

Title (en)

Process for depositing crack-free, corrosion resistant and hard chromium and chromium alloy layers

Title (de)

Verfahren zur Abscheidung rissfreier, korrosionsbeständiger und harter Chrom- und Chromlegierungsschichten

Title (fr)

Procédé pour la déposition des couches de chrome et d'alliage de chrome, sans fissure, résistantes contre la corrosion et dures

Publication

**EP 1798313 B1 20171213 (DE)**

Application

**EP 06004787 A 20060309**

Priority

DE 102005059367 A 20051213

Abstract (en)

[origin: EP1798313A2] Electrolytically coating a surface of a substrate comprises contacting the surface of the substrate with an electrolytic plating composition comprising a source of chromium ions, a mineral acid, a source of halogen oxoanion, an alkylsulfonic acid, and a source of sulfoacetic acid from sulfoacetic acid, a sulfoacetate salt, a sulfoacetate ester, a sulfoacetate anhydride, and a reactant which generates sulfoacetic acid; and supplying an external source of electrons to electrolytically deposit the chromium-based layer onto the surface of the substrate. An independent claim is included for an electrolytic plating composition.

IPC 8 full level

**C25D 3/10** (2006.01)

CPC (source: EP KR US)

**C25D 3/04** (2013.01 - KR); **C25D 3/10** (2013.01 - EP US)

Cited by

WO2009121443A1; US8337687B2; US8277953B2; US8110087B2; EP3250733B1

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**EP 06004787 A 20060309**; CN 200610073589 A 20060413; DE 102005059367 A 20051213; JP 2006103884 A 20060405; KR 20060060625 A 20060630; US 60967206 A 20061212