

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)

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