

Title (en)

HIGH-TEMPERATURE NICKEL BASED ALLOY

Title (de)

HOCHTEMPERATUR-NICKELBASISLEGIERUNG

Title (fr)

ALLIAGE A BASE DE NICKEL DE TEMPERATURE HAUTE

Publication

EP 3658695 B1 20210901 (DE)

Application

EP 18752680 A 20180724

Priority

- DE 102017007106 A 20170728
- DE 2018100663 W 20180724

Abstract (en)

[origin: WO2019020145A1] The invention relates to a high-temperature nickel-base alloy consisting of (in wt.%): C: 0.04-0.1 %, S: max. 0.01 %, N: max. 0.05 %, Cr: 24 - 28 %, Mn: max. 0.3 %, Si: max. 0.3 %, Mo: 1 - 6 %, Ti: 0.5 - 3 %, Nb: 0.001 - 0.1 %, Cu: max. 0.2 %, Fe: 0.1 - 0.7 %, P: max. 0.015 %, Al: 0.5 - 2 %, Mg: max. 0.01 %, Ca: max. 0.01 %, V: 0.01 - 0.5 %, Zr: max. 0.1 %, W: 0.2 - 2 %, Co: 17 - 21 %, B: max. 0.01 %, O: max. 0.01 %, with the rest being Ni, as well as melting-related impurities.

IPC 8 full level

C22C 19/05 (2006.01)

CPC (source: EP KR US)

C22C 19/05 (2013.01 - EP); **C22C 19/055** (2013.01 - EP KR US); **C22F 1/10** (2013.01 - KR US); **F01D 5/12** (2013.01 - KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2019020145 A1 20190131; BR 112019022793 A2 20200526; BR 112019022793 B1 20221220; CN 110914463 A 20200324; DE 102017007106 A1 20190131; DE 102017007106 B4 20200326; EP 3658695 A1 20200603; EP 3658695 B1 20210901; ES 2897323 T3 20220228; JP 2020521879 A 20200727; JP 6949144 B2 20211013; KR 102534136 B1 20230518; KR 20200019968 A 20200225; KR 20220070349 A 20220530; US 11193186 B2 20211207; US 2020172997 A1 20200604

DOCDB simple family (application)

DE 2018100663 W 20180724; BR 112019022793 A 20180724; CN 201880033862 A 20180724; DE 102017007106 A 20170728; EP 18752680 A 20180724; ES 18752680 T 20180724; JP 2019565801 A 20180724; KR 20207001546 A 20180724; KR 20227017157 A 20180724; US 201816615615 A 20180724