

Title (en)

Ni-based single crystal super alloy

Title (de)

Monokristalline Superlegierung auf Nickelbasis

Title (fr)

Superalliage monocristallin à base de nickel

Publication

EP 1262569 B1 20050406 (EN)

Application

EP 02253782 A 20020529

Priority

- JP 2001161919 A 20010530
- JP 2002143572 A 20020517

Abstract (en)

[origin: EP1262569A1] The object of the present invention is to provide an Ni-based single crystal super alloy capable of improving strength by preventing precipitation of a TCP phase at high temperatures. This object is achieved by an Ni-based single crystal super alloy having a composition consisting of 5.0-7.0 wt% Al, 4.0-8.0 wt% Ta, 2.9-4.5 wt% Mo, 4.0-8.0 wt% W, 3.0-6.0 wt% Re, 0.01-0.50 wt% Hf, 2.0-5.0 wt% Cr, 0.1-15.0 wt% Co and 1.0-4.0 wt% Ru in terms of its weight ratio, with the remainder consisting of Ni and unavoidable impurities.

IPC 1-7

C22C 19/00

IPC 8 full level

C22C 19/05 (2006.01)

CPC (source: EP US)

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Cited by

EP1642989A3; EP1930455A4; CN112522543A; EP2128284A4; WO2009157555A1; WO2009157556A1; WO2017153087A1

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