

Title (en)

Single crystal nickel-based superalloy with high solvus gamma prime phase

Title (de)

Monokristalline Superlegierung auf Nickelbasis mit hoher Gamma-prime-phase

Title (fr)

Superaliage monocristallin à base de nickel à haut solvus phase gamma prime

Publication

EP 0971041 B1 20021002 (FR)

Application

EP 99401533 A 19990621

Priority

FR 9808693 A 19980707

Abstract (en)

[origin: EP0971041A1] A nickel base superalloy, having specified contents of rhenium and ruthenium, is new. A nickel base superalloy has the composition (by wt.) 3.5-7.5% Cr, 0-1.5% Mo, 1.5-5.5% Re, 0-5.5% Ru, 3.5-8.5% W, 5-6.5% Al, 0-2.5% Ti, 4.5-9% Ta, 0.08-0.12% Hf, 0.08-0.12% Si, balance Ni and impurities.

IPC 1-7

C22C 19/05; **C30B 11/00**

IPC 8 full level

C22F 1/10 (2006.01); **C22C 19/05** (2006.01); **C22F 1/00** (2006.01)

CPC (source: EP)

C22C 19/057 (2013.01)

Cited by

GB2540964A; FR3091709A1; EP1568794A4; CN114080467A; EP1580285A4; RU2482205C1; FR3057880A1; CN109963955A; RU2749981C2; EP1975261A1; FR2914319A1; WO2013150189A1; US7824606B2; US8877122B2; US9359658B2; US8968643B2; US11268170B2; GB2439071A; EP1184656A1; FR2813392A1; GB2439071B; FR3092340A1; EP3693480A1; EP4394065A1; WO2020148504A1; WO2004053177A1; WO2019097163A1; US11220727B2; US6582585B2; US11873543B2; US11396685B2; US11725261B2; WO2018078269A1; WO2006104059A1; WO2020157406A1; EP3710611B1; EP1975261B1

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