

Title (en)  
ELECTROLYTE AND SURFACE-ACTIVE ADDITIVES FOR THE GALVANIC DEPOSITION OF SMOOTH, DENSE ALUMINUM LAYERS FROM IONIC LIQUIDS

Title (de)  
ELEKTROLYT UND OBERFLÄCHENAKTIVE ADDITIVE FÜR DIE GALVANISCHE ABSCHIEDUNG GLATTER, DICHTER ALUMINIUM-SCHICHTEN AUS IONISCHEN FLÜSSIGKEITEN

Title (fr)  
ÉLECTROLYTE ET ADDITIFS TENSIO-ACTIFS POUR LE DÉPÔT GALVANIQUE DE COUCHES D'ALUMINIUM LISSES ET COMPACTES À PARTIR DE LIQUIDES IONIQUES

Publication  
**EP 2419551 A2 20120222 (DE)**

Application  
**EP 10708571 A 20100316**

Priority  
• EP 2010053397 W 20100316  
• EP 09155495 A 20090318  
• EP 10708571 A 20100316

Abstract (en)  
[origin: WO2010106072A2] The invention relates to a method for the electrochemical deposition of aluminum, whereby mat or glossy dense aluminum layers can be obtained. The method comprises the following steps: (a) making an electrolytic device available, said device comprising at least one anode and at least one cathode in an electrolytic chamber, (b) electrochemically depositing the aluminum on the at least one cathode of the electrolytic device from an ionic liquid which contains anions and cations, as well as one or more metal salt(s), and one or more additive(s), a current density of at least 50 A/m<sup>2</sup> being applied to the at least one cathode.

IPC 8 full level  
**C25D 3/44** (2006.01); **C25D 3/66** (2006.01)

CPC (source: EP US)  
**C25D 3/665** (2013.01 - EP US); **C25D 5/44** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010106072A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA ME RS

DOCDB simple family (publication)  
**WO 2010106072 A2 20100923; WO 2010106072 A3 20110901**; EP 2419551 A2 20120222; US 2012006688 A1 20120112

DOCDB simple family (application)  
**EP 2010053397 W 20100316**; EP 10708571 A 20100316; US 201013257092 A 20100316