

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

Designated contracting state (EPC)
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