

Title (en)
Method for manufacturing a coating

Title (de)
Verfahren zur Herstellung einer Beschichtung

Title (fr)
Procédé de fabrication d'un revêtement

Publication
EP 1967601 A3 20110427 (DE)

Application
EP 08002244 A 20080207

Priority
DE 102007010698 A 20070306

Abstract (en)
[origin: EP1967601A2] Coating method comprises thermal spraying simultaneously with 92 - 95 wt% of an iron alloy and 0.5 - 8 wt% of boron carbide. The alloy contains 5 - 25 wt% of chromium and 0.5 - 5 wt% of molybdenum. Independent claims are included for: (A) coatings produced using the method; (B) the coatings when applied to the contact surfaces of cylinders in light metal engine blocks; (C) and apparatus for carrying out the method comprising a spray head (2) with a feed system for two iron alloy wires (4, 5) which allow an arc to be formed, a nozzle (11), through which gas (12, 13) is fed and a feed (14) for boron carbide powder.

IPC 8 full level
C23C 4/06 (2006.01); **C22C 38/22** (2006.01); **C23C 4/10** (2006.01); **C23C 4/12** (2006.01)

CPC (source: EP)
C22C 38/22 (2013.01); **C23C 4/06** (2013.01); **C23C 4/067** (2016.01); **C23C 4/10** (2013.01); **C23C 4/131** (2016.01)

Citation (search report)
• [XAY] DE 10306919 B4 20060817 - DAIMLER CHRYSLER AG [DE]
• [YA] DE 4411296 C2 19951221 - CASTOLIN SA [CH]
• [YA] EP 0246596 B1 19930519
• [YA] DE 4447514 C2 19960725 - CASTOLIN SA [CH]
• [IA] WO 2004111290 A1 20041223 - SEITZ MICHAEL WALTER [US]
• [A] FR 2177134 A5 19731102 - BRITISH INSULATED CALLENDERS [GB]
• [A] DE 2356616 A1 19740522 - UNION CARBIDE CORP
• [A] EP 1209246 A2 20020529 - OSU MASCHB GMBH [DE], et al
• [X] JP S63121648 A 19880525 - TOYOTA MOTOR CORP
• [X] EP 0493695 B1 19961204 - CASTOLIN SA [CH]
• [X] EP 0051869 A1 19820519 - METALLISATION LTD [GB]

Cited by
DE102009019674B4; CN106102988A; RU2627526C2; CN112708883A; US9382868B2; US9079213B2; DE102011015533A1; US8833331B2; US10017845B2; WO2015135618A1; WO2014019723A1; US10221806B2; DE102011085324A1; WO2013060552A1; DE102011084608A1; WO2013056961A1; US10220453B2; EP2597170A1; DE102011086803A1; US8877285B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 1967601 A2 20080910; EP 1967601 A3 20110427; EP 1967601 B1 20130807; DE 102007010698 A1 20080911

DOCDB simple family (application)
EP 08002244 A 20080207; DE 102007010698 A 20070306