

Title (en)

Process for preparing modified oxide ceramic coatings on barrier-layer metals.

Title (de)

Verfahren zur Erzeugung von ggf. modifizierten Oxidkeramiksichten auf sperrschichtbildenden Metallen.

Title (fr)

Procédé de préparation d'une couche d'oxyde céramique modifiée sur des métaux formant couche barrière.

Publication

EP 0545230 B2 20030312 (DE)

Application

EP 92120006 A 19921125

Priority

DE 4139006 A 19911127

Abstract (en)

[origin: EP0545230A1] In order to enhance the thickness and wear resistance of oxide-ceramic coatings on barrier-layer metals, a plasmachemical anodic oxidation in a chloride-free electrolyte bath is carried out at a pH from 2 to 8 and constant bath temperature, using a constant current density of at least 1 A/dm², until the voltage settles at a final value. Thus it is possible to generate, on objects made of aluminium or aluminium alloys, an oxide-ceramic coating which consists of corundum, and even on magnesium or titanium, coating thicknesses of up to 150 µm are achieved.

IPC 1-7

C25D 11/02

IPC 8 full level

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CPC (source: EP US)

C25D 11/026 (2013.01 - EP US); **C25D 11/04** (2013.01 - EP US); **C25D 11/26** (2013.01 - EP US); **C25D 11/30** (2013.01 - EP US)

Cited by

DE202008010896U1; EP0867530A1; EP2273181A3; DE102005040648A1; DE19516815A1; DE102006051709A1; CN103556204A; DE102014219819A1; DE102004057403A1; DE102004057403B4; DE19506656A1; DE19506656B4; US8119243B2; US7323221B2; WO2005078164A3; WO9840541A1; WO2016086914A3; EP2857560A1; DE102013110660A1; WO2005078164A2; US7780838B2; WO2011006932A1; WO2009147044A1; WO2004092436A3

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