

Title (en)
Nickel-base superalloy

Title (de)
Nickel-Basis-Superlegierung

Title (fr)
Superalliage à base de nickel

Publication
EP 1420075 B1 20060222 (DE)

Application
EP 03104108 A 20031106

Priority
US 29139202 A 20021112

Abstract (en)
[origin: US6706241B1] The invention relates to a nickel-base superalloy for producing single-crystal components. The alloy according to the invention is characterized by the following chemical composition (details in % by weight): 7-13 Cr, 4-10 Co, 0.5-2 Mo, 2-8 W, 4-6 Ta, 3-6 Al, 1-4 Ti, 0.1-6 Ru, 0.01-0.5 Hf, 0.001-0.15 Si, 0-700 ppm C, 0-300 ppm B, remainder Ni and production-related impurities.

IPC 8 full level
C22C 19/05 (2006.01); **C30B 11/00** (2006.01); **C30B 29/52** (2006.01); **F01D 5/28** (2006.01); **F02C 7/00** (2006.01)

CPC (source: EP US)
C22C 19/056 (2013.01 - EP US); **C22C 19/057** (2013.01 - EP US)

Cited by
EP2145968A1; US8431073B2; WO2010006974A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
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