

Title (en)
Large diesel engine protected against high temperature corrosion and use of an alloy in a large diesel engine for protecting against high temperature corrosion.

Title (de)
Grossdieselmotor mit einem Schutz gegen Hochtemperaturkorrosion, sowie die Verwendung einer Legierung im Grossdieselmotor als Hochtemperaturkorrosionsschutz.

Title (fr)
Grand moteur diesel protégé contre la corrosion à haute température et utilisation d'un alliage dans un grand moteur diesel pour protéger contre la corrosion à haute température.

Publication
EP 1752560 A1 20070214 (DE)

Application
EP 06405296 A 20060711

Priority
• EP 06405296 A 20060711
• EP 05405468 A 20050810

Abstract (en)
Workpiece with a protective coating against high temperature corrosion consisting of a CuNi alloy with impurities. An independent claim is included for an internal combustion engine, e.g, a large two-stroke (sic) diesel engine, turbine or other internal combustion engine.

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

CPC (source: EP KR)
C22C 19/03 (2013.01 - KR); **C23C 4/06** (2013.01 - EP); **C23C 30/00** (2013.01 - EP); **F02B 77/02** (2013.01 - EP); **F02B 77/04** (2013.01 - EP); **F05C 2201/0484** (2013.01 - EP)

Citation (search report)
• [X] GB 2196023 A 19880420 - NL PETROLEUM SERVICES
• [X] EP 0816660 A1 19980107 - KS ALUMINIUM TECHNOLOGIE AG [DE]
• [X] US 5601933 A 19970211 - HAJMRLE KAREL [CA], et al
• [X] US 5496391 A 19960305 - NOEL LEON [FR]
• [A] US 4019900 A 19770426 - RAGHAVAN MATHUR, et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 368 (E - 0962) 9 August 1990 (1990-08-09)
• [X] MALIK ANEES UDDIN ET AL: "HOT CORROSION BEHAVIOUR OF SOME INDUSTRIALLY IMPORTANT NICKEL-BASE ALLOYS IN PRESENCE OF H₂SO₄(S) AND NaCl(S).", Z METALLKD MAY 1988, vol. 79, no. 5, May 1988 (1988-05-01), pages 285 - 295, XP009059497
• [A] SCHLAGER D: "MATERIALABTRAG AN KOLBEN VON GROSSDIESELMOTOREN", MTZ MOTORTECHNISCHE ZEITSCHRIFT, VIEWEG VERLAG, WIESBADEN, DE, vol. 55, no. 5, 1 May 1994 (1994-05-01), pages 300 - 307, XP000439563, ISSN: 0024-8525
• [A] SCHLAGER, D. ET AL: "Protection against high temperature corrosion with laser welded claddings - applied and tested on exhaust valve discs of large diesel engines burning heavy fuel oil", MATERIALS AND CORROSION, 53(2), 103-110 CODEN: MTCREQ; ISSN: 0947-5117, 2002, XP002361318

Cited by
CN102428258A; EP2182094A1

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 1752560 A1 20070214; **EP 1752560 B1 20100630**; AT E472618 T1 20100715; CN 1912163 A 20070214; CN 1912163 B 20110608; DE 502006007310 D1 20100812; DK 1752560 T3 20101025; JP 2007051372 A 20070301; JP 5052838 B2 20121017; KR 101365928 B1 20140220; KR 20070018678 A 20070214; KR 20140003356 A 20140109

DOCDB simple family (application)
EP 06405296 A 20060711; AT 06405296 T 20060711; CN 200610114846 A 20060809; DE 502006007310 T 20060711; DK 06405296 T 20060711; JP 2006216420 A 20060809; KR 20060072223 A 20060731; KR 20130146309 A 20131128