

Title (en)

AUSTENITIC HEAT-RESISTANT NICKEL-BASE ALLOY

Title (de)

AUSTENITISCHE WARMFESTE NICKEL-BASIS-LEGIERUNG

Title (fr)

ALLIAGE AUSTÉNITIQUE À BASE DE NICKEL RÉSISTANT À LA CHALEUR

Publication

**EP 2227572 B1 20160127 (DE)**

Application

**EP 08865541 A 20081125**

Priority

- DE 2008001964 W 20081125
- DE 102007062417 A 20071220

Abstract (en)

[origin: WO2009079972A1] Austenitic heat-resistant nickel-base alloy comprising (in % by mass) 0.03-0.1% of C, 28-32% of Cr, 0.01-0.5% of Mn, 0.01-0.3% of Si, 0.01-1.0% of Mo, 2.5-3.2% of Ti, 0.01-0.5% of Nb, 0.01-0.5% of Cu, 0.05-2.0% of Fe, 0.7-1.0% of Al, 0.001-0.03% of Mg, 0.01-1.0% of Co, 0.01-0.10% of Hf, 0.01-0.10% of Zr, 0.002-0.02% of B, 0.001-0.01% of N, max. 0.01% of S, max. 0.005% of Pb, max. 0.0005% of Bi, max. 0.01% of Ag, balance Ni and minor components due to the production method, where the sum of Ti + Al is from 3.3 to 4.3%, the sum of C + (10 OE) is from 0.05 to 0.2%, the sum of Hf + Zr is from 0.05 to 0.15% and the Ti/Al ratio is > 3.

IPC 8 full level

**C22C 19/05** (2006.01)

CPC (source: EP US)

**C22C 19/055** (2013.01 - EP US); **C22C 19/058** (2013.01 - EP US)

Cited by

EP3620628A1

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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)

**DE 102007062417 A1 20090625**; **DE 102007062417 B4 20110714**; CN 101896630 A 20101124; EP 2227572 A1 20100915; EP 2227572 B1 20160127; JP 2011506771 A 20110303; KR 101236222 B1 20130222; KR 20100083847 A 20100722; US 2010310412 A1 20101209; WO 2009079972 A1 20090702

DOCDB simple family (application)

**DE 102007062417 A 20071220**; CN 200880119914 A 20081125; DE 2008001964 W 20081125; EP 08865541 A 20081125; JP 2010538321 A 20081125; KR 20107013401 A 20081125; US 80861208 A 20081125