

Title (en)
METHOD FOR PRODUCING A CYLINDER LINER

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER ZYLINDERLAUFBUCHSE

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE CHEMISE DE CYLINDRE

Publication
EP 2880193 A1 20150610 (DE)

Application
EP 13720893 A 20130429

Priority
• DE 102012015405 A 20120803
• EP 2013058857 W 20130429

Abstract (en)
[origin: WO2014019723A1] The invention relates to a method for manufacturing a thermically sprayed, thin-walled cylinder liner for inserting into an engine block and an engine block produced by said method.

IPC 8 full level
B22D 19/00 (2006.01); **B22D 19/16** (2006.01); **B22D 21/04** (2006.01); **B22D 23/00** (2006.01); **C23C 4/02** (2006.01); **C23C 4/067** (2016.01); **C23C 4/08** (2016.01); **C23C 4/18** (2006.01); **C23C 30/00** (2006.01); **F02F 1/00** (2006.01)

CPC (source: CN EP KR RU US)
B22D 19/0009 (2013.01 - EP US); **B22D 19/16** (2013.01 - EP US); **B22D 21/04** (2013.01 - EP US); **B22D 23/003** (2013.01 - EP US); **C23C 4/02** (2013.01 - CN EP KR US); **C23C 4/067** (2016.01 - EP KR US); **C23C 4/08** (2013.01 - CN EP KR US); **C23C 4/123** (2016.01 - KR); **C23C 4/18** (2013.01 - CN EP US); **C23C 4/185** (2013.01 - CN EP KR US); **C23C 30/00** (2013.01 - CN EP KR US); **F02F 1/004** (2013.01 - CN EP KR US); **C23C 4/08** (2013.01 - RU); **C23C 4/185** (2013.01 - RU); **F02F 1/00** (2013.01 - RU); **Y10T 29/49272** (2015.01 - EP US)

Citation (search report)
See references of WO 2014019723A1

Cited by
CN107971473A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014019723 A1 20140206; BR 112014027035 A2 20170627; BR 112014027035 B1 20201110; CN 104321457 A 20150128; CN 110306146 A 20191008; DE 102012015405 A1 20140206; DE 102012015405 B4 20140703; EP 2880193 A1 20150610; EP 2880193 B1 20180221; JP 2015526596 A 20150910; JP 6329146 B2 20180523; KR 102048454 B1 20200108; KR 20150038580 A 20150408; PL 2880193 T3 20180831; RU 2015104564 A 20160920; RU 2627526 C2 20170808; US 10017845 B2 20180710; US 2015218687 A1 20150806

DOCDB simple family (application)
EP 2013058857 W 20130429; BR 112014027035 A 20130429; CN 201380027301 A 20130429; CN 201910570666 A 20130429; DE 102012015405 A 20120803; EP 13720893 A 20130429; JP 2015524683 A 20130429; KR 20157005581 A 20130429; PL 13720893 T 20130429; RU 2015104564 A 20130429; US 201314419430 A 20130429