

Title (en)
METHOD FOR ELECTROLYTIC COATING OF MATERIALS WITH ALUMINIUM, MAGNESIUM OR ALUMINIUM AND MAGNESIUM ALLOYS

Title (de)
VERFAHREN ZUR ELEKTROLYTISCHEN BESCHICHTUNG VON WERKSTOFFEN MIT ALUMINIUM, MAGNESIUM ODER LEGIERUNGEN VON ALUMINIUM UND MAGNESIUM

Title (fr)
PROCEDE D'ENDUCTION PAR ELECTROLYSE DE MATERIAUX AVEC DE L'ALUMINIUM, DU MAGNESIUM OU DES ALLIAGES D'ALUMINIUM ET DE MAGNESIUM

Publication
EP 1543180 B1 20060531 (DE)

Application
EP 03807748 A 20030715

Priority
• EP 03807748 A 20030715
• EP 0307632 W 20030715
• EP 02021402 A 20020925

Abstract (en)
[origin: EP1403402A1] In the electrolytic coating of substrates with aluminum, magnesium or an Al/Mg alloy the substrate is pretreated by dipping in an electrolyte and anodically connecting it, the coating immediately following in the same electrolyte with the bath containing an organoaluminum compound as the electrolyte; and a halogen-free aprotic solvent for the electrolyte. In the electrolytic coating of substrates with aluminum, magnesium or an Al/Mg alloy the substrate is pretreated by dipping in an electrolyte and anodically connecting it, the coating immediately following in the same electrolyte with the bath containing: (a) an organoaluminum compound of formula (I) or (II); and (b) a halogen-free aprotic solvent for the electrolyte. n = 0 or 1; M = sodium or potassium; and R1 - R4 = 1-4C alkyl.

IPC 8 full level
C25D 5/34 (2006.01); **C25D 3/42** (2006.01); **C25D 5/42** (2006.01)

CPC (source: EP US)
C25D 3/42 (2013.01 - EP US); **C25D 5/42** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1403402 A1 20040331; AU 2003250061 A1 20040504; CN 1685087 A 20051019; CN 1685087 B 20101229; DE 50303610 D1 20060706; EP 1543180 A1 20050622; EP 1543180 B1 20060531; JP 2006500476 A 20060105; US 2006137990 A1 20060629; US 7468123 B2 20081223; WO 2004033762 A1 20040422

DOCDB simple family (application)
EP 02021402 A 20020925; AU 2003250061 A 20030715; CN 03823056 A 20030715; DE 50303610 T 20030715; EP 0307632 W 20030715; EP 03807748 A 20030715; JP 2004542263 A 20030715; US 52812505 A 20051121