

Title (en)

Low-density directionally solidified single-crystal superalloys

Title (de)

Direktrial verdichtete Einkristall-Superlegierungen mit geringer Dichte

Title (fr)

Superalliages monocristallins solidifiés directionnellement à faible densité

Publication

**EP 1927669 B1 20140820 (EN)**

Application

**EP 07380330 A 20071128**

Priority

ES 200603079 A 20061201

Abstract (en)

[origin: EP1927669A1] The present invention relates to a low-density nickel-base superalloy comprising the following elements (percent by weight): 7-13% Chromium, 0-16% Cobalt, 2-5% Titanium, 4.5-7% Aluminium, 0-5% Tantalum, 0-2% Hafnium, 0-3% Tungsten, 0-2% Vanadium, 0-5% Molybdenum, 0.06-0.12% Carbon, 0.01-0.03% Boron, 0.005-0.02% Zirconium, nickel and residual impurities, to its use and to the process for obtaining it.

IPC 8 full level

**C22C 19/05** (2006.01)

CPC (source: EP ES US)

**C22C 19/056** (2013.01 - EP ES US); **C22C 19/057** (2013.01 - EP US); **C22F 1/10** (2013.01 - ES); **F01D 5/286** (2013.01 - ES)

Cited by

EP2216420A3; CN109022923A; EP3299481A4; FR3125067A1; US8216509B2; US11859267B2; WO2023281205A1

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DOCDB simple family (publication)

**EP 1927669 A1 20080604; EP 1927669 B1 20140820**; AU 2007237291 A1 20080619; CA 2612815 A1 20080601; ES 2269013 A1 20070316; ES 2269013 B2 20071101; ES 2524249 T3 20141204; US 2008240972 A1 20081002

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