

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)

**C22C 19/057** (2013.01 - EP US)

Cited by

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

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

**EP 1262569 A1 20021204; EP 1262569 A8 20030521; EP 1262569 B1 20050406;** CA 2387828 A1 20021130; CA 2387828 C 20090915; DE 60203562 D1 20050512; DE 60203562 T2 20060209; JP 2003049231 A 20030221; JP 3840555 B2 20061101; US 2003075247 A1 20030424

DOCDB simple family (application)

**EP 02253782 A 20020529;** CA 2387828 A 20020529; DE 60203562 T 20020529; JP 2002143572 A 20020517; US 15920202 A 20020530