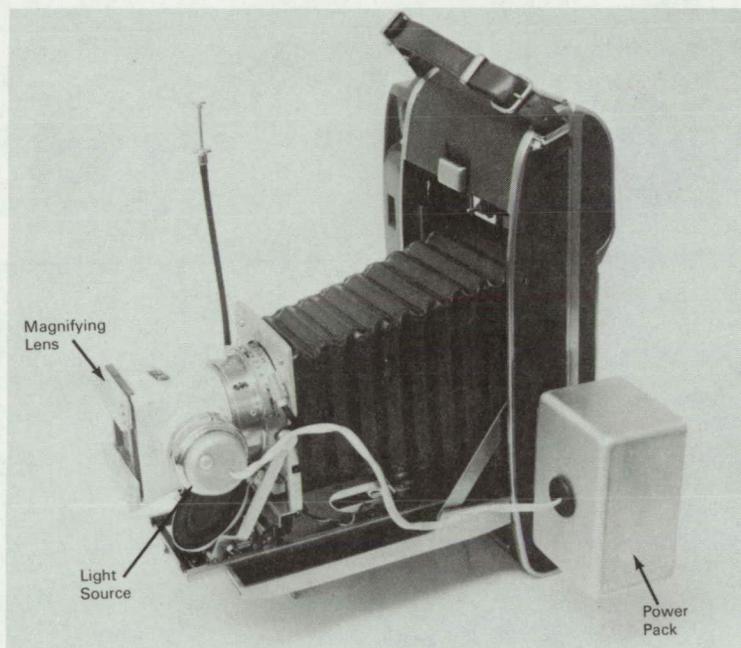


NASA TECH BRIEF



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Camera Lens Adapter Magnifies Image



The problem:

In the inspection of welds for possible flaws, such as cracks or discontinuities, those that are not visible to the naked eye must be photographed in close-up and the negative must then be enlarged to bring out the required detail. All of this involves time and expense and adds delay to corrective procedures.

The solution:

An illuminated 7-power magnifier adapted to the lens of a standard Polaroid Land camera.

How it's done:

A Polaroid camera is modified by the addition of a magnifying lens and light source mounted in a depth-

adjustable support bracket. The light source is diffused to eliminate hot spots or reflection. Power for the light source is supplied by two C-size dry batteries contained in a pack that is mounted on the camera case.

Notes:

1. Weld flaws are first located by inspection with a 10-power magnifying glass and then photographed with this device, thus providing immediate pictorial data for use in remedial procedures.
2. A survey of suppliers has revealed that no such device is commercially available.

(continued overleaf)

3. Inquiries concerning this invention may be directed to:

Technology Utilization Officer
Marshall Space Flight Center
Huntsville, Alabama 35812
Reference: B67-10431

Patent status:

This is the invention of a NASA employee and a patent application has been filed. Inquiries concerning license rights may be made directly to the inventor, Mr. F. L. Moffitt, at Marshall Space Flight Center.
(MFS-11955)