

Title (en)
Article protected against high temperature corrosion and reciprocating piston internal combustion engine or turbine or combustion unit containing the article

Title (de)
Werkstück mit einem Schutz gegen Hochtemperaturkorrosion, sowie Hubkolbenbrennkraftmaschine, Turbine oder Verbrennungsanlage mit einem solchen Werkstück

Title (fr)
Pièce protégée contre la corrosion à haute température et moteur

Publication
EP 1752561 A1 20070214 (DE)

Application
EP 06405297 A 20060711

Priority
• EP 06405297 A 20060711
• EP 05405469 A 20050810

Abstract (en)
Workpiece protected against high temperature corrosion by the presence of a low melting vanadium phase with a surface edge layer including one of: Ca, Mg, Ta, Y, Na, Zn, Pb, Si, Ni and Co, so that in use because of chemical reaction between one of these elements and the vanadium and/or vanadium compounds and/or a low melting vanadium phase a high melting vanadium phase is formed and formation of a low melting vanadium phase is prevented. An independent claim is included for an internal combustion engine, especially a large two-stroke diesel engine (sic), turbine or refuse incineration unit (sic) involving the above workpiece.

IPC 8 full level
C23C 30/00 (2006.01); **C23C 4/06** (2016.01); **F01N 13/16** (2010.01); **F02B 77/02** (2006.01); **F02B 77/04** (2006.01)

CPC (source: EP)
C23C 4/04 (2013.01); **C23C 4/08** (2013.01); **C23C 26/02** (2013.01); **C23C 30/00** (2013.01); **F01D 5/286** (2013.01); **F01D 5/288** (2013.01); **F02B 77/02** (2013.01); **F02B 77/04** (2013.01); **F23G 5/48** (2013.01); **F23M 5/00** (2013.01); **F23R 3/002** (2013.01); **F05D 2220/40** (2013.01); **F05D 2230/90** (2013.01); **F23M 2900/05004** (2013.01)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1752561 A1 20070214; CN 1912183 A 20070214; JP 2007046163 A 20070222

DOCDB simple family (application)
EP 06405297 A 20060711; CN 200610114844 A 20060809; JP 2006216422 A 20060809