

Title (en)

INHIBITING CORROSION OF LEAD OR LEAD-ALLOY ANODES IN A CHROMIUM ELECTROPLATING BATH

Publication

**EP 0357326 A3 19901024 (EN)**

Application

**EP 89308528 A 19890823**

Priority

- US 23760788 A 19880826
- US 35573789 A 19890522

Abstract (en)

[origin: EP0357326A2] To inhibit anode corrosion, electroplating apparatus includes an anode protection circuit with an auxiliary power supply (5) for applying a protective potential, less than the plating potential and at a much lower current, to the anode (1). The protective potential is desirably applied through an auxiliary cathode (2) near the anode (1), and advantageously is left on when plating is not taking place.

IPC 1-7

**C25D 3/04**; **C23F 13/00**

IPC 8 full level

**C25D 11/38** (2006.01); **C23F 13/00** (2006.01); **C25D 3/04** (2006.01); **C25D 5/00** (2006.01); **C25D 17/10** (2006.01); **C25D 17/12** (2006.01)

CPC (source: EP KR)

**C23F 13/005** (2013.01 - EP); **C25D 3/04** (2013.01 - EP); **C25D 17/00** (2013.01 - KR)

Citation (search report)

- [X] US 4062741 A 19771213 - HARAYAMA AKIRA
- [A] GB 1148070 A 19690410 - M & T CHEMICALS INC [US]

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EP2281642A4

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0357326 A2 19900307**; **EP 0357326 A3 19901024**; CN 1040633 A 19900321; JP H02310397 A 19901226; KR 900003422 A 19900326

DOCDB simple family (application)

**EP 89308528 A 19890823**; CN 89106765 A 19890825; JP 22140089 A 19890828; KR 890012162 A 19890825