

Title (en)  
COATING AND SURFACE REPAIR METHOD

Title (de)  
BESCHICHTUNGS- UND OBERFLÄCHENREPARATURVERFAHREN

Title (fr)  
PROCÉDÉ DE RÉPARATION DE REVÊTEMENT ET DE SURFACE

Publication  
**EP 3154714 A4 20171220 (EN)**

Application  
**EP 15815119 A 20150416**

Priority  
• US 201462012634 P 20140616  
• US 2015026131 W 20150416

Abstract (en)  
[origin: WO2016003522A2] A coating and surface repair method is provided. The method includes positioning a high velocity air fuel (HVOF) gun proximate to a damaged hardened steel surface and forming a ceramic metallic coating on the damaged hardened steel surface by executing an HVOF thermal spray process using the HVOF gun.

IPC 8 full level  
**B23P 6/00** (2006.01); **C23C 4/06** (2016.01); **C23C 4/08** (2016.01); **C23C 4/12** (2016.01); **C23C 4/123** (2016.01)

CPC (source: EP US)  
**B23P 6/00** (2013.01 - EP US); **C23C 4/06** (2013.01 - EP US); **C23C 4/08** (2013.01 - EP US); **C23C 4/10** (2013.01 - US); **C23C 4/12** (2013.01 - EP US); **C23C 4/123** (2016.01 - EP US); **C23C 4/129** (2016.01 - EP US)

Citation (search report)  
• [X1] CN 102343497 A 20120208 - MAANSHAN HENGYI MACHINERY CO LTD  
• [X1] VERSTAK A ET AL: "High velocity air-fuel spraying and its applications in oil and gas industry", PROCEEDINGS OF THE INTERNATIONAL THERMAL SPRAY CONFERENCE - INTERNATIONAL THERMAL SPRAY CONFERENCE AND EXPOSITION, ITSC 2012 - AIR, LAND, WATER AND THE HUMAN BODY: THERMAL SPRAY SCIENCE AND APPLICATIONS 2012 ASM INTERNATIONAL USA, 2012, pages 529 - 534, XP002775065  
• [I] VUORISTO ET AL: "High velocity sprays boost hardmetal industrial coatings", METAL POWDER REPORT, vol. 62, no. 3, 1 March 2007 (2007-03-01), MPR PUBLISHING SERVICES, SHREWSBURY, GB, pages 22 - 26,28, XP022008571, ISSN: 0026-0657, DOI: 10.1016/S0026-0657(07)70063-2  
• See references of WO 2016003522A2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**WO 2016003522 A2 20160107**; **WO 2016003522 A3 20160303**; EP 3154714 A2 20170419; EP 3154714 A4 20171220; US 2017114439 A1 20170427

DOCDB simple family (application)  
**US 2015026131 W 20150416**; EP 15815119 A 20150416; US 201515317804 A 20150416