

Title (en)
HIGH-TEMPERATURE NICKEL-BASE ALLOY

Title (de)
HOCHTEMPERATUR-NICKELBASISLEGIERUNG

Title (fr)
ALLIAGE À BASE DE NICKEL À HAUTE TEMPÉRATURE

Publication
EP 3658695 A1 20200603 (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)

Citation (search report)
See references of WO 2019020145A1

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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

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