

Title (en)  
Method and apparatus for selective electroplating.

Title (de)  
Verfahren und Vorrichtung zum selektiven Elektroplattieren.

Title (fr)  
Procédé et appareil de dépôt sur des surfaces déterminées par voie électrolytique.

Publication  
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Application  
**EP 89105309 A 19890324**

Priority  
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Abstract (en)  
[origin: US4853099A] An electroplating apparatus for rapidly depositing a metal onto a selected surface of a workpiece, which apparatus comprises an anode having an active surface with a selected shape to combine with the selected surface of the workpiece to define an elongated gap of at least about 0.050 inches, means for supporting this anode in a fixed position to define the elongated gap; solution circulating means for forcing an electroplating solution with metal cations through the gap in a generally closed path at a velocity to exchange electroplating solution in the gap at a rate of at least 25 times per minute; and, means for applying current flow between the selected workpiece surface and the active surface of the anode through the gap at a current density in excess of 2.0 amperes/in<sup>2</sup>. The invention also involves the method of using this apparatus to rapidly deposit metal, such as nickel, onto the inner cylindrical surface of a bore on a complex part such as an aircraft landing gear forging.

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Electroplating Handbook (Ed. L. J. Durney), 4th Ed., Van Nostrand Reinhold Comp., New York, US, 1984, p.767-73

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