

Title (en)

PROCESS FOR MANUFACTURING OXIDE-CERAMIC SURFACE COATINGS ON SILICON CONTAINING LIGHT METAL CASTING ALLOYS

Publication

EP 0514661 A3 19930428 (DE)

Application

EP 92106272 A 19920410

Priority

DE 4116910 A 19910521

Abstract (en)

[origin: EP0514661A2] In a process for manufacturing white and black oxide-ceramic surface coatings on silicon-containing light-metal casting alloys by plasma-chemical anodic oxidation, an aluminium casting alloy is picked in nitric acid and hydrofluoric acid and coated in an aqueous electrolyte by plasma-chemical anodic oxidation. <??>Consequently a coating variant, in particular for structural parts of complicated shape and made of silicon-containing light-metal casting alloys, is provided which, in contrast to conventional coating variants, makes it possible to produce uniformly thin, oxide-ceramic surface coatings.

IPC 1-7

C25D 11/04

IPC 8 full level

C25D 11/04 (2006.01); **C25D 11/16** (2006.01)

CPC (source: EP US)

C25D 11/024 (2013.01 - EP US); **C25D 11/026** (2013.01 - EP US); **C25D 11/04** (2013.01 - EP US); **C25D 11/16** (2013.01 - EP US)

Citation (search report)

- [A] EP 0280886 A1 19880907 - KARL MARX STADT TECH HOCHSCHUL [DD]
- [A] GB 618202 A 19490217 - HUMBER LTD, et al

Cited by

CN114108051A; DE19506656A1; DE19506656B4

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

EP 0514661 A2 19921125; EP 0514661 A3 19930428; DE 4116910 A1 19921126; US 5225069 A 19930706

DOCDB simple family (application)

EP 92106272 A 19920410; DE 4116910 A 19910521; US 88469192 A 19920518