

# NASA TECH BRIEF



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## Salvaging Surface-Damaged Aluminum Castings

A method has been devised of salvaging finish-machined aluminum parts having pits or scratches in critical sealing surfaces. The repair operation includes anodizing the part, removing the oxide layer from the repair area, filling the pit or scratch with copper, capping the copper fill with cadmium, and hand polishing.

Industry will be interested in this novel method, which uses a metal plating process to repair surfaces of aluminum parts in a manner comparable to filling dental cavities. Since the equipment is portable, the procedure can be applied at any stage of manufacture or assembly. Appreciable cost savings may be realized from its use.

### Note:

No additional documentation is available. Specific questions, however, may be directed to:

Technology Utilization Officer  
Marshall Space Flight Center  
Huntsville, Alabama 35812  
Reference: B70-10120

### Patent Status:

No patent action is contemplated by NASA.

Source: T. L. Hanna of  
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