

Title (en)

Process for producing multilayer coating with high abrasion resistance

Title (de)

Verfahren zur Herstellung einer mehrlagigen Beschichtung mit hoher Abriebfestigkeit

Title (fr)

Procédé de fabrication d'un revêtement multicouche à haute résistance à l'abrasion

Publication

EP 1548153 B1 20081015 (EN)

Application

EP 04106968 A 20041223

Priority

IT RM20030602 A 20031224

Abstract (en)

[origin: EP1548153A2] Procedure to obtain multilayer coatings with high wear resistance, in particular for light alloy metal materials and for metal matrix composite materials, wherein the material to be coated is subjected to the following operations: a) surface deposition, using thermal spray techniques, of a first cermet coating, with thickness ranging from 20 to 600 µm; b) surface finishing treatment; c) deposition on the first coating, using vapour phase deposition techniques, of a second nitride or carbon coating, with thickness ranging from 1 to 10 µm.

IPC 8 full level

C23C 28/00 (2006.01); **C23C 26/00** (2006.01); **F16H 55/06** (2006.01)

CPC (source: EP)

C23C 26/00 (2013.01); **C23C 28/324** (2013.01); **C23C 28/34** (2013.01); **C23C 28/347** (2013.01)

Cited by

CN108531907A; CN115319096A; US2012077657A1; CN109750247A; CN110616396A; CN112111737A; CN112358905A; CN112593213A; CN114134464A; CN109338264A; US2014212636A1; US9682531B2; DE102009010110B4; FR3089235A1; EP1997937A1; CN101838808A; RU2493813C2; CN108611590A; CN107034430A; CN115125470A; CN105734555A; CN111411318A; US11008653B2; US8739773B2; WO2016057481A1; WO2018013909A1; WO2008141850A1; WO2008007165A1; US8460796B2; WO2010094256A1; DE102009010110A1; WO2010123612A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1548153 A2 20050629; **EP 1548153 A3 20070124**; **EP 1548153 B1 20081015**; AT E411413 T1 20081015; DE 602004017110 D1 20081127; IT RM20030602 A1 20050625

DOCDB simple family (application)

EP 04106968 A 20041223; AT 04106968 T 20041223; DE 602004017110 T 20041223; IT RM20030602 A 20031224