

Title (en)  
METHOD FOR PRODUCTION OF A COATING

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER BESCHICHTUNG

Title (fr)  
PROCEDE DE PRODUCTION D'UN REVETEMENT

Publication  
**EP 1743053 B1 20120829 (DE)**

Application  
**EP 05747427 A 20050502**

Priority  
• DE 2005000811 W 20050502  
• DE 102004021926 A 20040504

Abstract (en)  
[origin: WO2005108651A2] The invention relates to a method for production of a corrosion-resistant and/or oxidation-resistant coating, whereby at least one metal of the platinum group, in particular, platinum and/or palladium, or an alloy made from at least one metal of the platinum group, is deposited on the surface of a substrate by galvanisation and, subsequently, the substrate thus galvanically coated is subjected to an alitising process. In a first embodiment of the invention, the galvanic deposition of the metal(s) of the platinum group, or the corresponding alloy, is carried out in an at least two-stage process, whereby in a first stage of the deposition process, a current, applied for galvanisation, is continuously or incrementally increased from an initial value to a maximum value and, in a second stage of the deposition process, the current applied for galvanisation, is held constant at the maximum value. In a second embodiment of the invention, the galvanic deposition of the metal(s) of the platinum group or the corresponding alloy, is carried out using an open-celled, open-mesh or porous anode, whereby, during the galvanic deposition, a relative movement is established between a galvanic bath and the substrate and the open-celled, open-mesh or porous anode(s). An embodiment in which both aspects of the invention are combined is preferred.

IPC 8 full level  
**C25D 3/50** (2006.01); **C23C 10/02** (2006.01); **C25D 5/04** (2006.01); **C25D 5/08** (2006.01); **C25D 5/18** (2006.01); **C25D 17/10** (2006.01)

CPC (source: EP US)  
**C23C 10/02** (2013.01 - EP US); **C25D 3/50** (2013.01 - EP US); **C25D 5/04** (2013.01 - EP US); **C25D 5/08** (2013.01 - EP US); **C25D 5/18** (2013.01 - EP US); **C25D 17/10** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 2005108651 A2 20051117; WO 2005108651 A3 20070322**; DE 102004021926 A1 20051201; EP 1743053 A2 20070117; EP 1743053 B1 20120829; US 2008035486 A1 20080214; US 7771578 B2 20100810

DOCDB simple family (application)  
**DE 2005000811 W 20050502**; DE 102004021926 A 20040504; EP 05747427 A 20050502; US 57972107 A 20070124