

Title (en)

HEAT-RESISTANT AUSTENITIC STAINLESS STEEL HAVING EXCELLENT CYCLIC OXIDATION RESISTANCE

Title (de)

HITZEBESTÄNDIGER AUSTENITISCHER EDELSTAHL MIT AUSGEZEICHNETER CYKLISCHER OXIDATIONSBESTÄNDIGKEIT

Title (fr)

ACIER INOXYDABLE AUSTÉNITIQUE THERMORÉSISTANT PRÉSENTANT UNE EXCELLENTE RÉSISTANCE À L'OXYDATION CYCLIQUE

Publication

**EP 2708611 A4 20150408 (EN)**

Application

**EP 12782655 A 20120510**

Priority

- JP 2011106588 A 20110511
- JP 2011203604 A 20110916
- JP 2012048357 A 20120305
- JP 2012062039 W 20120510

Abstract (en)

[origin: EP2708611A1] A heat-resistant austenitic stainless steel comprising C: 0.05 to 0.2%, Si: 0.1 to 1%, Mn: 0.1 to 2.5%, Cu: 1 to 4%, Ni: 7 to 12%, Cr: 16 to 20%, Nb: 0.1 to 0.6%, Zr: 0.05 to 0.4%, Ce: 0.005 to 0.1%, Ti: 0.1 to 0.6%, B: 0.0005 to 0.005%, N: 0.001 to 0.15%, S: 0.005% or less (not including 0%), and P: 0.05% or less (not including 0%), with the balance of iron and unavoidable impurities.

IPC 8 full level

**C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/20** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)

**C21D 6/004** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/002** (2013.01 - EP KR US); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (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); **C22C 38/58** (2013.01 - EP KR US)

Citation (search report)

- [XD] JP H09165655 A 19970624 - NIPPON KOKAN KK
- [A] EP 1679387 A1 20060712 - KUBOTA KK [JP]
- [A] US 2008089803 A1 20080417 - OKADA HIROKAZU [JP], et al
- See references of WO 2012153814A1

Cited by

EP3382052A1; US10830379B2

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)

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DOCDB simple family (application)

**EP 12782655 A 20120510;** CN 201280022304 A 20120510; ES 12782655 T 20120510; JP 2012048357 A 20120305; JP 2012062039 W 20120510; KR 20137029415 A 20120510; US 201214115570 A 20120510