NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES
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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 154 citations published in this issue of the Abstract Section cover the period January 1991 through June 1991. The Index Section references over 5000 citations covering the period May 1969 through June 1991.

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.
A method for collection of fecal matter designed to operate efficiently in a zero gravity environment was invented. The system consists of a waste collection area within a body having a seat opening. Low pressure within the waste collection area directs fecal matter away from the user's buttocks and prevents the escape of waste gases. The user actuates a piston covered with an absorbent pad that sweeps through the waste collection area to collect fecal matter, scrub the waste collector area, press the waste against an end of the waste collection area and retracts, leaving the used pad. Multiple pads are provided on the piston to accommodate multiple usages. Also a valve allows air to be drawn through the body, which keeps the valve from becoming plugged with the feces. A sheet feeder feeds fresh sheets of absorbent pads to a face of the piston with each actuation.

Official Gazette of the U.S. Patent and Trademark Office
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 circuitry; 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 cerments; 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 Spacecraft 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.

**N.A.**—no abstracts were assigned to this category for this issue.
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/Systems 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
INVENTOR INDEX ............................................................. B-1
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Typical Subject Index Listing

SUBJECT HEADING

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<th>SUBJECT CATEGORY</th>
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<td>ABSORBENTS</td>
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<td>A</td>
<td>1</td>
<td>ABSORPTION</td>
<td>35</td>
</tr>
</tbody>
</table>

The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or notation of content (NOC), is included for each subject heading to index the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The case number serves as the prime access number to the patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The accession number denotes the number by which the citation is identified under the subject category.
ACTUATOR DISKS
Cryogenic gyroscope housing — with annular disks for gas supply
[NASA-CASE-MFS-21360-1] c 37 N7-18322
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-12785-1] c 70 N90-17403
Fluid-flow reaction system
[NASA-CASE-XMF-17290-1-CU] c 34 N90-26292
Multi-fingered robotic hand
ADAPTATION
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-LEW-23169-1] c 26 N81-16209
Refractory coatings
[NASA-CASE-LAR-13169-2] c 26 N82-30071
Method of inserting predesigned diabond areas into composite laminates
[NASA-CASE-LEW-13169-1] c 24 N90-25197
ADAPTIVE TESTS
Apparatus for the determination of the existence or non-existence of a bonding between two members
[NASA-CASE-MFS-13566-1] c 15 N71-18132
ADHESIVE BONDING
Solar cell mounting Patent
[NASA-CASE-XMF-00400] c 03 N70-39898
Fixed axis mount Patent
[NASA-CASE-MFS-20249] c 15 N72-11386
ADHESIVES
ADJUSTING
Rapid, quantitative determination of bacteria in water — adhesive trap microorganisms
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION
Stud-bonding gun
[NASA-CASE-MFS-20249] c 15 N72-11392
Improved refractory coatings — sputtered coatings on substrates that form refractory compounds
[NASA-CASE-LEW-23169-1] c 26 N81-16209
Refractory coatings
[NASA-CASE-LAR-13169-2] c 26 N82-30071
Method of inserting predesigned diabond areas into composite laminates
[NASA-CASE-LEW-13169-1] c 24 N90-25197

ADHESIVE MEMBRANE
In situ chemical bonding
[NASA-CASE-LAR-13225-1] c 27 N90-3175

ADJUSTABLE
Instrument support with precise lateral adjustment
Patent
[NASA-CASE-XMF-00400] c 14 N70-39898
Fixed axis mount
[NASA-CASE-MFS-20249] c 15 N72-11386

ADJUSTMENT
Instrument support with precise lateral adjustment
Patent
[NASA-CASE-XMF-00400] c 14 N70-39898
Fixed axis mount
[NASA-CASE-MFS-20249] c 15 N72-11386
SUBJECT INDEX

[A NASA-CASE-LAR-10323-1] c 12 N71-17573

[A-13]

[A-13]
A method and technique for installing light-weight fragile, high-speed rolling element bearings (NASA-CASE-NGT-03007-1)
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Component without using multiple tethers

Objects in predetermined space relationship

Containerless processing

Retrodirective antenna array

Flared tube antenna

Antenna

Mechanism therefor

Pair

Chambers

Multiple reflection conical microwave antenna

Spine immobilization apparatus

Restraining mechanism

Structural panels

Foldable construction block

Foldable construction block

Ionospheric battery

Continuous wave lasers

Contamination

Containment

Continuous wave radar

Contour sensors

CONTINUOUS WAVE LASERS

CONTAMINATION

CONTAINMENT

CONTINUUM FLOW
DISTANCE MEASUREMENT EQUIPMENT

Binary coded sequence -- acquisition ranging system

[NASA-CASE-NPO-11194] c 08 N72-2509

Determining distance to lightning strokes from a single station


Terminal guidance and tracking system -- space shuttle coupling to orbiting satellites

[NASA-CASE-NPO-14521-1] c 37 N81-2751

Display system for measuring distance

[NASA-CASE-GSC-10009-2] c 36 N83-2691

Rotary target V-block

[NASA-CASE-GSC-12001-3] c 35 N84-16523

Method and apparatus for measuring distance

[NASA-CASE-MSC-20912-1] c 32 N86-2568

[DISTRIBUTION] (NASA-CASE-MSC-1848-1) c 35 N90-10415

DISTILLATION EQUIPMENT

Compact solar still Patent

[NASA-CASE-XMS-04533] c 15 N71-2306

Method and apparatus for distillation of liquids Patent

[NASA-CASE-XNP-08124-1] c 06 N73-13129

DISTILLED AMPLIFIERS

Cascaded complementary pair broadband transistor amplifiers Patent

[NASA-CASE-NPO-10003] c 10 N71-2641

DISTRIBUTED PROCESSING

Distributed multiprocessor memory architecture

[NASA-CASE-PRC-11414-1] c 60 N83-32342

Dynamic resource allocation scheme for distributed heterogeneous computer systems

[NASA-CASE-NPO-17191-1] C 62 N89-29976

Real-time simulation clock

[NASA-CASE-ARC-12465-1] c 35 N90-23713

Method of up-front load balancing for local memory parallel processors

[NASA-CASE-MSC-1348-1] c 62 N91-14769

Distributed computing system with dual independent communications paths between computers and employing split token


DISTRIBUTION (PROPERTY)

Thermoelectric amplifiers

[NASA-CASE-LEW-12443-1] c 44 N83-31275

DISTRIBUTORS

High voltage distributor

[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES

Aircraft liftmeter

[NASA-CASE-NPO-11409-1] c 06 N71-19932

Lithium counterdoped silicon solar cell

[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOCTOR 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-MSC-20836] c 21 N71-29122

Doppler compensation by shifting transmitted object frequency within limits

[NASA-CASE-GSC-12607-1] c 07 N73-20174

Doppler shift system -- system for measuring velocities of radiating particles

[NASA-CASE-LEW-1740-1] c 72 N74-19310

Method and apparatus for Doppler frequency modulation of radiation

[NASA-CASE-NPO-14524-1] c 32 N80-24510

Swee memchnism for Doppler shift compensation in optical correlator for synthetic aperture radar

[NASA-CASE-NPO-14989-1] c 32 N83-18975
Basic electrical and electronic components and systems for vehicles and spacecraft.
ELECTRICAL RESISTANCE

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PATENT

The patent text is not visible in the image.
ELECTROMAGNETIC SHIELDING

Electromagnetic drive for interferometers and the like

Electromechanical transducers

Electromagnetic transducers

Electromagnetic devices

Electromagnetic mirror drive system

Electromagnets

Electromechanical devices

ELECTRON BEAM WELDING

Split welding chamber Patent

Electron beam switching commutator Patent

Electron beam controller — using magnetic field to refocus spent electron beam in microwave oscillator tube

Electron beam commutator system Patent

Low energy electron magnetometer using a monoelectronic electron beam

Generation of intense negative ion beams

ELECTRON MICROSCOPES

Triode thermionic energy converter

Electron microscope system

Triode thermionic energy converter

Electromagnetic devices

Electromagnetic drive for interferometers and the like

Electromechanical devices

ELECTRON SCATTERING

Trophical analysis of scattered electrons in an merged electron-ion beam geometry

Electron-scattered analysis of an electron beam in forward direction

ELECTRON SOURCES

Triode thermionic energy converter

Electron-scattered analysis of a merged electron beam in forward direction

Doped Josephson tunnel junction (for use in a sensitive IR detector)

Three-phase power factor controller with induced EMF sensitization

Electromagnetic transmission process for the purification of molten silicon during crystal growth

ELECTROMIGRATION

Three-phase power factor controller

ELECTROMETERS

Induction heating gun

Electron gun

Sporadic variation in an electron beam excitation system

ELECTRON PHOTO CASCADES

Electromagnetic field detecting device

Electron photomultiplier

ELECTRON PHOTON CASCADES

Subject index

Electromagnetic drive for interferometers and the like

Electromechanical transducers

Electromagnetic transducers

Electromagnetic devices

Electromagnetic mirror drive system

Electromagnets

Electromechanical devices

ELECTRON BEAM WELDING

Split welding chamber Patent

Electron beam switching commutator Patent

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Sporadic variation in an electron beam excitation system

ELECTRON PHOTO CASCADES

Electromagnetic field detecting device

Electron photomultiplier

ELECTRON PHOTON CASCADES

Subject index

Hyperthermia heating apparatus — cancer therapy

Polarization of light by a function of the mechanical Q of the vibrating element Patent

Polarization of light by a function of the mechanical Q of the vibrating element Patent

Electromagnetic wave filters

Electromagnetic wave transmission

Electromagnetic shielding

ELECTROMAGNETISM

Electromagnetic wave filters

Electromagnetic wave transmission

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors

Electromagnetic shielding

ELECTROMAGNETIC WAVE FILTERS

Electromagnetic wave filters

Electromagnetic wave transmission

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors

Electromagnetic shielding

ELECTROMAGNETIC SHIELDING
ENGLISH CONTROL

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 05 N77-18154
Self-stabilizing sonic inlet
[NASA-CASE-LEW-11880-1] c 05 N79-24976

ENGINE MONITORING INSTRUMENTS
System for monitoring the presence of neutrals in a stream of low 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 N9-23456

ENGINE NOISE
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variably thinned nozzles for quiet turbopump engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Fabricure tone elimination strut assembly -- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Optical combustion turbine jet engine
[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-silurium/amidinate coating -- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13341-1] c 27 N82-29441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N89-23378
Composite piston
[NASA-CASE-LEW-12334-1] c 37 N89-23981

ENGINE STARTERS
Portable device for use in starting air-start-units for aircraft and marine diesel testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-36599

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 N71-12127

ENVIRONMENTAL CONTROL

ENVIRONMENTAL EXPOSURE

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FLUID AMPLIFIERS

Technique for measuring gas conversion factors
[NASA-CASE-LAR-13205-1] c 34 N82-12547
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28039-1] c 35 N82-25752
Fluid flow meter using fluid squeeze sensors
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

FLUID FILMS

Jet fluid amplifier Patent
[NASA-CASE-XLE-03512] c 12 N69-21466
Multiway vortex valve system Patent
[NASA-CASE-XNP-04700] c 12 N71-15609
Shear-modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-15758
Conical valve plug Patent
[NASA-CASE-MFS-06101] c 12 N71-15758
Fluid pressure amplifier and system
[NASA-CASE-LAR-10704-1] c 28 N73-13773
Fluid pressure system - for liquid propellant rocket engines
[NASA-CASE-XMF-05941-1] c 20 N79-21124

FLUID DYNAMICS

Degassing and mixing apparatus for liquids — portable water for spacecraft
[NASA-CASE-MSC-19893-1] 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-14596-1-C] c 31 N83-31866

FLUID FILMS

Journal bearings — for lubricant films
[NASA-CASE-LAR-11070-1] c 37 N74-21061
Journal bearing
[NASA-CASE-LAR-11070-4] c 37 N76-15461
Fluid motion
[NASA-CASE-LAR-11676-1] c 37 N76-22541

FLUID FILTERS

Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01482] c 05 N76-41297

FLUID FLOW

Air removal device — life support systems
[NASA-CASE-XNP-00732] c 28 N76-41447
Water separating system Patent
[NASA-CASE-XMC-14279] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22233-1] c 34 N76-14463
Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16864-1-C] c 34 N79-24285
Air removal device — life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Bioreactor for monitoring and processing bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1-CU] c 51 N83-27569

FLUID JET AMPLIFIERS

Conical valve plug Patent
[NASA-CASE-XNP-00732] c 28 N76-41447
Fluid valve assembly
[NASA-CASE-XMC-14279] c 34 N75-33342
Fluid pressure amplifier and system
[NASA-CASE-LAR-10704-1] c 28 N73-13773

FLUID JETS

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MSC-28217-1] c 34 N89-14392

FLUID LOGIC

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MSC-28217-1] c 34 N89-14392

FLUID MANAGEMENT

Shear modulated fluid amplifier Patent
[NASA-CASE-XLE-03512] c 12 N69-21466

FLUID MECHANICS

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MSC-28217-1] c 34 N89-14392

FLUID PRESSURE

Positive isolation disconnect
[NASA-CASE-LEW-07363-2] c 35 N78-27700

FLUID TRANSMISSION LINES

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MSC-28217-1] c 34 N89-14392

FLUID TRANSMISSION LINES

Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573

FLUID TRANSMISSION LINES

Patent
[NASA-CASE-XLE-02351-1] c 35 N72-24740

HEAT MEASUREMENT
Thermal detector of electromagnetic energy by means of a vibrating electrode
[NASA-CASE-XAG-10766] c 09 N71-18830
Specific wavelength colorimeter — for measuring given solution concentration
[NASA-CASE-MSC-14081-1] c 35 N74-27860
Method and device for determining heats of combustion of gaseous hydrocarbons
HEAT OF COMBUSTION
Method and device for determining heats of combustion of gaseous hydrocarbons
HEAT OF VAPORIZATION
Pump—two phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N78-2250
HEAT FLUX
Heat flux sensor assembly
[NASA-CASE-XMS-05099] c 14 N69-27459
Heat flux measurement system Patent
[NASA-CASE-MFS-28217-1] c 34 N69-14035
Prebowed bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-20770
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18031-1] c 44 N91-13796
HEAT RADIATORS
Capillary radiator Patent
[NASA-CASE-XAG-10037] c 33 N71-14055
Radiant deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Space vehicle thermal rejection system
[NASA-CASE-LAR-13730-1] c 34 N90-23033
Convergent heat pipe pump
[NASA-CASE-LAR-13731-1] c 34 N90-23033
Convergent heat pipe pump
[NASA-CASE-MSC-11399-1] c 27 N80-25341
HEAT RESISTANT ALLOYS
High-temperature nickel-base alloy Patent
[NASA-CASE-XAG-11007] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XAG-00283] c 17 N70-36816
High temperature superalloy Patent
[NASA-CASE-XAG-11389] c 17 N70-16052
Brazing alloy Patent
[NASA-CASE-XAG-11390] c 17 N70-16052
Method of forming superalloys
[NASA-CASE-LAR-10853-1] c 15 N73-13465
Method of making pressure tight super alloys
[NASA-CASE-LAR-11071-1] c 37 N74-11301
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LAR-10853-1] c 17 N70-33283
Method of forming superalloys
[NASA-CASE-LAR-10853-1] c 15 N73-13465
High-temperature superalloy Patent
[NASA-CASE-LAR-11071-1] c 37 N74-11301
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LAR-10853-1] c 17 N70-33283
Method of forming superalloys
[NASA-CASE-LAR-10853-1] c 15 N73-13465
HELMET MOUNTED DISPLAYS

HERMETIC SEALS

HELIUM IONS

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HERMETICALLY SEALED ELECTRONIC DEVICES

HELMET MOUNTED DISPLAYS

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HELIUM HYDROGEN ATMOSPHERES

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HERMETICALLY SEALED ELECTRONIC DEVICES
All-optical photographic spatial light modulators based on photoinduced electron transfer in rigid matrices

【NASA-CASE-NPC-17612-1-CU】 c 74 N90-27487

Control system for ruing blazed, aberration corrected diffraction gratings

【NASA-CASE-GSC-13240-1】 c 35 N91-13692

Real-time dynamic holographic image storage device

【NASA-CASE-LAR-13680-1】 c 35 N91-13694

HOMING DEVICES
Location and navigation system

【NASA-CASE-ERC-10224】 c 07 N72-25173

HONEYCOMB CORES
Method of forming inflatable honeycomb Patent

【NASA-CASE-XLA-02349】 c 15 N71-22713

Method of forming shapes from planar sheets of thermosetting materials

【NASA-CASE-NPO-11036】 c 15 N72-25452

Honeycomb core structures of minimal surface tube sections

【NASA-CASE-ERC-10636】 c 18 N72-25541

HONEYCOMB STRUCTURES
Method for making a heat insulating and ablative structure

【NASA-CASE-XMS-01106】 c 15 N69-24322

Inflatable honeycomb Patent

【NASA-CASE-XLA-00204】 c 32 N70-36539

Fluid flow control valve Patent

【NASA-CASE-XLE-00703】 c 15 N71-15987

Method and apparatus for making a heat insulating and ablative structure

【NASA-CASE-XMS-00209】 c 20 N71-20034

Honeycomb panel and method of making same Patent

【NASA-CASE-XMF-04002】 c 18 N71-21651

Cryogenic thermal insulation Patent

【NASA-CASE-XMF-05043】 c 20 N71-28892

Honeycomb panels formed of minimal surface periodic tube layers

【NASA-CASE-ERC-10364】 c 18 N72-25540

Structural or repairing parts

【NASA-CASE-MSC-12557】 c 15 N73-12489

Inert facing tool — manually operated cutting tool for forming slots in honeycomb material

【NASA-CASE-MFS-21485-1】 c 37 N74-25968

Vacuum pressure molding technique

【NASA-CASE-LAR-10971-1】 c 26 N76-24575

Honeycomb-laminate composite structure of Patent

【NASA-CASE-ARC-10913-1】 c 24 N78-15180

Method of making a composite sandwich laminate structure

【NASA-CASE-LAR-11898-2】 c 24 N78-17149

Low density bismaleimide-carbon microballoon composites

【NASA-CASE-ARC-11040-1】 c 24 N79-16015

Ceramic honeycomb structures and the method thereof

【NASA-CASE-ARC-11652-1】 c 27 N78-23737

HOOKS
Two fold tolerant toggle-hook release

【NASA-CASE-MSC-26217-1】 c 37 N81-13723

HOOP COLUMN ANTENNAS
Latching mechanism for deployable/re-stowable columns used in satellite deployment

【NASA-CASE-LAR-12169-1】 c 17 N66-25791

Antenna surface contour control system

【NASA-CASE-LAR-12786-1】 c 32 N79-25363

HOPPERS
Energy efficient continuous flow ash lockhopper

【NASA-CASE-NPO-18819-1-CU】 c 31 N81-15423

HORIZON SCANNERS
Electromagnetic mirror drive system

【NASA-CASE-XLA-03724】 c 14 N58-27461

Multi-beam scan horizon sensor Patent

【NASA-CASE-XMS-XG-00805】 c 21 N70-36547

Attitude, orientation of a highly stabilized space vehicles

【NASA-CASE-XMG-00201】 c 21 N70-36943

Amplifier clamping circuit for horizon scanner Patent

【NASA-CASE-XGS-01784】 c 10 N71-20782

Horizon scanner Patent with a plurality of finely positioned radiation compensated radiation sensitive detectors

【NASA-CASE-XNP-06221】 c 17 N71-21088

Infrared horizon locator

【NASA-CASE-LAR-10726-1】 c 14 N73-20475

HORIZONTAL CURVATURE LANDING
Variable-frequency varied reentry vehicle Patent

【NASA-CASE-XLA-02241】 c 31 N70-37086

HORIZONTAL TAIL SURFACES
Translating horizontal tail Patent

【NASA-CASE-XLA-08801-1】 c 02 N71-11043

HORN ANTENNAS
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 N71-12966

Dual mode horn antenna Patent

【NASA-CASE-ERC-10901】 c 07 N71-15907

Multipurpose antenna employing dish reflector with plural coaxial horn feeds

【NASA-CASE-XLE-10402-1】 c 32 N78-25324

Dual band horn antenna

【NASA-CASE-NPO-14519-1】 c 32 N80-23524

Collapsible corrugated horn antenna

【NASA-CASE-LAR-11121-1】 c 32 N80-29535

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

HOT CATHODES
Ion thruster cathode

【NASA-CASE-XLE-00878】 c 06 N69-39868

HOT CORROSION
Catalytic hot corrosion resistant alloy

【NASA-CASE-LEW-14134-1】 c 26 N88-14303

HOT DEFORMATION ALLOYS
One step HIP canning of powder metallurgy composites

【NASA-CASE-NPO-17141-1】 c 24 N90-23493

Process for HIP canning of composites

【NASA-CASE-LAR-14999-1-CU】 c 24 N91-17145

HOT PRESSING
Method of making a cement Patent

【NASA-CASE-LAR-10291-1】 c 18 N71-28729

Holding fixture for a hot stamping press

【NASA-CASE-GSC-12619-1】 c 37 N84-12491

HOT WORKING
Method for forming plastic materials Patent

【NASA-CASE-XMS-05516】 c 15 N71-17803

HOT-FILM ANEMOMETERS
Crossflow velocity 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-13876-1】 c 76 N90-24166

HOT-WIRE ANEMOMETERS
Metallic hot wire anemometer — for high speed wind tunnel tests

【NASA-CASE-ARC-10911-1】 c 35 N77-20400

Method for making a hot wire anemometer and product thereof

【NASA-CASE-LAR-10900-1】 c 35 N77-24454

HOT-WIRE LEVELMETERS
Hot wire liquid level detector for cryogenic fluids Patent

【NASA-CASE-XLE-00454】 c 23 N71-17802

Flow separation point

【NASA-CASE-LAR-11046-1】 c 35 N78-14364

Hot foil transducer skin friction sensor

【NASA-CASE-LAR-12351-1】 c 35 N82-24470

HOUSINGS
Seated cabinetry Patent

【NASA-CASE-MSC-12169-1】 c 09 N71-18600

Open type urine receptacle

【NASA-CASE-MSC-12304-1】 c 05 N72-20093

Universal environment package with sectional component Patent

【NASA-CASE-KSC-10003】 c 15 N72-22486

Gas flow control device

【NASA-CASE-MSC-20910-1】 c 15 N73-13452

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-11264】 c 07 N72-25363

Deformable bearing seat

【NASA-CASE-NPO-14022-1】 c 32 N78-31321

Heat transfer device

【NASA-CASE-MSC-20910-1】 c 37 N87-25582

Reflex feed system for dual frequency antenna with frequency cutoff means

【NASA-CASE-MSC-22517-1】 c 35 N76-18402

Conical horn feed having overlapping apertures Patent

【NASA-CASE-XLA-00889】 c 32 N78-25324

Selectively tuning spin chutes system

【NASA-CASE-LAR-14322-1】 c 02 N91-15138

Rolling friction robot fingers

【NASA-CASE-GSC-12619-1】 c 37 N81-17401

MOVING
Gravity stabilized flying vehicle Patent

【NASA-CASE-MSC-12111-1】 c 02 N71-11039

SUBJECT INDEX
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-ARC-12550-1] c 52 N82-29860

IMPOSITION
Hypervelocity gun Patent
[NASA-CASE-ARC-05902] c 11 N71-18578

IMPREGNATION
Composite laminate method
[NASA-CASE-ARC-12015-1] c 24 N76-17150
Insoluble polyethylene and ion-exchange hollow fiber
impregnated therewith
High temperature silicon carbide impregnated insulating
fabrics
[NASA-CASE-MSC-16832-1] c 27 N83-16908
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14499-1] c 24 N91-15334

IMPURITIES
Silicon material for solar cells
[NASA-CASE-MSC-12442-2] c 33 N90-20282
Reactor systems
[NASA-CASE-XGS-08121-1] c 09 N72-24526

IN-CRUSH DEFORMED THUNDER
High impact pressure regulator Patent
[NASA-CASE-NPO-14831-1] c 09 N77-26800

IN-CRUSH MACHINES
Low noise tuned amplifier
[NASA-CASE-ARC-12567-1] c 33 N84-22867
Power supply conditioning circuit
[NASA-CASE-NPO-17220-1-CU] c 33 N88-29905
Microstrip field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Noninvasive method and apparatus for monitoring the
curves of vacuum deposit materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

IN-DUCTANCE
Insoluble polyelectrolyte and ion-exchange hollow fiber
impregnated therewith
[NASA-CASE-MSC-16832-1] c 27 N83-16908
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14499-1] c 24 N91-15334
LIQUID SLOSHING

- Liquid SODIUM
- Liquid SLOSHING
- LIQUID-SOLID INTERFACES
- LIQUIDS

- Patent
- Method of making same

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- Patent
- Force measuring instrument

- [NASA-CASE-XNP-0234] c 20 N90-26305
- Force-balanced, throttle valve

- Patent
- Liquid metal impervious barrier

- [NASA-CASE-XMS-01624] C 15 N71-19569
- [NASA-CASE-XLA-05749] c 15 N71-19569
- [NASA-CASE-XNP-01747] c 15 N71-23024
- [NASA-CASE-XNP-00610] c 28 N70-36910

- Patent
- Load relieving device

- [NASA-CASE-XNP-01747] c 15 N71-23024
- [NASA-CASE-XNP-00610] c 28 N70-36910
- [NASA-CASE-XLA-01499] c 15 N71-19569
- [NASA-CASE-XLA-0405] c 15 N71-19569

- Patent
- Load bearing device

- [NASA-CASE-XNP-00610] c 28 N70-36910
- [NASA-CASE-XLA-01499] c 15 N71-19569
- [NASA-CASE-XLA-0405] c 15 N71-19569
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- Patent
- Force-balanced, throttle valve

- [NASA-CASE-XNP-01747] c 15 N71-23024
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[NASA CASE-LAR-15842-1] c 07 N74-31270
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[NASA CASE-LEW-12311-1] c 07 N76-17055
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Thermally controlled non-tracking type solar energy concentrator
- [NASA-CASE-MFS-13497-1] c 94 N76-14602

Solar photolysis of water
- [NASA-CASE-NPO-13857-1] c 94 N77-32580

Solar collector with tracking solar concentrator and method for making same
- [NASA-CASE-NPO-13736-1] c 94 N77-32583

Solar energy concentrator array and method
- [NASA-CASE-LAR-12009-1] c 94 N78-15500

Method for producing solar energy panels by automation
- [NASA-CASE-LEW-12541-1] c 94 N78-25529

Method for making an aluminium or copper substrate panel for selective absorption of solar energy
- [NASA-CASE-MFS-23518-1] c 94 N78-11469

Primary reflector for solar energy collection systems
- [NASA-CASE-NPO-13579-1] c 94 N78-14519

Method of construction of a multi-cell solar array
- [NASA-CASE-MFS-22962-1] c 94 N76-26455

Solar cell module
- [NASA-CASE-NPO-14467-1] c 94 N76-31753

Solar concentrator
- [NASA-CASE-NPO-15388-1] c 94 N76-24803

Saltless solar pond
- [NASA-CASE-NPO-15808-1] c 94 N76-34792

SOLAR ENERGY ABSORBERS

Panel for selectively absorbing solar thermal energy and the method of producing said panel
- [NASA-CASE-MFS-22562-1] c 94 N76-14955

Solar energy absorber
- [NASA-CASE-MFS-22744-1] c 94 N76-24956

Solar reflector
- [NASA-CASE-LEW-12587-1] c 94 N76-31601

Low cost solar energy collection system
- [NASA-CASE-RMS-13579-1] c 94 N76-17490

Electromagnetic radiation energy arrangement — coatings for solar energy absorption and infrared reflection

Aluminum or copper substrate panel for selective absorption of solar energy
- [NASA-CASE-MFS-23518-3] c 94 N80-16452

SOLAR ENERGY CONVERSION

Solar energy power system
- [NASA-CASE-MFS-21628-2] c 94 N76-23975

High velocity high current Schottky barrier solar cell
- [NASA-CASE-NPO-13482-1] c 94 N76-13526

Process for utilizing low-cost graphite substrates for polycrystalline solar cells

Solar photolysis of water, air and solar collector
- [NASA-CASE-NPO-14126-1] c 94 N79-11470

Solar concentrator
- [NASA-CASE-NPO-14058-1] c 94 N79-18443

Solar concentrator
- [NASA-CASE-NPO-14072-1] c 94 N78-14477

Copper doped polycrystalline silicon solar cell
- [NASA-CASE-NPO-14670-1] c 94 N81-19558

Solar energy control system — temperature measurement
- [NASA-CASE-MFS-25287-1] c 94 N82-18686

Solar engine
- [NASA-CASE-LAR-12148-1] c 94 N82-24640

Solar driven liquid metal MH power generator
- [NASA-CASE-LAR-12495-1] c 94 N83-28573

Thermochemical reaction electrodes
- [NASA-CASE-NPO-14548-1] c 94 N83-12262

Solar pumped laser
- [NASA-CASE-LAR-12870-1] c 94 N86-16452

Wind and solar powered turbine
- [NASA-CASE-NPO-14546-1] c 94 N86-20308

Solar energy converter using surface plasma waves
- [NASA-CASE-NPO-10231-1] c 94 N88-21768

Bidirectional control system for energy flow in solar powered flywheel
- [NASA-CASE-MFS-25078-1] c 94 N87-21410

SOLAR FLUX DENSITY

Solar energy modulator
- [NASA-CASE-NPO-15086-1] c 94 N88-22033

SOLAR FURNACES

High temperature lens construction Patent
- [NASA-CASE-XNP-04111] c 14 N71-15622
SONIC BOOMS
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11713-1] c 35 N75-19614
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] 07 N76-27232

SORBATES
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10889-1] c 35 N78-19455

SORPTION
Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

SORF COEFFICIENT
Method of growing composites of the type exhibiting the Sorf effect — improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22929-1] 24 N77-21767

SPATIONS
Two stage sorption type cryogenic refrigerator including reed gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

SOUND ATTENUATION APPARATUS
Acoustic agglomeration methods and apparatus
[NASA-CASE-XMF-00641] c 31 N70-36410

SOUND CHARGE
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

SOUND DEBRIS
Spacecraft spacecraft debris Patent
[NASA-CASE-MSC-21545-1] c 02 N95-32278

SOUND DESTRUCTION
Infrared detection apparatus
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

SOUND EQUIPMENT
Diaphragm for detecting sound wave source
[NASA-CASE-LAR-11095-1] c 35 N74-16135

SOUND GENERATORS
Cosmic dust sensor
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Acoustic suspension system
[NASA-CASE-XMF-00641] c 31 N70-36410
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

SOUND LOCALIZATION
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14154-1] c 71 N79-23753

SOUND PRESSURE
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11713-1] c 35 N75-19614
Instrumentation for acoustic suspension
[NASA-CASE-LAR-11713-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-XMF-21061-1] c 71 N78-14667

SOUND PROPAGATION
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N90-32535
Sound attenuation apparatus
[NASA-CASE-LAR-11986-1] c 71 N90-15710

SOUND RANGING
Echo tracker/line finder for radars and sonars
[NASA-CASE-NPO-14281-1] c 32 N82-22376

SOUND TRANSDUCERS
Method for detecting hydrogen gas
[NASA-CASE-NPO-14281-1] c 32 N82-22376
Cosmic dust sensor
[NASA-CASE-GSC-10059-1] c 14 N69-39733

SOUND TRANSMISSION
Instrumentation for air traffic control
[NASA-CASE-NPO-15459-1] c 71 N75-19614
Vibration-chamber-lab systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Sound attenuation apparatus
[NASA-CASE-LAR-11986-1] c 71 N90-15710

SOUND WAVES
Phonocardiograph transducer Patent
[NASA-CASE-NPO-10565-1] c 14 N71-29993
Material suspension within an acoustically excited resonant chamber — at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13800-1] c 12 N75-10873
Acoustic drive of a rotor
[NASA-CASE-NPO-14005-1] c 12 N75-20827
Acoustic bubble removal method
[NASA-CASE-NPO-15034-1] c 12 N75-20827
Acoustic ground hum device
[NASA-CASE-LAR-12299-1] c 35 N84-22933
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 12 N84-23233
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15686-1] c 12 N84-23233
Dual differential interferometer
[NASA-CASE-LAR-12996-1] c 35 N85-30282

A-158
Terminal guidance sensor system — space shuttle
coupling to orbiting satellites

Satellite guidance system

Apparatus for translator: ranging and second
object: ranging to determine relative position

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection

Augmentation for automated docking

Alignment flexibility and restraint

Assembly, berthing mechanism and utility connection

Micrometeoroid detector

Docking system for spacecraft

Automatic thermal switch — spacecraft applications

Docking system for spacecraft

Electrical self-aligning connector — orbital servicer

Docking system for spacecraft

Docking mechanism for spacecraft

Standard remote manipulator system docking target

Docking mechanism for spacecraft

Docking system for spacecraft

Device for determining relative angular position between spacecraft and a radiator emitting celestial body

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection

Micrometeoroid detector

Docking system for spacecraft

Docking mechanism for spacecraft

Docking system for spacecraft

Micrometeoroid detector

Docking system for spacecraft

Docking mechanism for spacecraft

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SUBMARINES
Low density bermelanzita-carbon microporous composites -- aircraft and submarine compartment safety

SUBMERGING
Leaky immersion apparatus for minute articles

SUBMILLIMETER WAVES
LASER CASE-LW-13570-1-c 33 N84-19452

SUBSTRATES
Sulfuric acid

SUBSONIC SPEED
Landing arrangement for aerospace vehicle Patent

SUBREFLECTORS
Millimeter-wave monolithic diole-grid frequency multiplexers

SUBMINIATURIZATION
Subreflecting device using planar logarithmic response heated flamedatory type diodes Patent

SUBMERGING
Composites — aircraft and submarine compartment

SUBSISTENCE
Submersible liquid inflatable structures

SUBSONIC WIND TUNNELS

SUBSTANCES
Nitrogen and hydrogen substances

SUBSTRATES
Heating panels

SUPERBATCH
Superbath exchanger apparatus for holding amount of metal to be sprayed in an electroplating bath

SUPERHEATING
Superheating of jet engine Patent

SUPERIMPOSED
Superimposed subreflecting device

SUPERCONDUCTIVITY
Superconducting accelerator Patent

SUPERCONDUCTING MAGNETS
Doped Josephson tunneling junction for use in a sensitive IR detector

SUPERCOOLING
Method and apparatus for supercooling and solidifying substances

SUPERCOUPONDR
Superconducting accelerometer Patent

SUPERCRITICAL FLUIDS
Method of producing high T(subc) superconducting MSN films

SUPERCRITICAL PRESURES
Oil shale extraction using super-critical solution

SUPERFLUIDITY
Superfluidity by superfuidity Patent

SUPERFLUIDITY
Method of producing high T(subc) superconducting NBN films

SUPERLATTICES
Superlattices

SULFIDES
Stable sulfur allotropic forms

SUM RULES
Stable sulfur allotropic forms

SULFUR DIOXIDES
Superconducting magnetic-field-trapping device

SUNLIGHT
Sun tracking solar energy collector

SULFURIC ACID
Sunlight illumination apparatus for compensating solar energy

SUPERLATTICE
Superlattices

SUPERPLASTICITY
Superplastically formed diffusion bonded metallic structures

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Superplastically formed diffusion bonded metallic structures

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SUPERPLASTICITY
Superplastically formed diffusion bonded metallic structures
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-ARC-11584-1] c 27 N79-25469

Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N79-25474

Aromatic cydotriphosphazenes and their uses

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LAR-14322-1] c 25 N80-26040

Boron-containing organic polymers and ceramic materials thereof
[NASA-CASE-LAR-13992-1-CU] c 25 N80-13946

Polyimides containing alkylenediamine groups
[NASA-CASE-LAR-13601-1-CU] c 27 N79-14337

Novel cydotriphosphazene compositions based on 4,4'-isophthalamido/phenolic anhydride (IPDA)
[NASA-CASE-LAR-14184-1] c 24 N90-15148

Water-soluble polyimides containing acrylic side chains
[NASA-CASE-LAR-14162-1] c 27 N79-12529

Polyimides with carboxyl and other connecting groups between the arylene ether-phosphazene units
[NASA-CASE-LAR-14001-1] c 27 N79-15260

Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-LAR-13821-1] c 27 N79-16950

Novolak Condensation polymides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 27 N90-19300

Triazine-linked (diorganooxyphosphonyl)-methyl-2,4- and 2,6-diamino benzanes
[NASA-CASE-LAR-11245-4] c 27 N90-20133

Processes for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N80-26541

Method for preparing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17184-1-CU] c 27 N79-16711

Generalized polarization state
[NASA-CASE-NPO-17184-1-CU] c 27 N79-16737

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17381-1-CU] c 43 N79-16462

SYNTHETIC FIBERS
Fluid containers and reusable separtum system therefor
[NASA-CASE-NPO-10123] c 15 N79-24835

Fabric for membrane protection garment
[NASA-CASE-MSC-12109] c 18 N79-26285

Fluid impervious barrier including liquid metal alloy and method of making self-sealing article
[NASA-CASE-XNP-08881] c 17 N78-28747

Polymeric electrolyte hydromer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

Process for spinning flame retardant elastomeric compositions -- fabricating synthetic fibers for high oxygen environment
[NASA-CASE-MSC-14331-3] c 27 N78-32282

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-12530-1] c 25 N78-17187

SYNTHETICfuels
Molten salt pyrolysis of latex -- synthetic hydrocarbon fuel production utilizing the liquid salt slurry
[NASA-CASE-NPO-13530-1] c 24 N79-16475

SYNTHETIC RESINS
Coating process
[NASA-CASE-XNP-06508] c 18 N69-38985

Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N78-27272

Process for forming pyrrole molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 27 N80-29358

Copolyimide with a combination of flexibilizing groups for use in making flame retardant molding compositions
[NASA-CASE-LAR-14319-1-CU] c 27 N78-20560

Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14186-1] c 27 N78-20956

Polyimides containing a dimethylamino-link diarylide
[NASA-CASE-LAR-14186-1] c 27 N78-20956

Polyimides containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N78-27272

PHENOL-FORMALDEHYDE RESINS
Preparation of resins from bis(N-isocyanato) of vinyl diamides
[NASA-CASE-LAR-14330-1] c 27 N79-13560

Poly-N-phenylmaleimide

Ladder polymers for use as high temperature stable resin-coated materials
[NASA-CASE-LEW-14203-1] c 27 N79-15402

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14203-1] c 27 N79-15402

Novel polyimides containing a dimethylamino-link diarylide
[NASA-CASE-LEW-14203-1] c 27 N79-15402

SYNTHESIZERs
Doppler frequency controlled synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

SYNTHETIC APERTURE RADAR
Development of linear phase 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 imaging process
[NASA-CASE-LAR-14019-1] c 35 N79-14268

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-ARC-11584-1] c 27 N78-25469

Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N78-25474

Aromatic cydotriphosphazenes and their uses

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[NASA-CASE-LAR-13992-1-CU] c 25 N80-13946

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[NASA-CASE-LAR-13601-1-CU] c 27 N79-14337

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Water-soluble polyimides containing acrylic side chains
[NASA-CASE-LAR-14162-1] c 27 N79-12529

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[NASA-CASE-LEW-14346-1] c 27 N90-19300

Triazine-linked (diorganooxyphosphonyl)-methyl-2,4- and 2,6-diamino benzanes
[NASA-CASE-LAR-11245-4] c 27 N90-20133

Processes for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N80-26541

Method for preparing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17184-1-CU] c 27 N79-16711

Generalized polarization state
[NASA-CASE-NPO-17184-1-CU] c 27 N79-16737

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17381-1-CU] c 43 N79-16462
Electric motive machine including magnetic bearing

[WIRE-WINDING] 02 N82-22551
Laser measuring system for incremental assemblies — measuring wire-wrapped frame assemblies in spark chambers

[WIRE-PROFILE] 15 N82-23349
Wiring system for aircraft wings — differential pressure measurements for subsonic aircraft

[WING-TIPS] 36 N82-16398
Improved high power/high frequency inductor

[WING-BRIDGE] 39 N81-14539
Wireless communication

[WING-ROOTS] 04 N82-12151
Silent emergency alarm system for schools and the like

[WING] 14 N81-28594
Apparatus for testing wiring harness by vibration generating means

[WING-PROFILES] 14 N78-17325
Test apparatus for locating shorts during assembly of electrical buses

[WING] 33 N82-24420
Phase sensitive guidance sensor for wire-following vehicles

[WING-SLOTS] 35 N84-33769
Method of radiographic inspection of wooden members

[WING] 36 N82-26756
Wingtip vortex turbine

[WING] 37 N82-26168
Wingtip vortex propeller

[WING] 07 N85-35194
Wingtip vortex turbine

[WING-CA R-14116-1] 05 N81-14345

WOOL

Method of radiographic inspection of wooden members

[WOOD] 38 N90-23756
WooD structures

[WORDS (LANGUAGE)] 24 N81-13999
Words (language)

[WRENCH] 03 N84-28344
Digital memory in which the driving of each word location is controlled by a switch core Patent

[WRENCH] 10 N71-26343
Method of producing complex aluminum alloy parts of high tension, and products thereof

[WRENCH] 26 N82-26756
Heat pipe with dual working fluids

[WRENCH] 24 N78-17336
Thermoelectrical generation of hydrogen

[WRENCH] 02 N84-28268
High temperature and heavy metal working fluid

[WRENCH] 04 N83-19596
Ceramic heat pipe wick

[WRENCH] 27 N90-23541
Spectral slicing x-ray telescope with variable magnification

[WORKSTATIONS] 02 N82-38247
Work hardening

[WORKSTATION] 02 N82-26373
Flexible electric device

[WORKSTATION] 33 N78-20567
Remote pivot decoupler: Wing/store flutter

[WORKSTATION] 07 N86-35194
Wingtip vortex turbine

[WRENCH] 05 N81-14345
Selectable topline swivel chute system

[WIRE-CA R-14322-1] 02 N81-15138
Transfer printed core line for flexible connectors

[WIRE] 24 N78-17336
Three mirror glancing incidence system for x-ray telescope

[WIRE-CA R-14018-1] 02 N81-13999
Three mirror glancing incidence x-ray telescope

[WIRE] 15 N71-22714
Forming tool for ribbon or wire

[WIRE-LENGTH] 02 N81-13999
Forming tool for ribbon or wire

[WIRE-LENGTH] 15 N82-28268
Flexible electric device

[WIRE-LENGTH] 02 N82-28268
Remote pivot decoupler: Wing/store flutter

[WIRE-LENGTH] 04 N82-28268
Flexible electric device

[WIRE-LENGTH] 03 N87-14671
Three-dimensional and tomographic imaging device for X-ray imaging

[WIRE-LENGTH] 03 N87-14671
Extended range x-ray telescope

[WIRE-LENGTH] 07 N90-23541
Spectral slicing x-ray telescope with variable magnification

[WIRE-LENGTH] 02 N82-26373
Flexible electric device

[WIRE-LENGTH] 07 N86-35194
Wingtip vortex turbine

[WIRE-LENGTH] 05 N81-14345
Selectable topline swivel chute system

[WIRE-LENGTH] 02 N82-38247
Method of producing metal alloy parts of high tension, and products thereof

[WIRE-LENGTH] 26 N82-26756
Heat pipe with dual working fluids

[WIRE-LENGTH] 24 N78-17336
Thermoelectrical generation of hydrogen

[WIRE-LENGTH] 02 N84-28268
High temperature and heavy metal working fluid

[WIRE-LENGTH] 04 N83-19596
Ceramic heat pipe wick

[WIRE-LENGTH] 27 N90-23541
Spectral slicing x-ray telescope with variable magnification

[WIRE-LENGTH] 02 N81-13999
Three mirror glancing incidence x-ray telescope

[WIRE-LENGTH] 15 N71-22714
Forming tool for ribbon or wire

[WIRE-LENGTH] 02 N82-26373
Flexible electric device

[WIRE-LENGTH] 07 N86-35194
Wingtip vortex turbine

[WIRE-LENGTH] 05 N81-14345
Selectable topline swivel chute system

[WIRE-LENGTH] 02 N82-38247
Method of producing metal alloy parts of high tension, and products thereof

[WIRE-LENGTH] 26 N82-26756
Heat pipe with dual working fluids

[WIRE-LENGTH] 24 N78-17336
Thermoelectrical generation of hydrogen

[WIRE-LENGTH] 02 N84-28268
High temperature and heavy metal working fluid
YAG LASERs

Purging means and method lor Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N76-17238

Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330

YAG LASERS

Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19564

Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

YAGI ANTENNAS

Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015

VARNS

Flexible pi connector thermal barrier insulator.
[NASA-CASE-MSC-19868-1] c 34 N78-35350

Lightweight electrically-powered flexible thermal
luminaire — made of metal and nonconductive yarns
[NASA-CASE-MSC-12962-1] c 33 N76-12331

YAW

Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

YIELD STRENGTH

High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32494

YLF LASERS

Tm,Ho:YLF laser end-pumped by a semiconductor diode
laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

YO-YO DEVICES

Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016

YOKEs

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

YTERBIUM

Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

YTTRIUM COMPOUNDS

Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500

Z

ZEOLITES

Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-28185

Regenerative Cu La zeolite supported desulfurizing sorbents

ZINC

Potassium silicate zinc coatings
[NASA-CASE-GSC-10961-1] c 18 N72-33581

Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HGN-10962-1] c 44 N76-29699

ZINC COMPOUNDS

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

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-15352] c 18 N72-17532

Brazing alloy
[NASA-CASE-XNP-02878] c 26 N75-27127

Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

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Lockheed Engineering and Management Services Co., Inc.  
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Deep space monitor communication satellite system Patent
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- [NASA-CASE-ARC-11348-1] c 37 N65-20767
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- Thru-manned two axis controller

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- Light weight fire resistant graphite composites

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- [NASA-CASE-ARC-11429-3] c 27 N65-15305
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- [NASA-CASE-ARC-11503-1] c 23 N65-27351
- Fire and heat resistant laminate resins based on maleimido and cyanoamidomethyl substituted 1,2,4- and -2,6-diaminobenzenes

- [NASA-CASE-ARC-11503-1] c 23 N65-27351
- Fire and heat resistant laminate resins based on maleimido and cyanomethyl substituted 1-(diisocyanate) methyl-2,4- and -2,6-diaminobenzenes

- [NASA-CASE-ARC-11502-3] c 27 N65-27454
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- [NASA-CASE-ARC-11646-1] c 18 N65-27544
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- [NASA-CASE-ARC-11620-1] c 37 N65-27555
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- [NASA-CASE-ARC-11611-1] c 74 N65-28146
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- [NASA-CASE-ARC-11429-2] c 23 N86-14384
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- [NASA-CASE-ARC-11532-3] c 54 N86-20202
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- [NASA-CASE-ARC-11505-2] c 18 N89-25266
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- [NASA-CASE-ARC-11505-1] c 18 N89-25266
- Suitport extra vehicular access facility

- [NASA-CASE-ARC-11501-1] c 18 N89-25266
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- [NASA-CASE-ARC-11505-2] c 18 N89-25266
- Suitport extra vehicular access facility

- [NASA-CASE-ARC-11505-2] c 18 N89-25266
- Suitport extra vehicular access facility

- [NASA-CASE-ARC-11505-2] c 18 N89-25266
- Suitport extra vehicular access facility

- [NASA-CASE-ARC-11505-2] c 18 N89-25266
- Suitport extra vehicular access facility

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- Suitport extra vehicular access facility

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- Suitport extra vehicular access facility

- [NASA-CASE-ARC-11505-2] c 18 N89-25266
- Suitport extra vehicular access facility

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NASA, Langley Research Center

Resonant waveguide stark cell

Fluid control apparatus and method

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Apparatus and method for reducing thermal stress in a turbine rotor

Apparatus and method for reducing thermal stress in a turbine rotor

Traveling wave tube circuit

High pressure gas bearing

Solar cells having integral collector grids

Application of semiconductors to dust cells to solar arrays by screen printing

Solid cell collector and method for producing same

High temperature sealant

Heat exchanger and method of making

Cam-operated pitch-change apparatus

Integrated gas turbine engine-nacelle

Variable area exhaust nozzle

Indicated mean effective pressure instrument

Thermocouples of molybdenum and iridium alloys for more stable vacuum-t high temperature performance

Back wall solar cell

Formulated plastic dispensers for soluble electrode coatings

Closed loop array-air thrust engine system with power control circuit

Heat exchanger and method of making

Composite seal for turbomachinery

Method for fabricating solar cells having integrated collector grids

Formulated plastic coatings for soluble electrode coatings

Closed loop spray cooling apparatus

Hydrogen velocity gun

Low heat leak connector for cryogenic system

Metallographic examination of molybdenum single crystal and polycrystalline electronic materials

Method for detecting defects in thin films of ferrous and related compounds

Process for making a high toughness, high strength iron alloy

Shaft seal assembly for high speed and high pressure applications

Self-sustaining solar cell

Solar chemical-electrical cell for rebalancing REDOX flow system

Catalytic trimerization of aromatic nitriles and related compounds

In-situ cross linking of polyvinyl alcohol

Circumferential shaft seal

Polynylvinyl alcohol battery separator containing inorganic filler

Superconducting solar cells

Cross-linked polyvinyl alcohol and method of making same

Catalyst surfaces for the chromatographic/chronic redox couple

Catalyst and method of making

Polyvinyl alcohol and method of making same

Superconducting solar cells

High thermal power density heat transfer

Assay to determine the active film stiffness

Composite seal for turbomachinery

Modifying method for making plastic separators for soluble electrode cells

Method of making polyimide reinforced fabric

Composition and method for making polyimide reinforced fabric

Methods and apparatus for rapid thrust increases in a gas turbine engine

Improved refractory coatings

Intra-ocular pressure normalization technique and apparatus for rapid thrust increases in a gas turbine engine

Gas path seal

Free-piston regenerative hot gas hydraulic engine

Hydrogen hollow cathode ion source

Free-piston regenerative hot gas hydraulic engine

Composite seal for turbomachinery

Superconducting solar cells

High thermal power density heat transfer

Assay to determine the active film stiffness
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver

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Method and apparatus for producing concentric hollow spheres

[C-TL;NASA-CASE-NPO-15059-1] c 32 N84-21938

Push-pull converter with energy saving circuit for protecting switching transformers from peak power stress

[C-TL;NASA-CASE-NPO-15121-1] c 36 N84-21667

Optical gYROscopic system

[C-TL;NASA-CASE-NPO-15107-1] c 38 N84-21596

Suppressed carrier signals

[C-TL;NASA-CASE-NPO-15082-1] c 32 N83-50200

Fluxgate nuclear reactor having a core with a powder moderator

[C-TL;NASA-CASE-NPO-15058-1] c 37 N83-49203

Real-time multiple-looking aperture processor for spacecraft applications

[C-TL;NASA-CASE-NPO-15043-1] c 32 N82-22977

Microwave limb scanner

[C-TL;NASA-CASE-NPO-15029-1] c 42 N82-22656

Faraday rotation measurement method and apparatus

[C-TL;NASA-CASE-NPO-14899-1] c 35 N82-15381

Carbon fiber-reinforced plastic for structural applications

[C-TL;NASA-CASE-NPO-14897-1] c 36 N82-14843

Fiber optic transmission line stabilization apparatus and method

[C-TL;NASA-CASE-NPO-15020-1] c 44 N82-16745

Suspension system for a wheel rolling on a flat track

[C-TL;NASA-CASE-NPO-14396-1] c 37 N82-21587

Pulse switching for high energy lasers

[C-TL;NASA-CASE-NPO-15021-1] c 44 N82-21072

Instrumentation for sensing moisture content of material

[C-TL;NASA-CASE-NPO-15019-1] c 33 N82-21493

Acoustic system for material transport

[C-TL;NASA-CASE-NPO-15018-1] c 37 N82-23376

Acoustic suspension system

[C-TL;NASA-CASE-NPO-15017-1] c 44 N82-23077

Efficiency of silicon solar cells containing chromium

[C-TL;NASA-CASE-NPO-15016-1] c 44 N82-22677

Distributed multiport memory architecture

[C-TL;NASA-CASE-NPO-15015-1] c 47 N82-22222

Means and method for calibrating a photon detector

[C-TL;NASA-CASE-NPO-15014-1] c 32 N82-20702

State-of-charge coulometer

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Microphotometer

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Broadband optical radiation detector

[C-TL;NASA-CASE-NPO-15011-1] c 44 N82-19976

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[C-TL;NASA-CASE-NPO-15010-1] c 32 N82-18975

Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar

[C-TL;NASA-CASE-NPO-15009-1] c 44 N82-18092

Synchronized voltage contrast display analysis system

[C-TL;NASA-CASE-NPO-15008-1] c 32 N82-17996

Broadband optical radiation detector

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Elastomer coated filter and composites thereof comprising at least 60% by weight of a hydrated filter and an elastomer coating containing an acid...
Tunable cavity resonator with ramp shaped supports [NASA-CASE-HON-10709-1] c 26 N74-11513
Solid State Radiations, Inc., Los Angeles, CA.
Southern Methodist Univ., Dallas, TX.
Sundberg Research Corp., Lexington, MA.
Insulatesilazane polymer and process for producing same [NASA-CASE-XMF-02526-1] c 27 N79-21190
Southwest Research Inst., San Antonio, TX.
Thin film strain transducer [NASA-CASE-WLP-10055-1] c 35 N84-20615
Space Sciences, Inc., Wattham, MA.
Doppler shift system [NASA-CASE-HON-10740-1] c 72 N74-18101
Space Technology Labs, Inc., Redondo Beach, CA.
Ac electric flip-flop circuits Patent [NASA-CASE-XGS-00820] c 14 N71-16014

Robles Associates, Inc., Nashua, NH.
Sandels Labs, Attleboro, MA.
Fluid sampling device Patent [NASA-CASE-GSC-12142-1] c 35 N77-32455
Santa Barbara Research Center, Goleta, CA.
Santa Cruz, Cal.
Reversed curl flip flop inverter Patent [NASA-CASE-10756-1] c 07 N75-24738
System for measuring three fluctuating velocity components in a turbulently flowing fluid [NASA-CASE-10756-3] c 34 N77-27345
Scholz & Co., Northfield, MN.
Selectronic Corp., Hollywood, CA.
Science Applications, Inc., La Jolla, CA.
Ultra-violet process for producing faster resistant polyimide and products produced thereby [NASA-CASE-MSC-16074-1] c 27 N80-26448
Scott Aviation Corp., Lancaster, NY.
Serv-Air, Inc., Edwards, CA.
Portable device for use in start-up/air start systems for aircraft and having leadless pin contact Patent [NASA-CASE-10113-1] c 33 N80-26559
Serv-Air, Inc., Houston, TX.
Razor blade with passive tuned tab Patent [NASA-CASE-XRC-10100] c 10 N71-24662
Serv-Air, Inc., Houston, TX.
Razor blade with passive tuned tab [NASA-CASE-XRC-10100-1] c 14 N72-17329
Space, Inc., Huntsville, AL.
Vibroheating system using an infrared source and sensor Patent [NASA-CASE-XMF-09394] c 09 N71-22665
Method and device for detecting voids in low density material Patent [NASA-CASE-XGS-10575] c 12 N71-28003
Spectra-Physics, Inc., Mountain View, CA.
Optically pumped resonance magnetometer for determining vectorial components in a spatially stationary magnet [NASA-CASE-XGS-04879] c 24 N71-20428
Spectroch, Inc., Simyar, CA.
Apparatus for applying cover slides Patent [NASA-CASE-HON-10575] c 09 N71-22665
Speranco Co., Co., Great Neck, NY.
Automatic gain control system Patent [NASA-CASE-XMS-05037] c 09 N69-24330
Sperro Rand Corp., Blue Bell, PA.
Flip-flop oscillator and bi-polar current drive Patent [NASA-CASE-XGS-00508] c 10 N71-10547
Sperro Rand Corp., Huntsville, AL.
Collapsible antenna boom and transmission line Patent [NASA-CASE-MFS-20066] c 07 N71-27919
Frequency division multiplex technique Patent [NASA-CASE-KSC-10521] c 07 N73-20176
Device for configuring multiple leads [NASA-CASE-MFS-22135-1] c 33 N74-26977
System for enhancing tool-exchange capabilities of a portable wrench [NASA-CASE-MFS-22283-1] c 37 N73-33995
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Photovoltaic cell array [NASA-CASE-MFS-22458-1] c 44 N77-10625
Notch filter [NASA-CASE-XGS-23033-1] c 32 N73-18307

Technology, Inc.

Tang Designs, Inc., College Park, MD.
Recovery of radiation damaged solar cells through thermal annealing [NASA-CASE-XGS-06107-1] c 32 N70-11262
Taft Broadcasting Corp., Houston, TX.
Modulator for a 400 MHz radio frequency signal [NASA-CASE-MSC-12067-1] c 32 N75-21485
Tamarack Scientific Co., Inc., Orange, CA.
Detectors for microprocessor and measurement apparatus Patent [NASA-CASE-LAR-10907-1] c 35 N70-26551
Telescript, Inc., Paramus, NJ.
Automatic lightning detection and photographic system [NASA-CASE-KSC-10728-1] c 14 N73-32319
Technidyne, Inc., West Chester, PA.
Methods and apparatus employing xerographic energy for writing Patent [NASA-CASE-MFS-20506] c 15 N71-17686
Technidon, Inc. of Tech, Haifa.
Modeling water scale for positive film softness [NASA-CASE-LERW-12898-1] c 37 N82-12442
Technochon Research and Development Foundation Ltd., Haifa (Israel).
Self-stabilizing radial face seal [NASA-CASE-LERW-12991-1] c 37 N81-24442
Techron, Inc., Cleveland, OH.
Apparatus and method for processing Kokotkov source [NASA-CASE-MSC-13999-1] c 54 N72-26626
Technology, Inc., San Antonio, TX.
Contourgraph system for monitoring electrical diagrams [NASA-CASE-MSC-13407-1] c 10 N72-20225
Teledyne Brown Engineering
Modification of the physical properties of freeze-dried
rice

Teledyne Brown Engineering, Huntsville, AL.
Thermal controllable poroporous material

[TAG-CASE-MFS-20774] c 17 N9-14200

Rocket having barium release system to create ion
clouds in the upper atmosphere

[TAG-CASE-LAR-10670-2] c 15 N7-27360

Texas A&M Univ., College Station.
Apparatus for use in examining the lattice of a
semiconductor wafer by x-ray diffraction

[TAG-CASE-NPO-14424-1] c 33 N8-32650

Texas Technological Univ., Lubbock.
Insulated electrodoped glass electrodes

[TAG-CASE-MSC-12465-1] c 27 N5-24716

Thiokol Chemical Corp., Baltimore, PA.
Casting propellant in rocket engine

[TAG-CASE-LAR-11995-1] c 28 N7-10213

Thiokol Corp., Brigham City, UT.
Process for the treatment of AF propellant

[TAG-CASE-NPO-14109-1] c 28 N8-23471

Thiel Chemical Co., Inc., Dallas.
Integrated circuit including field effect transistor and
cermet resistors

[TAG-CASE-GSC-10835-1] c 09 N7-32305

Thiokol Chemical Corp., Dallas.
Apparatus for measuring semiconductor device
resistance

[TAG-CASE-NPO-14424-1] c 33 N8-32650

Texas Technological Univ., Lubbock.
Insulated electrodoped glass electrodes

[TAG-CASE-MSC-12465-1] c 27 N5-24716

Thiokol Chemical Corp., Baltimore, PA.
Casting propellant in rocket engine

[TAG-CASE-LAR-11995-1] c 28 N7-10213

Thiokol Corp., Brigham City, UT.
Process for the treatment of AF propellant

[TAG-CASE-NPO-14109-1] c 28 N8-23471

Thomson Ramo Wooldridge, Inc., Cleveland, OH.
Electromagnetic radiation energy

[TAG-CASE-TECH-13043-1] c 79 N9-18916

Tidewater (Henry F., Sr.), Treasure Island, FL.
Generator for use in generating electric power

[TAG-CASE-GLC-10189] c 08 N7-21626

Trans-Sonics, Inc., Lexington, MA.
Capacitive gaging apparatus being independent of
liquid distribution

[TAG-CASE-MFS-21269-1] c 14 N7-22442

Trans-Technology Corp., Canby, Oregon, OR.
Slide release mechanism

[TAG-CASE-MSC-20080-1] c 37 N8-30334

Transocean Engineering Associates, Inc., Annapolis, MD.
Spectroscopic equipment using a cylindrical
doctrine as a reflector for a slit

[TAG-CASE-GLS-08269] c 23 N7-26206

TRW, Inc., Redondo Beach, CA.
Method of and for determining the characteristics and
distribution of micrometeorites

[TAG-CASE-NPO-12127-1] c 91 N7-13130

Reinforced structural plastics

[TAG-CASE-LEW-10199-1] c 27 N7-23125

Capsular flow wobolding

[TAG-CASE-GLS-10119-1] c 37 N7-27568

Rule for making navigational computations

[TAG-CASE-XNP-01485] c 04 N7-17031

Refrigerating system

[TAG-CASE-XLE-00694] c 33 N7-17293

Temperature compensated current source

[TAG-CASE-XLE-00694] c 33 N7-17293

Shunt regulation electric power system

[TAG-CASE-GSC-10135] c 33 N7-17296

Thermal effect on a liquid medium

[TAG-CASE-ARC-19189] c 34 N7-17336

Multi-chamber controllable heat pipe

[TAG-CASE-PAR-19189] c 34 N7-17337

Microbalance

[TAG-CASE-MSC-11242] c 35 N7-17358

Gas laser construction for electrically isolating the
pressure gauge thereof

[TAG-CASE-MFS-22557] c 36 N7-17366

Thermal conduction mechanism

[TAG-CASE-WOO-00625] c 37 N7-17385

Apparatus for holding micor size range particulate
material

[TAG-CASE-NPO-10151] c 37 N7-17386

Solar cell module assembly

[TAG-CASE-GSC-10124-1] c 44 N9-19447

Low thrust monopropellant engine

[TAG-CASE-GXG-00829-1] c 45 N9-18547

Low thrust propellant engine

[TAG-CASE-GXG-00829-1] c 45 N9-18547

Molecular content and gas sampling device

[TAG-CASE-MSC-18866-1] c 35 N8-29213

TRW Space and Sea Systems Group, Redondo
Beach, CA.
Optical crystalline growth method for growing
optical crystals

[TAG-CASE-MSC-18866-1] c 35 N8-29213

TRW Equipment Labs., Cleveland, OH.
Pulsed power system patent

[TAG-CASE-MSC-19112] c 03 N7-11057

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Thermosel-thermoplastic aromatic polyamide containing N-propargyl groups  
[NASA-CASE-LAR-12723-2] c 27 N64-22746  
Ultrasonic transducer with Gaussian radial pressure distribution  
[NASA-CASE-LAR-12967-1] c 35 N84-22832  
Dual differential interferometer  
[NASA-CASE-LAR-12966-1] c 35 N65-30282

Virginia Univ., Charlottesville.  
Depositing semiconductor films utilizing a thermal gradient  
[NASA-CASE-XKS-04814] c 15 N69-21460  
Active microwave iris and windows  
[NASA-CASE-LAR-10513-1] c 07 N72-25170  
Thin film microwave iris  
[NASA-CASE-LAR-10511-1] c 09 N72-29172  
Apparatus for measuring a sorbate dispersed in a fluid stream  
[NASA-CASE-ARC-10996-1] c 35 N78-19465

Vivox Corp., Mountain View, CA.  
Amino acid analysis  
[NASA-CASE-NPO-12130-1] c 25 N75-14844  
Vought Corp., Hampton, VA.  
Mechanical end joint system for structural column elements  
[NASA-CASE-LAR-12482-1] c 37 N80-32732

Weaver Aircraft Corp., Burbank, CA.  
Articulated multiple couch assembly Patent  
[NASA-CASE-MSC-11253] c 05 N71-12343  
Device for separating occupant from an ejection seat Patent  
[NASA-CASE-XMS-06252] c 05 N71-20718  
Collapsible Apollo couch Patent  
[NASA-CASE-MSC-11240] c 05 N72-11085

Westinghouse Electric Corp., Baltimore, MD.  
Broadband choke for antenna structure  
[NASA-CASE-XMS-05203] c 07 N69-27462  
Electronic background suppression method and apparatus for a field scanning sensor  
[NASA-CASE-XGS-05211] c 07 N69-39960  
Solid-state current transformer Patent  
[NASA-CASE-MFS-22560-1] c 33 N77-14355  
Time delay and integration detectors using charge transfer devices Patent  
[NASA-CASE-GSC-12524-1] c 33 N81-33403

Westinghouse Electric Corp., Huntville, AL.  
Solid state television camera system Patent  
[NASA-CASE-XFM-06092] c 07 N71-24612  
Phototransistor Patent  
[NASA-CASE-MFS-20407] c 09 N73-19235

Westinghouse Electric Corp., Lima, OH.  
Transistor drive regulator Patent  
[NASA-CASE-LEW-10223] c 10 N71-27126  
Westinghouse Electric Corp., Pittsburgh, PA.  
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent  
[NASA-CASE-XMS-01315] c 09 N70-41675  
Thermal conductive connection and method of making same Patent  
[NASA-CASE-XMS-02087] c 09 N70-41717  
Gas cooled high temperature thermocouple Patent  
[NASA-CASE-XLE-09475-1] c 33 N71-15568  
High resolution developing of photosensitive resists Patent  
[NASA-CASE-XGS-04909] c 14 N71-17574  
Regulated power supply Patent  
[NASA-CASE-XMS-01991] c 09 N71-21449  
Pulse modulator providing fast rise and fall times Patent  
[NASA-CASE-XMS-04919] c 09 N71-23270  
Extended area semiconductor radiation detectors and a novel readout arrangement Patent  
[NASA-CASE-XGS-02320] c 14 N71-23401  
Frequency shiftkeying apparatus Patent  
[NASA-CASE-XGS-01537] c 07 N71-23405  
Phase locked phase modulator including a voltage controlled oscillator Patent  
[NASA-CASE-XNP-05328] c 10 N71-23544  
Bearing and gimbal lock mechanism and spiral flex feed module Patent  
[NASA-CASE-GSC-10556-1] c 31 N71-26537  
Multiple slope sweep generator Patent  
[NASA-CASE-XMS-03543] c 09 N71-28926  
Self-adjusting multisegment, deployable, natural circulation radiator Patent  
[NASA-CASE-XHO-03673] c 33 N71-29046  
Thermally cascaded thermoelectric generator Patent  
[NASA-CASE-NPO-10753] c 03 N72-26031  
Phototransistor imaging system Patent  
[NASA-CASE-MFS-20809] c 23 N73-13660

Demodulator for carrier transducers  
[NASA-CASE-NUC-10107-1] c 33 N74-17930  
Heat transfer device  
[NASA-CASE-NPO-11120-1] c 34 N74-18552  
Amplitude steered array  
[NASA-CASE-GSC-11446-1] c 33 N74-20680  
Glass-to-metal seals comprising relatively high expansion metals  
[NASA-CASE-LEW-10689-1] c 37 N74-21063  
Millimeter wave pumped parametric amplifier  
[NASA-CASE-GSC-11617-1] c 33 N74-32660  
Method of forming a Wick for a heat pipe  
[NASA-CASE-NPO-12391-1] c 34 N76-27155  
Magnifying image intensifier  
[NASA-CASE-GSC-12010-1] c 74 N78-18905  
Westinghouse Electric Corp., Trafford, PA.  
Sodium storage and injection system  
[NASA-CASE-NPO-12684-1] c 37 N80-10494  
Method of producing silicon  
[NASA-CASE-NPO-14382-1] c 31 N80-18231  
Weston Instruments, Inc., College Park, MD.  
Electrically resealable fuse Patent  
[NASA-CASE-XGS-11177] c 09 N71-27001  
Whirlpool Corp., Saint Joseph, MI.  
Relief container  
[NASA-CASE-XMS-06761] c 05 N69-23192  
Fluid sample collector Patent  
[NASA-CASE-XMS-06767-1] c 14 N71-20435  
Whittaker Corp., Los Angeles, CA.  
Polyurethanes of fluorine containing polycarbonates  
[NASA-CASE-MFS-10512] c 06 N73-30099  
Polyurethanes from fluorocatalyst propylene glycol polyesters  
[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  
Fluorine-containing polyurethane  
[NASA-CASE-MFS-10509] c 06 N73-30103  
Fluorine-containing polyformals  
[NASA-CASE-XFM-06002-1] c 27 N79-21911

Whittaker Corp., San Diego, CA.  
Reinforced polyvinylalcohol gasket and method of preparing the same  
[NASA-CASE-MFS-21394-1] c 37 N74-18126  
Polymeric foams from cross-linkable poly-n-arylenen benzimidazoles  
[NASA-CASE-MFS-10508] c 06 N73-30101  
Fluid sample collector Patent  
[NASA-CASE-XLE-09475-1] c 33 N71-15568  
High resolution developing of photosensitive resists Patent  
[NASA-CASE-XGS-04909] c 14 N71-17574  
Regulated power supply Patent  
[NASA-CASE-XMS-01991] c 09 N71-21449  
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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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Summary: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

Effective Date: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the Federal Register after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

Address: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

For Further Information Contact: Mr. John G. Mannix, (202) 755-3954.

Supplementary Information:

Subpart 2—Patents and other intellectual property rights

Subpart 2 of Part 1245 is revised to read as follows:

§ 1245.200 Scope of subpart.

§ 1245.201 Policy and objective.

§ 1245.202 Definitions.

§ 1245.203 Authority to grant licenses.

§ 1245.204 All licenses granted under this subpart.

§ 1245.205 Restrictions and conditions.

§ 1245.206 Procedures.

§ 1245.207 Application for a license.

§ 1245.208 Processing applications.

§ 1245.209 Notice to Attorney General.

§ 1245.210 Modification and termination of licenses.

§ 1245.211 Appeals.

§ 1245.212 Protection and administration of inventions.

§ 1245.213 Transfer of custody.

§ 1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Slat 3023 and 3024.

Subpart 2—Licensing of NASA Inventions

Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.
PATENT LICENSING REGULATIONS

(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)(ii)(A) and consideration of any 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 utilization 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 firm submitting plans that are determined by the agency to be within the capabilities of the firm 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 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 may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(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.

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:
**Report No.**
NASA SP-7039 (39)

**Title and Subtitle**
NASA Patent Abstracts Bibliography
A Continuing Bibliography
Section 2: Indexes (Supplement 39)

**Report Date**
July 1991

**Performing Organization Code**
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**Author(s)**

**Performing Organization Name and Address**
NASA Scientific and Technical Information Program

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