

Title (en)
CYLINDER JACKET AND METHOD FOR PRODUCING THE SAME

Title (de)
ZYLINDERLAUFBUCHSE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
CHEMISE DE CYLINDRE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2185744 B1 20120425 (DE)

Application
EP 08801215 A 20080823

Priority
• DE 2008001392 W 20080823
• DE 102007041519 A 20070831

Abstract (en)
[origin: US2010263765A1] The invention relates to a method for producing a cylinder jacket, comprising the following steps: producing a cylindrical starting product from a steel material having a carbon content of not more than 0.8% by weight and a ferritic or ferritic/pearlitic structure; enriching, by carburization, the surface layer of the inner peripheral surface of the cylindrical starting product with carbon in the form of carbides that are deposited on the grain boundaries; slowly cooling the cylindrical starting product in such a manner that a pearlitic structure having a carbide network is formed in the surface layer; finishing the cylindrical starting product to give a cylinder jacket. The invention also relates to a cylinder jacket produced by said method.

IPC 8 full level
C23C 8/02 (2006.01); **B23K 26/21** (2014.01); **C23C 8/22** (2006.01); **C23C 8/32** (2006.01); **C23C 8/46** (2006.01); **C23C 8/56** (2006.01); **C23C 8/66** (2006.01); **C23C 8/76** (2006.01); **C23C 8/80** (2006.01)

CPC (source: EP US)
C23C 8/02 (2013.01 - EP US); **C23C 8/22** (2013.01 - EP US); **C23C 8/32** (2013.01 - EP US); **C23C 8/46** (2013.01 - EP US); **C23C 8/56** (2013.01 - EP US); **C23C 8/66** (2013.01 - EP US); **C23C 8/76** (2013.01 - EP US); **C23C 8/80** (2013.01 - EP US)

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

DOCDB simple family (publication)
US 2010263765 A1 20101021; **US 8394207 B2 20130312**; AT E555227 T1 20120515; BR PI0816171 A2 20150224; DE 102007041519 A1 20090305; EP 2185744 A2 20100519; EP 2185744 B1 20120425; JP 2010539322 A 20101216; WO 2009026897 A2 20090305; WO 2009026897 A3 20090507

DOCDB simple family (application)
US 73339208 A 20080823; AT 08801215 T 20080823; BR PI0816171 A 20080823; DE 102007041519 A 20070831; DE 2008001392 W 20080823; EP 08801215 A 20080823; JP 2010522181 A 20080823