

Title (en)

LOW DENSITY RHENIUM-FREE NICKEL BASE SUPERALLOY

Title (de)

RHENIUMFREIE NICKELBASIS-SUPERLEGIERUNG MIT NIEDRIGER DICHT

Title (fr)

SUPERALLIAGE À BASE DE NICKEL SANS RHÉNIUM À FAIBLE DENSITÉ

Publication

**EP 3091095 B1 20180711 (DE)**

Application

**EP 15166317 A 20150505**

Priority

EP 15166317 A 20150505

Abstract (en)

[origin: US2017058383A1] The invention relates to a substantially rhenium-free nickel base alloy showing a high creep resistance and relatively low density which comprises in % by weight: aluminum from 3.0 to 7.7, cobalt from 0 to 16.8, chromium from 3 to 11.8, molybendum from 3.1 to 11.3, tantalum from 0 to 3.9. In addition to nickel and unavoidable impurities this alloy may further comprise one or more of titanium, tungsten, carbon, phosphorus, copper, zirconium, silicon, hafnium, yttrium, niobium, and germanium.

IPC 8 full level

**C22C 19/05** (2006.01)

CPC (source: EP US)

**C22C 1/023** (2013.01 - EP US); **C22C 19/05** (2013.01 - EP US); **C22C 19/057** (2013.01 - EP US); **C22F 1/10** (2013.01 - EP US)

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