

Title (en)

STEEL COMPOSITION, METHOD FOR MAKING SAME AND PARTS PRODUCED FROM SAID COMPOSITIONS, PARTICULARLY VALVES

Title (de)

STAHLZUSAMMENSETZUNG, HERSTELLUNGSVERFAHREN UND HERGESTELLTE FORMTEILE AUS DIESEN ZUSAMMENSETZUNGEN
INSBESONDERE VENTILEN

Title (fr)

COMPOSITION D'ACIER, PROCEDE DE FABRICATION ET PIECES FORMEES DANS CES COMPOSITIONS, EN PARTICULIER SOUPAPES

Publication

EP 1228253 A1 20020807 (FR)

Application

EP 01931816 A 20010507

Priority

- FR 0101388 W 20010507
- FR 0005967 A 20000510

Abstract (en)

[origin: WO0186009A1] The invention concerns a steel composition comprising, expressed in weight percentages: 0.25-0.35 % of C, 24-28 % of Cr, 10-15 % of Ni, 3-6 % of Mn, 1.75-2.50 % of Nb, 0.50-0.70 % of N, 0-0.30 % of Si, provided that C+N >= 0.8 %, the rest consisting mainly of iron and unavoidable impurities. The invention also concerns a method for making said compositions and valves produced from said compositions or using said method and exhibiting excellent mechanical strength and oxidation resistance at temperatures between 800 and 900 DEG C.

IPC 1-7

C21D 6/00; **C22C 38/58**; **C22C 38/48**

IPC 8 full level

F01L 3/02 (2006.01); **C21D 6/00** (2006.01); **C21D 8/06** (2006.01); **C21D 9/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/48** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP US)

C21D 6/004 (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP US)

Citation (search report)

See references of WO 0186009A1

Cited by

EP3575430A1; US10927439B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0186009 A1 20011115; AT E299953 T1 20050815; AU 5850901 A 20011120; BR 0106337 A 20020402; BR 0106337 B1 20140930; DE 60112032 D1 20050825; DE 60112032 T2 20060720; EP 1228253 A1 20020807; EP 1228253 B1 20050720; EP 1228253 B8 20050921; ES 2248325 T3 20060316; FR 2808807 A1 20011116; FR 2808807 B1 20020719; JP 2003532795 A 20031105; JP 5288674 B2 20130911; MX PA02000345 A 20040521; US 2003044304 A1 20030306; US 6656418 B2 20031202

DOCDB simple family (application)

FR 0101388 W 20010507; AT 01931816 T 20010507; AU 5850901 A 20010507; BR 0106337 A 20010507; DE 60112032 T 20010507; EP 01931816 A 20010507; ES 01931816 T 20010507; FR 0005967 A 20000510; JP 2001582596 A 20010507; MX PA02000345 A 20010507; US 3086002 A 20020509