

Title (en)

ENGINE COMPONENT COMPRISING CORROSION-PROTECTION LAYER AND MANUFACTURING METHOD

Title (de)

MOTORKOMPONENTE UMFASSEND EINE KORROSIONSSCHUTZSCHICHT UND HERSTELLUNGSVERFAHREN

Title (fr)

COMPOSANT DE MOTEUR COMPRENANT UNE COUCHE ANTICORROSION ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2443266 A1 20120425 (EN)

Application

EP 10789819 A 20100614

Priority

- SE 2010050661 W 20100614
- SE 0950464 A 20090616

Abstract (en)

[origin: WO2010147541A1] The invention relates to an engine valve comprising a chromiferous steel and a protective surface layer (5) which consists of iron chrome oxide. The invention relates further to a method for manufacture of an engine valve with a protective layer characterised in that: -an engine component comprising a chromiferous steel is provided (100); -the engine component is heated (200) at a predetermined temperature for a predetermined time so that a layer (5) of iron chrome oxide is formed on the engine component's surface; -the engine component is cooled (300) to room temperature.

IPC 8 full level

C23C 8/14 (2006.01); **C23C 8/10** (2006.01); **C23F 15/00** (2006.01); **F01L 3/00** (2006.01)

CPC (source: EP SE US)

C23C 8/10 (2013.01 - EP SE US); **C23C 8/14** (2013.01 - EP SE US); **C23C 8/18** (2013.01 - SE); **F01L 3/04** (2013.01 - EP US); **F01L 3/08** (2013.01 - EP US); **F01L 2301/00** (2020.05 - EP US)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010147541 A1 20101223; BR PI1009662 A2 20160315; CN 102459686 A 20120516; EP 2443266 A1 20120425; EP 2443266 A4 20121226; EP 2443266 B1 20180418; RU 2012101273 A 20130727; RU 2494168 C2 20130927; SE 0950464 A1 20101217; SE 533842 C2 20110201; US 2012085310 A1 20120412

DOCDB simple family (application)

SE 2010050661 W 20100614; BR PI1009662 A 20100614; CN 201080026785 A 20100614; EP 10789819 A 20100614; RU 2012101273 A 20100614; SE 0950464 A 20090616; US 201013378415 A 20100614