

Title (en)

AUSTENITE-BASED HEAT-RESISTANT ALLOY

Title (de)

AUSTENIT-BASIERTE HITZEBESTÄNDIGE LEGIERUNG

Title (fr)

ALLIAGE RÉSISTANT À LA CHALEUR À BASE D'AUSTÉNITE

Publication

**EP 3733913 A1 20201104 (EN)**

Application

**EP 18897323 A 20181227**

Priority

- JP 2017253350 A 20171228
- JP 2018048342 W 20181227

Abstract (en)

There is provided an austenitic heat resistant alloy having a chemical composition that contains, in mass percent: C: 0.03 to 0.25%, Si: 0.01 to 2.0%, Mn: 0.10 to 0.50%, P: 0.030% or less, S: 0.010% or less, Cr: 13.0 to 30.0%, Ni: 25.0 to 45.0%, Al: 2.5 to 4.5%, Nb: 0.01 to 2.00%, N: 0.05% or less, Ti: 0 to 0.20%, W: 0 to 6.0%, Mo: 0 to 4.0%, Zr: 0 to 0.10%, B: 0 to 0.0100%, Cu: 0 to 5.0%, REM: 0 to 0.10%, Ca: 0 to 0.050%, Mg: 0 to 0.050%, and the balance: Fe and impurities.

IPC 8 full level

**C22C 38/48** (2006.01); **C22C 38/54** (2006.01); **C23C 8/18** (2006.01)

CPC (source: EP US)

**C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C23C 8/18** (2013.01 - US); **C23C 8/18** (2013.01 - EP)

Citation (search report)

See references of WO 2019131954A1

Cited by

EP3739080A4; EP3739081A4

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3733913 A1 20201104**; CN 111542639 A 20200814; JP WO2019131954 A1 20201119; US 2021062314 A1 20210304; WO 2019131954 A1 20190704

DOCDB simple family (application)

**EP 18897323 A 20181227**; CN 201880084052 A 20181227; JP 2018048342 W 20181227; JP 2019562475 A 20181227; US 201816958550 A 20181227