-CASE-MFS-28589-1
US-PATENT-APPL-SN-813628

N92-17676* # c 27 ..... NAS 1.71:LAR-14608-1
NASA-CASE-LAR-14608-1
US-PATENT-APPL-SN-752246

N92-17677* # c 37 ..... NAS 1.71:LAR-14169-1
NASA-CASE-LAR-14169-1
US-PATENT-APPL-SN-791728

N92-17678* # c 37 ..... NAS 1.71:LEW-15216-1
NASA-CASE-LEW-15216-1
US-PATENT-APPL-SN-826547

N92-17859* # c 38 ..... NAS 1.71:LAR-14626-1
NASA-CASE-LAR-14626-1
US-PATENT-APPL-SN-751489

N92-17860* # c 61 ..... NAS 1.71:MSC-21415-1-SB
NASA-CASE-MSC-21415-1-SB
US-PATENT-APPL-SN-749819

N92-17861* # c 24 ..... NAS 1.71:LEW-15241-1
NASA-CASE-LEW-15241-1
US-PATENT-APPL-SN-798464

N92-17863* # c 74 ..... NAS 1.71:MSC-21806-1
NASA-CASE-MSC-21806-1
US-PATENT-APPL-SN-780513

N92-17864* # c 74 ..... NAS 1.71:NPO-18593-1-CU
NASA-CASE-NPO-18593-1-CU
US-PATENT-APPL-SN-812901

N92-17865* # c 33 ..... NAS 1.71:NPO-18454-1-CU
NASA-CASE-NPO-18454-1-CU
US-PATENT-APPL-SN-781521

N92-17866* # c 54 ..... NAS 1.71:MFS-28633-1
NASA-CASE-MFS-28633-1
US-PATENT-APPL-SN-813629

N92-17870* # c 24 ..... NAS 1.71:MFS-28431-1
NASA-CASE-MFS-28431-1
US-PATENT-APPL-SN-812084

N92-17882* # c 23 ..... NAS 1.71:LEW-14345-6
NASA-CASE-LEW-14345-6
US-PATENT-APPL-SN-822240

N92-17884* # c 60 ..... NAS 1.71:NPO-17781-1-CU
NASA-CASE-NPO-17781-1-CU
US-PATENT-APPL-SN-744042

N92-17892* # c 74 ..... NAS 1.71:NPO-18146-1-CU
NASA-CASE-NPO-18146-1-CU
US-PATENT-APPL-SN-786618

N92-17895* # c 63 ..... NAS 1.71:NPO-17918-2-CU
NASA-CASE-NPO-17918-2-CU
US-PATENT-APPL-SN-786499

N92-17899* # c 36 ..... NAS 1.71:NPO-18386-1-CU
NASA-CASE-NPO-18386-1-CU
US-PATENT-APPL-SN-751440

N92-17907* # c 33 ..... NAS 1.71:NPO-17994-1-CU
NASA-CASE-NPO-17994-1-CU
US-PATENT-APPL-SN-791759

N92-17909* # c 34 ..... NAS 1.71:LAR-14547-1
NASA-CASE-LAR-14547-1
US-PATENT-APPL-SN-748224

N92-17910* # c 54 ..... NAS 1.71:MSC-21752-1
NASA-CASE-MSC-21752-1
US-PATENT-APPL-SN-775404

N92-18561* c 24 ..... NASA-CASE-NPO-17736-2-CU
US-PATENT-APPL-SN-392166
US-PATENT-APPL-SN-677373
US-PATENT-CLASS-437-200
US-PATENT-CLASS-437-40
US-PATENT-CLASS-437-907
US-PATENT-CLASS-437-935
US-PATENT-CLASS-437-942
US-PATENT-CLASS-437-973
US-PATENT-5,075,243

N92-19486* # c 25 ..... NAS 1.71:MSC-21936-1
NASA-CASE-MSC-21936-1
US-PATENT-APPL-SN-728901

N92-21499* c 76 ..... NASA-CASE-NPO-17074-2-CU
US-PATENT-APPL-SN-102934
US-PATENT-APPL-SN-311376
US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617.1
US-PATENT-CLASS-156-620.1

US-PATENT-CLASS-156-620.3
US-PATENT-CLASS-156-620.4
US-PATENT-5,092,956
N92-21500* c 37 .... INT-PATENT-CLASS-E05C-5/02
NASA-CASE-GSC-13200-1
US-PATENT-APPL-SN-654454
US-PATENT-CLASS-292-DIG.39
US-PATENT-CLASS-292-110
US-PATENT-5,087,088
N92-21586* c 35 .. INT-PATENT-CLASS-G01L-19/04
NASA-CASE-LAR-14340-1-CU
US-PATENT-APPL-SN-575695
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-708
US-PATENT-5,076,103
N92-21587* c 05 . INT-PATENT-CLASS-B64C-21/10
NASA-CASE-LAR-13870-1-CU
US-PATENT-APPL-SN-429516
US-PATENT-CLASS-244-198
US-PATENT-CLASS-244-200
US-PATENT-CLASS-244-212
US-PATENT-CLASS-244-215
US-PATENT-5,088,665
N92-21588* c 02 ... INT-PATENT-CLASS-G01M-9/00
NASA-CASE-LAR-13742-1
US-PATENT-APPL-SN-621144
US-PATENT-CLASS-116-201
US-PATENT-CLASS-116-207
US-PATENT-CLASS-73-147
US-PATENT-5,070,729
N92-21589* c 54 ..... NASA-CASE-MSC-21868-1
US-PATENT-APPL-SN-765273
US-PATENT-CLASS-136-245
US-PATENT-CLASS-136-246
US-PATENT-CLASS-165-1
US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-48.2
US-PATENT-CLASS-165-86
US-PATENT-CLASS-165-904
US-PATENT-5,086,828
N92-21710* c 35 .... INT-PATENT-CLASS-G01F-9/00
NASA-CASE-LAR-13508-1
US-PATENT-APPL-SN-146939
US-PATENT-CLASS-374-124
US-PATENT-CLASS-374-135
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-204.11
US-PATENT-5,085,073
N92-21711* c 27 .... INT-PATENT-CLASS-C08J-5/08
INT-PATENT-CLASS-C08K-3/04
INT-PATENT-CLASS-C08L-79/08
NASA-CASE-LAR-13925-1
US-PATENT-APPL-SN-301925
US-PATENT-CLASS-524-495
US-PATENT-CLASS-525-422
US-PATENT-CLASS-525-432
US-PATENT-CLASS-525-903
US-PATENT-5,098,961
N92-21712* c 32 ... INT-PATENT-CLASS-H03D-1/06
NASA-CASE-NPO-17628-1-CU
US-PATENT-APPL-SN-350813
US-PATENT-CLASS-329-310
US-PATENT-CLASS-375-80
US-PATENT-CLASS-375-94
US-PATENT-4,947,408
N92-21723* c 35 .. INT-PATENT-CLASS-B23B-39/00
NASA-CASE-LEW-14880-1
US-PATENT-APPL-SN-376738
US-PATENT-CLASS-408-14
US-PATENT-CLASS-408-16
US-PATENT-CLASS-408-241S
US-PATENT-5,096,340
N92-21724* c 34 .... INT-PATENT-CLASS-B05B-1/02
INT-PATENT-CLASS-B05B-1/14
NASA-CASE-NPO-17625-1-CU
US-PATENT-APPL-SN-531434
US-PATENT-CLASS-239-533.13
US-PATENT-CLASS-239-543
US-PATENT-CLASS-239-546
US-PATENT-CLASS-239-552
US-PATENT-CLASS-239-602
US-PATENT-5,080,286
N92-21725* c 24 ..... NASA-CASE-LEW-14999-1
US-PATENT-APPL-SN-560926
US-PATENT-CLASS-428-212
US-PATENT-CLASS-428-213
US-PATENT-CLASS-428-426
US-PATENT-CLASS-428-432
US-PATENT-CLASS-428-433
US-PATENT-CLASS-428-469
US-PATENT-CLASS-428-472.2
US-PATENT-5,080,977
N92-21726* c 37 .. INT-PATENT-CLASS-F16B-19/00
. INT-PATENT-CLASS-F16B-35/02
NASA-CASE-MSC-21580-1
US-PATENT-APPL-SN-648772
US-PATENT-CLASS-411-354
US-PATENT-CLASS-411-385
US-PATENT-CLASS-411-65
US-PATENT-CLASS-411-901
US-PATENT-CLASS-411-908
US-PATENT-5,090,857
N92-21727* c 37 ..... NASA-CASE-MSC-21748-1
US-PATENT-APPL-SN-657598
US-PATENT-CLASS-277-3
US-PATENT-CLASS-277-34
US-PATENT-CLASS-277-34.3
US-PATENT-CLASS-285-223
US-PATENT-CLASS-285-346
US-PATENT-CLASS-285-910
US-PATENT-CLASS-285-97
US-PATENT-5,102,150
N92-21728* c 37 .. INT-PATENT-CLASS-B60T-13/04
NASA-CASE-GSC-13376-1
US-PATENT-APPL-SN-677008
US-PATENT-CLASS-188-171
US-PATENT-CLASS-188-82.84
US-PATENT-CLASS-188-82.9
US-PATENT-5,103,941
N92-21999* c 18 ... INT-PATENT-CLASS-B64G-1/62
NASA-CASE-MSC-21536-1
US-PATENT-APPL-SN-458476
US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-162
US-PATENT-CLASS-244-163
US-PATENT-5,064,151
N92-22033* c 32 ... INT-PATENT-CLASS-G06G-7/12
NASA-CASE-NPO-17564-1-CU
US-PATENT-APPL-SN-414811
US-PATENT-CLASS-307-201
US-PATENT-CLASS-364-807
US-PATENT-CLASS-395-24
US-PATENT-5,101,361
N92-22034* c 74 ... INT-PATENT-CLASS-G01B-9/02
NASA-CASE-NPO-17913-1-CU
US-PATENT-APPL-SN-527509
US-PATENT-CLASS-356-351
US-PATENT-CLASS-356-360
US-PATENT-CLASS-356-363
US-PATENT-5,080,490
N92-22035* c 76 ..... NASA-CASE-NPO-17724-1-CU
US-PATENT-APPL-SN-488578
US-PATENT-CLASS-148-DIG.22
US-PATENT-CLASS-437-105
US-PATENT-CLASS-437-107
US-PATENT-CLASS-437-133
US-PATENT-CLASS-437-85
US-PATENT-CLASS-437-936
US-PATENT-CLASS-437-945
US-PATENT-5,094,974
N92-22036* c 37 . INT-PATENT-CLASS-G06F-15/00
NASA-CASE-NPO-17800-1-CU
US-PATENT-APPL-SN-522949
US-PATENT-CLASS-395-86
US-PATENT-CLASS-395-95
US-PATENT-CLASS-901-6
US-PATENT-5,086,400
N92-22037* c 44 . INT-PATENT-CLASS-H01C-31/58
NASA-CASE-LEW-14731-1
US-PATENT-APPL-SN-503486
US-PATENT-CLASS-136-253
US-PATENT-5,080,724
N92-22038* c 35 .... INT-PATENT-CLASS-B23H-9/00
NASA-CASE-LEW-14967-2
US-PATENT-APPL-SN-531433
US-PATENT-APPL-SN-685062
US-PATENT-CLASS-219-69.17
US-PATENT-CLASS-374-29
US-PATENT-CLASS-40-703
US-PATENT-5,086,204
N92-22039* c 35 ... INT-PATENT-CLASS-G01B-5/02
NASA-CASE-MSC-21700-1
US-PATENT-APPL-SN-640775
US-PATENT-CLASS-33-10
US-PATENT-CLASS-33-15D
US-PATENT-CLASS-33-520
US-PATENT-CLASS-33-644
US-PATENT-5,083,378
N92-22040* c 76 ..... NASA-CASE-NPO-17812-2-CU
US-PATENT-APPL-SN-387928
US-PATENT-APPL-SN-642765
US-PATENT-CLASS-156-643
US-PATENT-CLASS-357-5
US-PATENT-CLASS-427-419.1
US-PATENT-CLASS-427-419.2
US-PATENT-CLASS-427-62
US-PATENT-CLASS-427-63
US-PATENT-5,100,694
N92-22041* c 76 .. INT-PATENT-CLASS-H01L-27/12
INT-PATENT-CLASS-H01L-39/22
NASA-CASE-NPO-17812-3-CU
US-PATENT-APPL-SN-387928
US-PATENT-APPL-SN-641798
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-5
US-PATENT-CLASS-505-862
US-PATENT-CLASS-505-871
US-PATENT-5,099,294
N92-22042* c 33 ... INT-PATENT-CLASS-H02N-1/08
NASA-CASE-NPO-17684-1-CU
US-PATENT-APPL-SN-443522
US-PATENT-CLASS-310-308
US-PATENT-CLASS-310-309
US-PATENT-5,084,645
N92-22043* c 37 .. INT-PATENT-CLASS-F16J-15/46
NASA-CASE-LEW-15085-1
US-PATENT-APPL-SN-610879
US-PATENT-CLASS-239-265.11
US-PATENT-CLASS-277-229
US-PATENT-CLASS-277-234
US-PATENT-CLASS-277-3
US-PATENT-CLASS-277-34
US-PATENT-CLASS-277-76
US-PATENT-5,082,293
N92-22044* c 27 ..... NASA-CASE-LAR-14346-1
US-PATENT-APPL-SN-250480
US-PATENT-APPL-SN-434195
US-PATENT-CLASS-525-275
US-PATENT-CLASS-525-421
US-PATENT-CLASS-525-422
US-PATENT-CLASS-526-248
US-PATENT-CLASS-526-249
US-PATENT-CLASS-526-262
US-PATENT-5,081,198
N92-23377* # c 37 ..... NAS 1.71:GSC-13360-1
NASA-CASE-GSC-13360-1
US-PATENT-APPL-SN-772200
N92-23378* # c 37 ..... NAS 1.71:GSC-13359-1
NASA-CASE-GSC-13359-1
US-PATENT-APPL-SN-796496
N92-23461* # c 27 ..... NAS 1.71:LEW-15314-1
NASA-CASE-LEW-15314-1
US-PATENT-APPL-SN-842313
N92-23462* # c 33 ..... NAS 1.71:GSC-13422-1
NASA-CASE-GSC-13422-1
US-PATENT-APPL-SN-772741
N92-23463* # c 44 ..... NAS 1.71:GSC-13450-1
NASA-CASE-GSC-13450-1
US-PATENT-APPL-SN-787993
N92-23464* # c 33 ..... NAS 1.71:NPO-18428-1-CU
NASA-CASE-NPO-18428-1-CU
US-PATENT-APPL-SN-842297
N92-23544* # c 37 ..... NAS 1.71:MSC-21864-1
NASA-CASE-MSC-21864-1
US-PATENT-APPL-SN-799460
N92-23545* # c 35 ..... NAS 1.71:MSC-21951-1
NASA-CASE-MSC-21951-1
US-PATENT-APPL-SN-834451
N92-23546* # c 60 ..... NAS 1.71:NPO-18491-1-CU
NASA-CASE-NPO-18491-1-CU
US-PATENT-APPL-SN-880210
N92-23547* # c 37 ..... NAS 1.71:GSC-13442-1
NASA-CASE-GSC-13442-1
US-PATENT-APPL-SN-843861
N92-23548* # c 37 ..... NAS 1.71:GSC-13141-1
NASA-CASE-GSC-13141-1
US-PATENT-APPL-SN-754875
N92-23549* # c 39 ..... NAS 1.71:GSC-13451-1
NASA-CASE-GSC-13451-1
US-PATENT-APPL-SN-801141
N92-23550* # c 82 ..... NAS 1.71:SSC-00010-2
NASA-CASE-SSC-00010-2
US-PATENT-APPL-SN-842956
N92-23551* # c 74 ..... NAS 1.71:NPO-18702-1-CU
NASA-CASE-NPO-18702-1-CU
US-PATENT-APPL-SN-842300
N92-23553* # c 37 ..... NAS 1.71:NPO-18607-1-CU
NASA-CASE-NPO-18607-1-CU
US-PATENT-APPL-SN-849629
N92-24042* # c 37 ..... NAS 1.71:NPO-18499-1-CU
NASA-CASE-NPO-18499-1-CU
US-PATENT-APPL-SN-862861
N92-24043* # c 37 ..... NAS 1.71:NPO-18498-1-CU
NASA-CASE-NPO-18498-1-CU
US-PATENT-APPL-SN-866779
N92-24044* # c 54 ..... NAS 1.71:MFS-28430-1
NASA-CASE-MFS-28430-1
US-PATENT-APPL-SN-832569
N92-24045* # c 62 ..... NAS 1.71:NPO-18414-1-CU
NASA-CASE-NPO-18414-1-CU
US-PATENT-APPL-SN-880211
N92-24051* # c 37 ..... NAS 1.71:MSC-21648-1
NASA-CASE-MSC-21648-1
US-PATENT-APPL-SN-824806
N92-24052* # c 51 ..... NAS 1.71:MSC-21843-1-NP
NASA-CASE-MSC-21843-1-NP
US-PATENT-APPL-SN-803828

N92-24053* # c 27 ..... NAS 1.71:LEW-15027-2
NASA-CASE-LEW-15027-2
US-PATENT-APPL-SN-824858
N92-24055* # c 37 ..... NAS 1.71:MFS-28634-1
NASA-CASE-MFS-28634-1
US-PATENT-APPL-SN-825895
N92-24057* # c 44 ..... NAS 1.71:LEW-15308-1
NASA-CASE-LEW-15308-1
US-PATENT-APPL-SN-862113
N92-24243* # c 37 ..... NAS 1.71:GSC-13356-1
NASA-CASE-GSC-13356-1
US-PATENT-APPL-SN-760634
N92-24244* # c 18 ..... NAS 1.71:GSC-13408-1
NASA-CASE-GSC-13408-1
US-PATENT-APPL-SN-781625
N92-24245* # c 63 ..... NAS 1.71:NPO-18497-1-CU
NASA-CASE-NPO-18497-1-CU
US-PATENT-APPL-SN-845283
N92-24246* # c 33 ..... NAS 1.71:NPO-18552-1-CU
NASA-CASE-NPO-18552-1-CU
US-PATENT-APPL-SN-854124
N92-25397* c 27 . INT-PATENT-CLASS-B01D-13/02
INT-PATENT-CLASS-C25D-13/00
NASA-CASE-MFS-26050-1
US-PATENT-APPL-SN-808981
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-204-300EC
US-PATENT-CLASS-428-403
US-PATENT-CLASS-428-405
US-PATENT-CLASS-428-407
US-PATENT-4,690,749
N92-25398* c 76 .... INT-PATENT-CLASS-B01D-9/00
NASA-CASE-MFS-26088-1-CU
US-PATENT-APPL-SN-575736
US-PATENT-CLASS-156-DIG.113
US-PATENT-CLASS-156-DIG.62
US-PATENT-CLASS-422-245
US-PATENT-CLASS-422-247
US-PATENT-5,013,531
N92-25399* # c 25 .... INT-PATENT-CLASS-B44C-1/22
INT-PATENT-CLASS-C09K-13/00
INT-PATENT-CLASS-C23F-1/00
NASA-CASE-MFS-29576-1
US-PATENT-APPL-SN-587890
US-PATENT-CLASS-156-656
US-PATENT-CLASS-156-664
US-PATENT-CLASS-252-79.2
US-PATENT-CLASS-252-79.4
US-PATENT-5,034,093
N92-28571* c 74 .... INT-PATENT-CLASS-H01P-1/18
NASA-CASE-LEW-14878-1
US-PATENT-APPL-SN-587921
US-PATENT-CLASS-333-161
US-PATENT-CLASS-333-995
US-PATENT-CLASS-505-1
US-PATENT-CLASS-505-703
US-PATENT-CLASS-505-848
US-PATENT-CLASS-505-866
US-PATENT-5,116,807
N92-28727* c 37 ... INT-PATENT-CLASS-B64G-1/62
NASA-CASE-MSC-21906-1
US-PATENT-APPL-SN-813558
US-PATENT-CLASS-244-161
US-PATENT-CLASS-294-65.5
US-PATENT-CLASS-294-86.4
US-PATENT-CLASS-901-30
US-PATENT-CLASS-901-46
US-PATENT-5,125,601
N92-28728* c 25 . INT-PATENT-CLASS-G01N-27/26
NASA-CASE-MFS-26049-2-NP
US-PATENT-APPL-SN-376487
US-PATENT-APPL-SN-599601
US-PATENT-CLASS-204-180.1
US-PATENT-CLASS-204-183.3
US-PATENT-CLASS-204-299R
US-PATENT-5,108,568
N92-28729* c 02 .... INT-PATENT-CLASS-B64C-3/14
NASA-CASE-LAR-14281-1
US-PATENT-APPL-SN-560923
US-PATENT-CLASS-244-35R
US-PATENT-CLASS-244-36
US-PATENT-5,112,120
N92-28750* c 18 ... INT-PATENT-CLASS-B64G-1/64
NASA-CASE-MFS-28421-1
US-PATENT-APPL-SN-481537
US-PATENT-CLASS-244-161
US-PATENT-CLASS-358-103
US-PATENT-CLASS-364-459
US-PATENT-5,109,345
N92-28751* c 27 ..... NASA-CASE-LAR-14145-1
US-PATENT-APPL-SN-508316
US-PATENT-APPL-SN-732884
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-127
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-224
US-PATENT-5,116,934
N92-28752* c 34 .. INT-PATENT-CLASS-F28D-17/00
NASA-CASE-LAR-14033-1
US-PATENT-APPL-SN-501909
US-PATENT-CLASS-165-104.31
US-PATENT-CLASS-165-104.34
US-PATENT-CLASS-165-109.1
US-PATENT-CLASS-165-110
US-PATENT-CLASS-165-4
US-PATENT-CLASS-165-41
US-PATENT-5,107,920
N92-28753* c 33 . INT-PATENT-CLASS-H01M-10/40
NASA-CASE-NPO-17922-1-CU
US-PATENT-APPL-SN-596139
US-PATENT-CLASS-252-62.2
US-PATENT-CLASS-429-192
US-PATENT-5,110,694
N92-28754* c 37 . INT-PATENT-CLASS-B05C-17/02
NASA-CASE-GSC-13230-1
US-PATENT-APPL-SN-531374
US-PATENT-CLASS-15-230.11
US-PATENT-CLASS-29-110.5
US-PATENT-CLASS-29-123
US-PATENT-CLASS-29-132
US-PATENT-5,068,951
N92-28755* c 52 .... INT-PATENT-CLASS-A61B-3/14
NASA-CASE-MSC-21675-1
US-PATENT-APPL-SN-562095
US-PATENT-CLASS-351-206
US-PATENT-CLASS-351-221
US-PATENT-5,125,730
N92-28756* c 25 .... INT-PATENT-CLASS-C25B-1/04
INT-PATENT-CLASS-C25B-1/12
NASA-CASE-MSC-21572-1-SB
US-PATENT-APPL-SN-648933
US-PATENT-CLASS-204-129
US-PATENT-5,110,436
N92-28757* c 39 . INT-PATENT-CLASS-G01N-27/80
INT-PATENT-CLASS-G01R-33/12
NASA-CASE-LAR-13817-5
US-PATENT-APPL-SN-210486
US-PATENT-APPL-SN-449211
US-PATENT-APPL-SN-686263
US-PATENT-CLASS-324-226
US-PATENT-CLASS-324-235
US-PATENT-CLASS-73-601
US-PATENT-5,121,058
N92-29090* c 27 .. INT-PATENT-CLASS-B32B-15/01
INT-PATENT-CLASS-B32B-15/20
INT-PATENT-CLASS-B32B-5/02
NASA-CASE-LEW-15155-1
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US-PATENT-CLASS-428-614
US-PATENT-CLASS-428-660
US-PATENT-CLASS-428-661
US-PATENT-5,116,690
N92-29092* c 37 . INT-PATENT-CLASS-A47H-1/144
NASA-CASE-LEW-15196-1
US-PATENT-APPL-SN-687606
US-PATENT-CLASS-16-111R
US-PATENT-CLASS-16-114R
US-PATENT-CLASS-248-222.1
US-PATENT-CLASS-248-251
US-PATENT-CLASS-256-59
US-PATENT-5,126,131
N92-29094* c 26 .... INT-PATENT-CLASS-B23K-1/00
NASA-CASE-GSC-13344-1
US-PATENT-APPL-SN-718046
US-PATENT-CLASS-219-85.15
US-PATENT-CLASS-219-85.19
US-PATENT-5,126,527
N92-29097* c 35 .... INT-PATENT-CLASS-G01L-7/08
INT-PATENT-CLASS-G01L-9/06
NASA-CASE-LAR-14579-1
US-PATENT-APPL-SN-690198
US-PATENT-CLASS-338-4
US-PATENT-CLASS-73-708
US-PATENT-CLASS-73-721
US-PATENT-CLASS-73-727
US-PATENT-CLASS-73-756
US-PATENT-5,116,331
N92-29099* c 37 .. INT-PATENT-CLASS-F16C-32/04
INT-PATENT-CLASS-H02K-1/14
NASA-CASE-GSC-13346-1
US-PATENT-APPL-SN-691609
US-PATENT-CLASS-310-90.5
US-PATENT-CLASS-505-876
US-PATENT-5,117,139
N92-29101* c 39 . INT-PATENT-CLASS-G01R-27/72
INT-PATENT-CLASS-G01R-33/12
NASA-CASE-LAR-13817-4
US-PATENT-APPL-SN-210486
US-PATENT-APPL-SN-449211
US-PATENT-APPL-SN-608504
US-PATENT-CLASS-324-239
US-PATENT-5,117,184
N92-29117* c 74 .... INT-PATENT-CLASS-G02F-1/01
NASA-CASE-LAR-14588-1-CU
US-PATENT-APPL-SN-653605
US-PATENT-CLASS-356-370
US-PATENT-CLASS-356-414
US-PATENT-CLASS-359-246
US-PATENT-CLASS-359-247
US-PATENT-CLASS-359-281
US-PATENT-5,128,797
N92-29120* c 37 .... INT-PATENT-CLASS-F16C-9/00
NASA-CASE-GSC-13251-1
US-PATENT-APPL-SN-714814
US-PATENT-CLASS-285-381
US-PATENT-CLASS-292-DIG.66
US-PATENT-CLASS-403-28
US-PATENT-CLASS-403-404
US-PATENT-CLASS-411-909
US-PATENT-5,108,214
N92-29122* c 74 .... INT-PATENT-CLASS-G01J-1/20
NASA-CASE-NPO-18095-1-CU
US-PATENT-APPL-SN-665509
US-PATENT-CLASS-250-201.9
US-PATENT-CLASS-359.849
US-PATENT-5,113,064
N92-29124* c 32 . INT-PATENT-CLASS-G01R-23/16
NASA-CASE-NPO-17759-1-CU
US-PATENT-APPL-SN-660371
US-PATENT-CLASS-324-77C
US-PATENT-CLASS-324-77CS
US-PATENT-CLASS-324-78D
US-PATENT-CLASS-324-78F
US-PATENT-5,122,731
N92-29125* c 34 .. INT-PATENT-CLASS-F28D-15/02
NASA-CASE-LEW-15235-1
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US-PATENT-CLASS-165-104.22
US-PATENT-CLASS-165-41
US-PATENT-CLASS-417-209
US-PATENT-5,127,471
N92-29129* c 54 ... INT-PATENT-CLASS-G06K-9/00
NASA-CASE-NPO-17552-1-CU
US-PATENT-APPL-SN-251500
US-PATENT-CLASS-358-105
US-PATENT-CLASS-364-424.01
US-PATENT-CLASS-382-1
US-PATENT-CLASS-382-22
US-PATENT-CLASS-901-1
US-PATENT-5,109,425
N92-29130* c 70 . INT-PATENT-CLASS-G01N-27/72
NASA-CASE-NPO-18187-1-CU
US-PATENT-APPL-SN-618789
US-PATENT-CLASS-324-205
US-PATENT-CLASS-324-244
US-PATENT-CLASS-324-261
US-PATENT-CLASS-361-148
US-PATENT-CLASS-361-149
US-PATENT-CLASS-361-267
US-PATENT-5,126,669
N92-29132* c 60 . INT-PATENT-CLASS-G11B-17/22
INT-PATENT-CLASS-G11B-3/74
INT-PATENT-CLASS-G11B-5/09
NASA-CASE-GSC-13196-1
US-PATENT-APPL-SN-357928
US-PATENT-CLASS-360-48
US-PATENT-CLASS-360-98.01
US-PATENT-CLASS-369-32
US-PATENT-CLASS-369-95
US-PATENT-5,111,345
N92-29133* c 74 ... INT-PATENT-CLASS-G01D-5/34
NASA-CASE-GSC-13175-1
US-PATENT-APPL-SN-506636
US-PATENT-CLASS-250-231.14
US-PATENT-CLASS-369-44.26
US-PATENT-5,107,107
N92-29135* c 35 ... INT-PATENT-CLASS-G21K-7/00
NASA-CASE-MFS-28485-1
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US-PATENT-CLASS-378-43
US-PATENT-5,107,526
N92-29137* c 54 ..... NASA-CASE-MSC-21589-1
US-PATENT-APPL-SN-529427
US-PATENT-CLASS-252-DIG.13
US-PATENT-CLASS-252-DIG.14
US-PATENT-CLASS-252-DIG.5
US-PATENT-CLASS-252-545
US-PATENT-CLASS-252-547
US-PATENT-CLASS-4-661
US-PATENT-CLASS-424-70
US-PATENT-5,116,543
N92-29138* c 37 .... INT-PATENT-CLASS-B66C-1/62
NASA-CASE-GSC-13261-1
US-PATENT-APPL-SN-628529

US-PATENT-CLASS-294-119.1
US-PATENT-CLASS-294-902
US-PATENT-CLASS-901-39
US-PATENT-5,120,101
N92-29140* c 37 ... INT-PATENT-CLASS-B25G-3/00
NASA-CASE-GSC-13220-1
US-PATENT-APPL-SN-636532
US-PATENT-CLASS-403-13
US-PATENT-CLASS-403-24
US-PATENT-5,112,154
N92-29141* c 23 INT-PATENT-CLASS-C07D-271/10
INT-PATENT-CLASS-C08G-73/08
NASA-CASE-LAR-14427-1
US-PATENT-APPL-SN-645089
US-PATENT-CLASS-528-185
US-PATENT-CLASS-548-143
US-PATENT-5,118,781
N92-29143* c 44 .... INT-PATENT-CLASS-F03G-6/00
NASA-CASE-LEW-14949-1
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US-PATENT-CLASS-126-433
US-PATENT-CLASS-126-436
US-PATENT-CLASS-60-641.8
US-PATENT-CLASS-60-659
US-PATENT-5,113,659
N92-29148* c 47 . INT-PATENT-CLASS-G01C-21/00
NASA-CASE-NPO-18115-1-CU
US-PATENT-APPL-SN-618790
US-PATENT-CLASS-364-443
US-PATENT-CLASS-374-112
US-PATENT-CLASS-73-178R
US-PATENT-5,117,689
N92-29150* c 37 .. INT-PATENT-CLASS-F16B-37/08
NASA-CASE-MSC-21799-1
US-PATENT-APPL-SN-759367
US-PATENT-CLASS-411-14
US-PATENT-CLASS-411-267
US-PATENT-CLASS-411-433
US-PATENT-5,118,237
N92-29151* c 37 . INT-PATENT-CLASS-G02B-26/02
NASA-CASE-GSC-13189-2
US-PATENT-APPL-SN-331119
US-PATENT-APPL-SN-613188
US-PATENT-CLASS-359-230
US-PATENT-CLASS-359-236
US-PATENT-5,128,796
N92-29153* c 33 ... INT-PATENT-CLASS-G05G-9/00
NASA-CASE-GSC-13187-1
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US-PATENT-CLASS-248-65
US-PATENT-CLASS-248-68.1
US-PATENT-CLASS-273-148B
US-PATENT-CLASS-338-128
US-PATENT-CLASS-74-471XY
US-PATENT-5,113,714
N92-29154* c 38 . INT-PATENT-CLASS-G01R-35/00
NASA-CASE-GSC-13386-1
US-PATENT-APPL-SN-758977
US-PATENT-CLASS-324-224
— US-PATENT-CLASS-324-226
US-PATENT-CLASS-324-262
US-PATENT-CLASS-356-432
US-PATENT-CLASS-374-4
US-PATENT-CLASS-374-45
US-PATENT-5,124,640
N92-29155* c 39 ..... NASA-CASE-LAR-13817-2
US-PATENT-APPL-SN-210486
US-PATENT-APPL-SN-449209
US-PATENT-CLASS-324-209
US-PATENT-CLASS-324-226
US-PATENT-CLASS-324-227
US-PATENT-CLASS-324-235
US-PATENT-CLASS-324-239
US-PATENT-CLASS-73-801
US-PATENT-5,109,195
N92-29156* c 35 .. INT-PATENT-CLASS-F25B-19/02
NASA-CASE-NPO-18184-1-CU
US-PATENT-APPL-SN-636076
US-PATENT-CLASS-62.224
US-PATENT-CLASS-62-51.2
US-PATENT-5,119,637
N92-29157* c 27 INT-PATENT-CLASS-C08F-283/04
NASA-CASE-LAR-13669-1
US-PATENT-APPL-SN-084064
US-PATENT-CLASS-525-420
US-PATENT-CLASS-525-432
US-PATENT-CLASS-528-179
US-PATENT-CLASS-528-185
US-PATENT-CLASS-528-352
US-PATENT-CLASS-528-353
US-PATENT-5,116,939
N92-29158* c 74 ..... NASA-CASE-LAR-13616-3
US-PATENT-APPL-SN-140185
US-PATENT-APPL-SN-337768
US-PATENT-APPL-SN-693049
US-PATENT-CLASS-427-108
US-PATENT-CLASS-427-109
US-PATENT-CLASS-427-38
US-PATENT-CLASS-427-66
US-PATENT-CLASS-427-68
US-PATENT-5,104,683
N92-29765* # c 37 ..... NAS 1.71:NPO-18668-1-CU
NASA-CASE-NPO-18668-1-CU
US-PATENT-APPL-SN-912955
N92-29829* # c 38 ..... NAS 1.71:LAR-14559-1
NASA-CASE-LAR-14559-1
US-PATENT-APPL-SN-878631
N92-29830* # c 34 ..... NAS 1.71:LAR-14815-1-CU
NASA-CASE-LAR-14815-1-CU
US-PATENT-APPL-SN-820432
N92-29831* # c 27 ..... NAS 1.71:MFS-28682-1
NASA-CASE-MFS-28682-1
US-PATENT-APPL-SN-912401
N92-29832* # c 74 ..... NAS 1.71:NPO-18410-1-CU
NASA-CASE-NPO-18410-1-CU
US-PATENT-APPL-SN-805341
N92-29951* # c 74 ..... NAS 1.71:LAR-14779-1
NASA-CASE-LAR-14779-1
US-PATENT-APPL-SN-885714
N92-29952* # c 35 ..... NAS 1.71:MSC-21961-1
NASA-CASE-MSC-21961-1
US-PATENT-APPL-SN-901626
N92-29953* # c 27 ..... NAS 1.71:LAR-14643-1
NASA-CASE-LAR-14643-1
US-PATENT-APPL-SN-790730
N92-29954* # c 34 ..... NAS 1.71:LAR-14612-1
NASA-CASE-LAR-14612-1
US-PATENT-APPL-SN-820431
N92-29955* # c 63 ..... NAS 1.71:NPO-17807-2-CU
NASA-CASE-NPO-17807-2-CU
US-PATENT-APPL-SN-789567
N92-30024* # c 34 ..... NAS 1.71:LAR-14033-2
NASA-CASE-LAR-14033-2
US-PATENT-APPL-SN-843653
N92-30025* # c 08 ..... NAS 1.71:LAR-14219-1
NASA-CASE-LAR-14219-1
US-PATENT-APPL-SN-788908
N92-30026* # c 37 ..... NAS 1.71:MSC-21967-1
NASA-CASE-MSC-21967-1
US-PATENT-APPL-SN-892053
N92-30027* # c 74 ..... NAS 1.71:MSC-21915-1
NASA-CASE-MSC-21915-1
US-PATENT-APPL-SN-863883
N92-30028* # c 39 ..... NAS 1.71:LAR-14698-1
NASA-CASE-LAR-14698-1
US-PATENT-APPL-SN-866769
N92-30029* # c 74 ..... NAS 1.71:LAR-14607-1SB
NASA-CASE-LAR-14607-1SB
US-PATENT-APPL-SN-855363
N92-30030* # c 35 ..... NAS 1.71:LAR-14724-1
NASA-CASE-LAR-14724-1
US-PATENT-APPL-SN-876592
N92-30083* # c 29 ..... NAS 1.71:NPO-18448-1-CU
NASA-CASE-NPO-18448-1-CU
US-PATENT-APPL-SN-786612
N92-30084* # c 74 ..... NAS 1.71:NPO-18478-1-CU
NASA-CASE-NPO-18478-1-CU
US-PATENT-APPL-SN-883957
N92-30085* # c 63 ..... NAS 1.71:NPO-18553-1-CU
NASA-CASE-NPO-18553-1-CU
US-PATENT-APPL-SN-908677
N92-30086* # c 33 ..... NAS 1.71:NPO-18578-1-CU
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US-PATENT-APPL-SN-912956
N92-30097* # c 37 ..... NAS 1.71:LAR-13805-1
NASA-CASE-LAR-13805-1
US-PATENT-APPL-SN-770509
N92-30098* # c 25 ..... NAS 1.71:LAR-14398-1
NASA-CASE-LAR-14398-1
US-PATENT-APPL-SN-736985
N92-30099* # c 39 ..... NAS 1.71:LAR-14775-1
NASA-CASE-LAR-14775-1
US-PATENT-APPL-SN-881912
N92-30100* # c 27 ..... NAS 1.71:MSC-21529-1
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US-PATENT-APPL-SN-857901
N92-30101* # c 37 ..... NAS 1.71:MSC-21903-1
NASA-CASE-MSC-21903-1
US-PATENT-APPL-SN-902266
N92-30102* # c 76 ..... NAS 1.71:NPO-18625-1-CU
NASA-CASE-NPO-18625-1-CU
US-PATENT-APPL-SN-912981
N92-30103* # c 32 ..... NAS 1.71:NPO-18713-1-CU
NASA-CASE-NPO-18713-1-CU
US-PATENT-APPL-SN-802078
N92-30104* # c 74 ..... NAS 1.71:NPO-17794-1-CU
NASA-CASE-NPO-17794-1-CU
US-PATENT-APPL-SN-904550
N92-30312* # c 74 ..... NAS 1.71:LAR-14568-1
NASA-CASE-LAR-14568-1
US-PATENT-APPL-SN-808302
N92-30313* # c 27 ..... NAS 1.71:LAR-14753-1
NASA-CASE-LAR-14753-1
US-PATENT-APPL-SN-845090
N92-30314* # c 63 ..... NAS 1.71:MSC-21874-1
NASA-CASE-MSC-21874-1
US-PATENT-APPL-SN-813556
N92-30315* # c 18 ..... NAS 1.71:MSC-21723-1
NASA-CASE-MSC-21723-1
US-PATENT-APPL-SN-887001
N92-30316* # c 37 ..... NAS 1.71:MSC-21918-1
NASA-CASE-MSC-21918-1
US-PATENT-APPL-SN-899536
N92-30317* # c 39 ..... NAS 1.71:LAR-14654-1
NASA-CASE-LAR-14654-1
US-PATENT-APPL-SN-849612
N92-30386* # c 82 ..... NAS 1.71:LAR-14651-1
NASA-CASE-LAR-14651-1
US-PATENT-APPL-SN-799571
N92-30387* # c 34 ..... NAS 1.71:LAR-14682-1
NASA-CASE-LAR-14682-1
US-PATENT-APPL-SN-887002
N92-30388* # c 37 ..... NAS 1.71:LAR-14789-1
NASA-CASE-LAR-14789-1
US-PATENT-APPL-SN-822457
N92-30389* # c 33 ..... NAS 1.71:LAR-14811-1
NASA-CASE-LAR-14811-1
US-PATENT-APPL-SN-858176
N92-30390* # c 34 ..... NAS 1.71:LAR-14824-1-SB
NASA-CASE-LAR-14824-1-SB
US-PATENT-APPL-SN-823805
N92-30391* # c 32 ..... NAS 1.71:NPO-18701-1-CU
NASA-CASE-NPO-18701-1-CU
US-PATENT-APPL-SN-909501
N92-30539* # c 27 ..... NAS 1.71:MSC-21884-1
NASA-CASE-MSC-21884-1
US-PATENT-APPL-SN-887674
N92-30540* # c 37 ..... NAS 1.71:MSC-21940-1
NASA-CASE-MSC-21940-1
US-PATENT-APPL-SN-892072
N92-30541* # c 60 ..... NAS 1.71:LAR-13950-1
NASA-CASE-LAR-13950-1
US-PATENT-APPL-SN-891604
N92-30542* # c 33 ..... NAS 1.71:NPO-18062-1-CU
NASA-CASE-NPO-18062-1-CU
US-PATENT-APPL-SN-877966
N92-30543* # c 61 ..... NAS 1.71:NPO-18435-1-CU
NASA-CASE-NPO-18435-1-CU
US-PATENT-APPL-SN-792501
N92-31150* # c 32 ..... NASA-CASE-LAR-14679-2
US-PATENT-APPL-SN-790731
N92-31257* # c 32 ..... NAS 1.71:LAR-14418-1
NASA-CASE-LAR-14418-1
US-PATENT-APPL-SN-790723
N92-31788* c 36 .... INT-PATENT-CLASS-H01S-3/10
NASA-CASE-LAR-13772-1
US-PATENT-APPL-SN-359460
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US-PATENT-CLASS-372-30
US-PATENT-5,128,949
N92-31790* c 35 ... INT-PATENT-CLASS-C12M-1/10
INT-PATENT-CLASS-C12M-1/12
INT-PATENT-CLASS-C12M-3/00
INT-PATENT-CLASS-C12M-3/02
NASA-CASE-MFS-28370-1
US-PATENT-APPL-SN-386175
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US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-312
US-PATENT-5,104,802
N92-31792* c 27 .. INT-PATENT-CLASS-C08L-79/08
NASA-CASE-LAR-14159-1-CU
US-PATENT-APPL-SN-439317
US-PATENT-CLASS-525-420
US-PATENT-CLASS-525-434
US-PATENT-CLASS-525-436
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N92-33008* c 27 ..... NASA-CASE-LAR-14001-1
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US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-185
US-PATENT-CLASS-528-229
US-PATENT-CLASS-528-352
US-PATENT-CLASS-528-353
US-PATENT-5,145,937
N92-33009* c 25 ..... NASA-CASE-MSC-21487-1
US-PATENT-APPL-SN-429739
US-PATENT-CLASS-210-198.2
US-PATENT-CLASS-210-502.1
US-PATENT-CLASS-210-635
US-PATENT-CLASS-428-315.5
US-PATENT-CLASS-428-315.7
US-PATENT-CLASS-428-404
US-PATENT-CLASS-530-413
US-PATENT-5,141,806
N92-33010* c 35 ... INT-PATENT-CLASS-B64G-1/66

NASA-CASE-MFS-28425-1
US-PATENT-APPL-SN-527462
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-343-766
US-PATENT-CLASS-74-61
US-PATENT-CLASS-74-87
US-PATENT-5,129,600

N92-33011* c 33 . INT-PATENT-CLASS-G06F-11/10
NASA-CASE-NPO-17897-1-CU
US-PATENT-APPL-SN-480449
US-PATENT-CLASS-371-37.1
US-PATENT-5,130,990

N92-33012*# c 89 ... INT-PATENT-CLASS-G21K-7/00
NASA-CASE-MFS-28013-4
US-PATENT-APPL-SN-545008
US-PATENT-APPL-SN-765979
US-PATENT-CLASS-378-210
US-PATENT-CLASS-378-43
US-PATENT-5,146,482

N92-33013* c 18 ... INT-PATENT-CLASS-B64G-1/40
NASA-CASE-LAR-13780-1
US-PATENT-APPL-SN-575737
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-172
US-PATENT-5,143,327

N92-33014* c 27 ..... NASA-CASE-LAR-14163-1
US-PATENT-APPL-SN-560717
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-173
US-PATENT-CLASS-528-179
US-PATENT-CLASS-528-182
US-PATENT-CLASS-528-188
US-PATENT-5,147,966

N92-33015* c 27 ..... NASA-CASE-LAR-14351-1
US-PATENT-APPL-SN-589571
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-185
US-PATENT-CLASS-528-352
US-PATENT-CLASS-528-353
US-PATENT-CLASS-564-315
US-PATENT-5,145,942

N92-33016* c 35 .... INT-PATENT-CLASS-A61B-5/02
NASA-CASE-LAR-14088-1-CU
US-PATENT-APPL-SN-552670
US-PATENT-CLASS-128-715
US-PATENT-CLASS-128-775
US-PATENT-5,140,992

N92-33017* c 74 .. INT-PATENT-CLASS-H01J-40/14
NASA-CASE-LAR-14402-1-CU
US-PATENT-APPL-SN-586369
US-PATENT-CLASS-250-227.21
US-PATENT-CLASS-250-231.19
US-PATENT-CLASS-358-12
US-PATENT-CLASS-73-705
US-PATENT-5,146,083

N92-33018* c 37 ..... NASA-CASE-MSC-21463-1
US-PATENT-APPL-SN-636531
US-PATENT-CLASS-244-161
US-PATENT-CLASS-294-65.5
US-PATENT-CLASS-294-66.2
US-PATENT-CLASS-294-86.4
US-PATENT-CLASS-294-907
US-PATENT-CLASS-414-737
US-PATENT-CLASS-901-40
US-PATENT-5,145,227

N92-33019* c 63 . INT-PATENT-CLASS-G05B-19/42
NASA-CASE-NPO-17852-1-CU
US-PATENT-APPL-SN-615668
US-PATENT-CLASS-318-567
US-PATENT-CLASS-318-568.11
US-PATENT-CLASS-318-568.19
US-PATENT-CLASS-364-191
US-PATENT-CLASS-395-90
US-PATENT-CLASS-901-47
US-PATENT-5,150,026

N92-33020* c 31 . INT-PATENT-CLASS-B29C-65/48
NASA-CASE-LAR-14446-1
US-PATENT-APPL-SN-699288
US-PATENT-APPL-156-241
US-PATENT-APPL-156-285
US-PATENT-APPL-156-293
US-PATENT-APPL-264-272.15
US-PATENT-APPL-29-856
US-PATENT-5,149,387

N92-33021* c 33 ... INT-PATENT-CLASS-G01K-7/30
NASA-CASE-LAR-14567-1-CU
US-PATENT-APPL-SN-773376
US-PATENT-CLASS-374-175
US-PATENT-CLASS-73-1H
US-PATENT-CLASS-73-571
US-PATENT-5,146,780

N92-33022* c 74 . INT-PATENT-CLASS-G02B-27/42
INT-PATENT-CLASS-G03B-1/16
NASA-CASE-NPO-18379-1-CU
US-PATENT-APPL-SN-797569
US-PATENT-CLASS-359-559
US-PATENT-CLASS-359-561
US-PATENT-CLASS-359-7
US-PATENT-5,150,228

N92-33028* c 74 .... INT-PATENT-CLASS-H01J-3/14
NASA-CASE-NPO-18098-1-CU
US-PATENT-APPL-SN-633746
US-PATENT-CLASS-250-216
US-PATENT-CLASS-359-241
US-PATENT-5,130,530

N92-33029* c 25 ..... NASA-CASE-MSC-21584-1
US-PATENT-APPL-SN-638600
US-PATENT-CLASS-210-209
US-PATENT-CLASS-210-266
US-PATENT-CLASS-210-269
US-PATENT-CLASS-210-287
US-PATENT-CLASS-210-670
US-PATENT-CLASS-210-748
US-PATENT-CLASS-210-758
US-PATENT-5,141,636

N92-33030* c 33 .... INT-PATENT-CLASS-B23K-9/24
NASA-CASE-MFS-29766-1
US-PATENT-APPL-SN-677182
US-PATENT-CLASS-219-72
US-PATENT-CLASS-219-75
US-PATENT-5,149,932

N92-33031* c 37 .. INT-PATENT-CLASS-F16H-21/16
INT-PATENT-CLASS-F16H-49/00
NASA-CASE-LAR-14515-1-CU
US-PATENT-APPL-SN-678551
US-PATENT-CLASS-74-25
US-PATENT-CLASS-74-437
US-PATENT-5,146,803

N92-33032* c 52 ... INT-PATENT-CLASS-A61M-1/00
NASA-CASE-GSC-13306-1
US-PATENT-APPL-SN-674828
US-PATENT-CLASS-148-402
US-PATENT-CLASS-606-106
US-PATENT-CLASS-606-127
US-PATENT-CLASS-606-78
US-PATENT-5,133,721

N92-33057* c 60 ..... NASA-CASE-NPO-17997-1-CU
US-PATENT-APPL-SN-481013
US-PATENT-CLASS-359-107
US-PATENT-CLASS-359-108
US-PATENT-CLASS-359-559
US-PATENT-CLASS-359-561
US-PATENT-CLASS-365-49
US-PATENT-CLASS-382-31
US-PATENT-CLASS-382-32
US-PATENT-5,131,055

N92-33611* c 25 ..... NASA-CASE-LAR-13388-1
US-PATENT-APPL-SN-628062
US-PATENT-CLASS-210-222
US-PATENT-CLASS-210-223
US-PATENT-CLASS-210-695
US-PATENT-CLASS-210-748
US-PATENT-CLASS-210-767
US-PATENT-CLASS-55-15
US-PATENT-CLASS-55-277
US-PATENT-5,147,562

N92-33612* c 31 . INT-PATENT-CLASS-B65D-83/10
NASA-CASE-MSC-21776-1
US-PATENT-APPL-SN-772763
US-PATENT-CLASS-206-364
US-PATENT-CLASS-206-366
US-PATENT-CLASS-206-370
US-PATENT-CLASS-206-818
US-PATENT-CLASS-220-908
US-PATENT-5,145,063

N92-33614* c 35 ... INT-PATENT-CLASS-G01K-7/00
INT-PATENT-CLASS-G01K-7/16
NASA-CASE-GSC-13406-1
US-PATENT-APPL-SN-765070
US-PATENT-CLASS-338-22SD
US-PATENT-CLASS-338-25
US-PATENT-CLASS-357-28
US-PATENT-CLASS-374-178
US-PATENT-CLASS-374-185
US-PATENT-5,141,334

N92-33616* c 37 .. INT-PATENT-CLASS-A47B-97/04
NASA-CASE-GSC-13415-1
US-PATENT-APPL-SN-812932
US-PATENT-CLASS-248-453
US-PATENT-CLASS-248-455
US-PATENT-CLASS-248-463
US-PATENT-5,149,046

N92-33634* c 37 .. INT-PATENT-CLASS-B25J-17/00
NASA-CASE-GSC-13161-1
US-PATENT-APPL-SN-754828
US-PATENT-CLASS-310-112
US-PATENT-CLASS-310-82
US-PATENT-CLASS-74-479
US-PATENT-CLASS-901-23
US-PATENT-CLASS-901-28
US-PATENT-CLASS-901-9
US-PATENT-5,142,932

N92-34160* c 27 . INT-PATENT-CLASS-C04B-35/56
NASA-CASE-ARC-11891-2-SB
US-PATENT-APPL-SN-361471
US-PATENT-APPL-SN-643629
US-PATENT-CLASS-501-92
US-PATENT-CLASS-501-93
US-PATENT-CLASS-501-96
US-PATENT-CLASS-501-97
US-PATENT-5,130,278

N92-34171* c 76 ..... NASA-CASE-MFS-28507-1
US-PATENT-APPL-SN-601954
US-PATENT-CLASS-156-600
US-PATENT-CLASS-156-621
US-PATENT-CLASS-422-102
US-PATENT-CLASS-422-245
US-PATENT-CLASS-422-254
US-PATENT-CLASS-422-56
US-PATENT-CLASS-422-99
US-PATENT-5,130,105

N92-34172* c 02 ... INT-PATENT-CLASS-G01P-3/36
NASA-CASE-LAR-14685-1
US-PATENT-APPL-SN-718313
US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-318
US-PATENT-CLASS-73-861.05
US-PATENT-5,153,665

N92-34173* c 37 . INT-PATENT-CLASS-F16M-13/00
NASA-CASE-LAR-14352-1
US-PATENT-APPL-SN-735149
US-PATENT-CLASS-188-378
US-PATENT-CLASS-248-550
US-PATENT-5,150,875

N92-34174* c 39 .. INT-PATENT-CLASS-F16B-31/02
NASA-CASE-LAR-14168-1
US-PATENT-APPL-SN-717755
US-PATENT-CLASS-73-761
US-PATENT-CLASS-73-862.59
US-PATENT-5,150,620

N92-34205*# c 37 ..... NAS 1.71:NPO-18690-1-CU
NASA-CASE-NPO-18690-1-CU
US-PATENT-APPL-SN-917554

N92-34206*# c 25 ..... NAS 1.71:LEW-15360-1
NASA-CASE-LEW-15360-1
US-PATENT-APPL-SN-884097

N92-34208*# c 24 ..... NAS 1.71:LEW-14162-3
NASA-CASE-LEW-14162-3
US-PATENT-APPL-SN-880851

N92-34210*# c 54 ..... NAS 1.71:MSC-21632-1
NASA-CASE-MSC-21632-1
US-PATENT-APPL-SN-929556

N92-34212*# c 37 ..... NAS 1.71:LAR-14565-1-CU
NASA-CASE-LAR-14565-1-CU
US-PATENT-APPL-SN-793974

N92-34213*# c 09 ..... NAS 1.71:LAR-14232-1
NASA-CASE-LAR-14232-1
US-PATENT-APPL-SN-914905

N92-34214*# c 24 ..... NAS 1.71:LAR-14954-1
NASA-CASE-LAR-14954-1
US-PATENT-APPL-SN-924689

N92-34229* c 51 ..... NASA-CASE-MSC-21560-1
US-PATENT-APPL-SN-213558
US-PATENT-APPL-SN-213559
US-PATENT-APPL-SN-317776
US-PATENT-APPL-SN-317931
US-PATENT-CLASS-435-240.24
US-PATENT-CLASS-435-240.25
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-3
US-PATENT-5,153,132

N92-34231* c 51 ..... NASA-CASE-MSC-21559-1
US-PATENT-APPL-SN-213558
US-PATENT-APPL-SN-213559
US-PATENT-APPL-SN-317776
US-PATENT-CLASS-435-240.24
US-PATENT-CLASS-435-240.25
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-3
US-PATENT-CLASS-435-312
US-PATENT-5,155,034

N92-34232* c 51 ..... NASA-CASE-MSC-21662-1
US-PATENT-APPL-SN-625345
US-PATENT-CLASS-435-240.240
US-PATENT-CLASS-435-284
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-312
US-PATENT-CLASS-435-313
US-PATENT-CLASS-435-315
US-PATENT-5,153,131

N92-34239*# c 26 ..... NAS 1.71:MFS-28496-1
NASA-CASE-MFS-28496-1

US-PATENT-APPL-SN-929553
N92-34240* # c 63 ..... NAS 1.71:NPO-18645-1-CU
NASA-CASE-NPO-18645-1-CU
US-PATENT-APPL-SN-941335
N92-34241* # c 74 ..... NAS 1.71:NPO-18433-1-CU
NASA-CASE-NPO-18433-1-CU
US-PATENT-APPL-SN-936417
N92-34242* # c 37 ..... NAS 1.71:MSC-21950-1
NASA-CASE-MSC-21950-1
US-PATENT-APPL-SN-902265
N92-34243* # c 02 ..... NAS 1.71:LEW-14791-1
NASA-CASE-LEW-14791-1
US-PATENT-APPL-SN-943659
N93-10108* c 47 . INT-PATENT-CLASS-G01R-31/02
INT-PATENT-CLASS-G01W-1/00
NASA-CASE-MFS-26102-2-CU
US-PATENT-APPL-SN-776710
US-PATENT-CLASS-324-72
US-PATENT-CLASS-340-601
US-PATENT-5,153,508
US-PATENT-7,571,687
N93-10109* . c 51 ... INT-PATENT-CLASS-C12N-5/02
NASA-CASE-MSC-21293-2
US-PATENT-APPL-SN-213559
US-PATENT-APPL-SN-545233
US-PATENT-CLASS-435-240.24
US-PATENT-CLASS-435-240.25
US-PATENT-CLASS-435-240.46
US-PATENT-5,155,035
N93-10110* c 51 ... INT-PATENT-CLASS-C12N-5/02
NASA-CASE-MSC-21294-2
US-PATENT-APPL-SN-213558
US-PATENT-APPL-SN-687605
US-PATENT-CLASS-435-240.24
US-PATENT-CLASS-435-240.241
US-PATENT-CLASS-435-240.25
US-PATENT-CLASS-435-240.46
US-PATENT-CLASS-435-818
US-PATENT-5,153,133
N93-11056* c 76 INT-PATENT-CLASS-H01L-29/205
INT-PATENT-CLASS-H01L-31/10
NASA-CASE-NPO-17880-1-CU
US-PATENT-APPL-SN-651882
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-4
US-PATENT-5,132,763
N93-11057* c 09 . INT-PATENT-CLASS-G01N-25/72
NASA-CASE-LAR-13508-3-CU
US-PATENT-APPL-SN-146939
US-PATENT-APPL-SN-524108
US-PATENT-APPL-SN-768094
US-PATENT-CLASS-374-4
US-PATENT-CLASS-374-5
US-PATENT-CLASS-374-57
US-PATENT-CLASS-73-147
US-PATENT-5,131,758
N93-11058* c 74 . INT-PATENT-CLASS-G01B-11/02
NASA-CASE-LEW-14996-1
US-PATENT-APPL-SN-703435
US-PATENT-CLASS-356-356
US-PATENT-CLASS-356-360
US-PATENT-CLASS-356-376
US-PATENT-CLASS-364-575
US-PATENT-CLASS-382-26
US-PATENT-5,146,293
N93-11059* c 27 .. INT-PATENT-CLASS-C08L-79/08
NASA-CASE-LAR-13925-2
US-PATENT-APPL-SN-301925
US-PATENT-APPL-SN-665371
US-PATENT-CLASS-525-422
US-PATENT-CLASS-525-432
US-PATENT-CLASS-525-903
US-PATENT-5,149,746
N93-11172* # c 34 ..... NAS 1.71:LEW-15218-1
NASA-CASE-LEW-15218-1
US-PATENT-APPL-SN-889003
N93-11174* # c 63 ..... NAS 1.71:NPO-18579-1-CU
NASA-CASE-NPO-18579-1-CU
US-PATENT-APPL-SN-937335
N93-11177* # c 37 ..... NAS 1.71:NPO-18584-1-CU
NASA-CASE-NPO-18584-1-CU
US-PATENT-APPL-SN-921192
N93-11456* # c 33 ..... NAS 1.71:NPO-18343-1-CU
NASA-CASE-NPO-18343-1-CU
US-PATENT-APPL-SN-942491
N93-11543* # c 24 ..... NAS 1.71:LEW-15263-1
NASA-CASE-LEW-15263-1
US-PATENT-APPL-SN-892054
N93-11664* # c 61 ..... NAS 1.71:NPO-18771-1-CU
NASA-CASE-NPO-18771-1-CU
US-PATENT-APPL-SN-942500
N93-11876* # c 02 ..... NAS 1.71:LAR-14470-1
NASA-CASE-LAR-14470-1
US-PATENT-APPL-SN-823809
N93-11912* # c 27 ..... NAS 1.71:LAR-14448-1
NASA-CASE-LAR-14448-1
US-PATENT-APPL-SN-912960
N93-12202* # c 31 ..... NAS 1.71:NPO-18817-1-CU
NASA-CASE-NPO-18817-1-CU
US-PATENT-APPL-SN-942499
N93-12203* # c 37 ..... NAS 1.71:LEW-14906-1
NASA-CASE-LEW-14906-1
US-PATENT-APPL-SN-889572
N93-12204* # c 38 ..... NAS 1.71:LAR-14581-1-SB
NASA-CASE-LAR-14581-1-SB
US-PATENT-APPL-SN-873407
N93-12205* # c 35 ..... NAS 1.71:LAR-14776-1
NASA-CASE-LAR-14776-1
US-PATENT-APPL-SN-928865
N93-12327* # c 37 ..... NAS 1.71:LEW-15345-1
NASA-CASE-LEW-15345-1
US-PATENT-APPL-SN-884980
N93-13416* c 24 .... INT-PATENT-CLASS-C08J-5/08
INT-PATENT-CLASS-C08L-49/08
NASA-CASE-LAR-14338-1
US-PATENT-APPL-SN-429514
US-PATENT-CLASS-525-421
US-PATENT-CLASS-525-426
US-PATENT-CLASS-525-432
US-PATENT-CLASS-525-436
US-PATENT-CLASS-525-903
US-PATENT-5,159,029
N93-13417* c 37 .... INT-PATENT-CLASS-N66L-1/66
NASA-CASE-MSC-21730-1
US-PATENT-APPL-SN-660755
US-PATENT-CLASS-294-89
US-PATENT-CLASS-294-94
US-PATENT-5,158,331
N93-13418* c 36 .... INT-PATENT-CLASS-H01S-3/19
NASA-CASE-NPO-18243-1-CU
US-PATENT-APPL-SN-710424
US-PATENT-CLASS-372-45
US-PATENT-CLASS-372-46
US-PATENT-5,159,603
N93-13419* c 74 . INT-PATENT-CLASS-G01N-21/27
INT-PATENT-CLASS-G02B-5/20
NASA-CASE-NPO-18317-1-CU
US-PATENT-APPL-SN-744197
US-PATENT-CLASS-250-339
US-PATENT-CLASS-356-328
US-PATENT-CLASS-357-30
US-PATENT-CLASS-359-859
US-PATENT-5,159,199
N93-13420* c 39 . INT-PATENT-CLASS-G05D-15/01
INT-PATENT-CLASS-G05D-19/01
NASA-CASE-LAR-14508-1-CU
US-PATENT-APPL-SN-664194
US-PATENT-CLASS-248-550
US-PATENT-CLASS-318-648
US-PATENT-CLASS-318-649
US-PATENT-CLASS-73-579
US-PATENT-CLASS-73-668
US-PATENT-5,156,370
N93-13421* c 71 . INT-PATENT-CLASS-G01N-29/00
INT-PATENT-CLASS-G01N-29/22
NASA-CASE-NPO-18155-1-CU
US-PATENT-APPL-SN-658477
US-PATENT-CLASS-73-24.01
US-PATENT-CLASS-73-24.05
US-PATENT-CLASS-73-24.06
US-PATENT-5,159,843
N93-13422* c 31 .... INT-PATENT-CLASS-F25B-1/00
NASA-CASE-NPO-18366-1-CU
US-PATENT-APPL-SN-781520
US-PATENT-CLASS-62-335
US-PATENT-CLASS-62-434
US-PATENT-CLASS-62-467
US-PATENT-5,157,938
N93-13423* c 37 .. INT-PATENT-CLASS-F16B-37/08
INT-PATENT-CLASS-F16B-39/36
NASA-CASE-MSC-21935-1
US-PATENT-APPL-SN-882408
US-PATENT-CLASS-411-267
US-PATENT-CLASS-411-433
US-PATENT-CLASS-411-909
US-PATENT-5,160,233
N93-13711* c 74 ... INT-PATENT-CLASS-H04N-5/74
INT-PATENT-CLASS-H04N-9/31
NASA-CASE-NPO-16932-2-CU
US-PATENT-APPL-SN-632408
US-PATENT-APPL-SN-913433
US-PATENT-CLASS-358-231
US-PATENT-CLASS-358-232
US-PATENT-CLASS-358-61
US-PATENT-5,161,027
N93-14404* # c 74 ..... NAS 1.71:NPO-18521-1-CU
NASA-CASE-NPO-18521-1-CU
US-PATENT-APPL-SN-934078
N93-14700* c 24 ..... NASA-CASE-NPO-17858-1-CU
US-PATENT-APPL-SN-503487
US-PATENT-CLASS-428-105
US-PATENT-CLASS-428-179
US-PATENT-CLASS-428-182
US-PATENT-CLASS-428-184
US-PATENT-CLASS-428-185
US-PATENT-CLASS-428-186
US-PATENT-CLASS-428-213
US-PATENT-5,162,143
N93-14701* c 63 . INT-PATENT-CLASS-G08B-13/26
INT-PATENT-CLASS-G08C-19/10
NASA-CASE-GSC-13377-1
US-PATENT-APPL-SN-710845
US-PATENT-CLASS-324-687
US-PATENT-CLASS-340-562
US-PATENT-CLASS-340-870.37
US-PATENT-5,166,679
N93-14702* c 37 . INT-PATENT-CLASS-B65D-39/12
INT-PATENT-CLASS-F02K-9/96
NASA-CASE-MSC-21898-1
US-PATENT-APPL-SN-780512
US-PATENT-CLASS-60-223
US-PATENT-CLASS-60-259
US-PATENT-CLASS-60-271
US-PATENT-CLASS-60-39.091
US-PATENT-5,165,229
N93-14703* c 36 .... INT-PATENT-CLASS-H01S-3/19
NASA-CASE-NPO-17763-1-CU
US-PATENT-APPL-SN-782009
US-PATENT-CLASS-372-108
US-PATENT-CLASS-372-20
US-PATENT-CLASS-372-96
US-PATENT-5,164,956
N93-14704* c 60 . INT-PATENT-CLASS-G11C-11/15
NASA-CASE-NPO-17954-1-CU
US-PATENT-APPL-SN-545019
US-PATENT-CLASS-365-158
US-PATENT-CLASS-365-173
US-PATENT-5,173,873
N93-14705* c 26 . INT-PATENT-CLASS-G01B-33/12
INT-PATENT-CLASS-G01B-7/24
NASA-CASE-LAR-14239-1
US-PATENT-APPL-SN-555864
US-PATENT-CLASS-324-209
US-PATENT-CLASS-324-227
US-PATENT-CLASS-324-232
US-PATENT-CLASS-73-598
US-PATENT-CLASS-73-801
US-PATENT-5,164-669
N93-14706* c 24 .... INT-PATENT-CLASS-B05D-1/02
INT-PATENT-CLASS-B05D-3/12
NASA-CASE-LEW-15020-2
US-PATENT-APPL-SN-601957
US-PATENT-APPL-SN-708255
US-PATENT-CLASS-427-367
US-PATENT-CLASS-427-404
US-PATENT-CLASS-427-419.2
US-PATENT-CLASS-427-456
US-PATENT-5,169,674
N93-14707* c 76 .... INT-PATENT-CLASS-B01D-9/02
NASA-CASE-MFS-28473-1
US-PATENT-APPL-SN-717447
US-PATENT-CLASS-156-DIG.62
US-PATENT-CLASS-23-295R
US-PATENT-CLASS-23-300
US-PATENT-5,173,087
N93-14708* c 52 . INT-PATENT-CLASS-B62D-51/04
NASA-CASE-GSC-13348-2
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The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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NASA Case Number Prefix Letters	Address of Cognizant NASA Patent Counsel
ARC-xxxxx XAR-xxxxx	Ames Research Center Mail Code: 200-11A Moffett Field, California 94035 Telephone: (415) 694-5104
ERC-xxxxx XER-xxxxx HQN-xxxxx XHQ-xxxxx	NASA Headquarters Mail Code: GP Washington, DC 20546 Telephone: (202) 358-2066
GSC-xxxxx XGS-xxxxx	Goddard Space Flight Center Mail Code: 204 Greenbelt, Maryland 20771 Telephone: (301) 286-7351
KSC-xxxxx XKS-xxxxx	John F. Kennedy Space Center Mail Code: PT-PAT Kennedy Space Center, Florida 32899 Telephone: (305) 867-2544
LAR-xxxxx XLA-xxxxx	Langley Research Center Mail Code: 279 Hampton, Virginia 23365 Telephone: (804) 865-3725
LEW-xxxxx XLE-xxxxx	Lewis Research Center Mail Code: 500-318 21000 Brookpark Road Cleveland, Ohio 44135 Telephone: (216) 433-5753
MSC-xxxxx XMS-xxxxx	Lyndon B. Johnson Space Center Mail Code: AL3 Houston, Texas 77058 Telephone: (713) 483-4871
MFS-xxxxx XMF-xxxxx	George C. Marshall Space Flight Center Mail Code: CC01 Huntsville, Alabama 35812 Telephone: (205) 544-0024
NPO-xxxxx XNP-xxxxx FRC-xxxxx XFR-xxxxx WOO-xxxxx	NASA Resident Legal Office Mail Code: 180-801 4800 Oak Grove Drive Pasadena, California 91103 Telephone: (818) 354-2700

PATENT LICENSING REGULATIONS

ATIONAL AERONAUTICS AND SPACE ADMINISTRATION

4 CFR Part 1245

icensing of NASA Inventions

GENCY: National Aeronautics and Space Administration
CTION: Interim regulation with comments requested.

UMMARY: The National Aeronautics and Space Administration (NASA) is evising its patent licensing regulations to conform with Pub. L. 96-517. This nterim regulation provides policies and procedures applicable to the licensing f federally owned inventions in the custody of the National Aeronautics and pace Administration, and implements Pub. L. 96-517. The object of this subpart to use the patent system to promote the utilization of inventions arising from ASA supported research and development.

FFECTIVE DATE: July 1, 1981. Comments must be received in writing by ecember 2, 1981. Unless a notice is published in the **Federal Register** after ne comment period indicating changes to be made, this interim regulation hall become a final regulation.

DDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Vashington, D.C. 20546

OR FURTHER INFORMATION CONTACT:
Ir. John G. Mannix, (202) 755-3954.

UPPLEMENTARY INFORMATION:

ART 1245—PATENTS AND OTHER INTELLECTUAL ROPERTY RIGHTS

ubpart 2 of Part 1245 is revised to read as follows:

* * * * *

ubpart 2—Licensing of NASA Inventions

ec.
245.200 Scope of subpart.
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uthority: 35 U.S.C. Section 207 and 208.94 Stat 3023 and 3024.

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ubpart 2—Licensing of NASA Inventions

1245.200 Scope of subpart.

his subpart prescribes the terms, conditions and procedures upon which a ASA invention may be licensed. It does not affect licenses which (a) were in ffect prior to July 1, 1981; (b) may exist at the time of the Government's cquisition of title to the invention, including those resulting from the allocation f rights to inventions made under Government research and development ontracts; (c) are the result of an authorized exchange of rights in the settlement f patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the **Federal Register;** or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the **Federal Register,** providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of nay written objections received during the period, NASA has determined that:

(*1*) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilizaiton by the public;

(*2*) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(*3*) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(*4*) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(*i*) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the **Federal Register,** providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the **Federal Register** in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

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Section 2: Indexes

16. Abstract

A subject index is provided for over 5400 patents and patent applications for the period May 1969 through June 1993. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.

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