Title (en)

HIGH-RATE CHROMIUM ALLOY PLATING

Publication

EP 0073221 B1 19860129 (EN)

Application

EP 82900730 A 19820121

Priority

US 24166381 A 19810309

Abstract (en)

[origin: WO8203095A1] High-speed plating of corrosion-resistant, chromium alloy coatings from divalent/trivalent chromium solutions is feasible with high current densities, rapid solution flow and careful control of pH. Chromium-iron-nickel alloy coatings are plated on copper cathodes, for example, from trivalent chromium baths at 30 microns per minute and 160 A/dm<s2>s. Current densities in the range of about 75-400 A/dm<s2>s (5-26 A/in<s2>s) are most useful.

IPC 1-7

C25D 3/56

IPC 8 full level

C25D 3/56 (2006.01); **C25D 5/04** (2006.01)

CPC (source: EP)

C25D 3/56 (2013.01); **C25D 5/04** (2013.01)

Citation (examination)

J.K. Dennis, "Nickel and chromism plating", pages 98-99, 1972

Cited by

US12006586B2; WO2021214389A1

Designated contracting state (EPC)

AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)

WO 8203095 A1 19820916; CA 1195645 A 19851022; DE 3268722 D1 19860313; EP 0073221 A1 19830309; EP 0073221 A4 19830114; EP 0073221 B1 19860129; JP S58500253 A 19830217

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US 8200070 W 19820121; CA 394931 A 19820126; DE 3268722 T 19820121; EP 82900730 A 19820121; JP 50075682 A 19820121