

Title (en)  
HEAT-RESISTANT AUSTENITIC STAINLESS STEEL HAVING EXCELLENT CYCLIC OXIDATION RESISTANCE

Title (de)  
HITZEBESTÄNDIGER AUSTENITISCHER EDELSTAHL MIT AUSGEZEICHNETER CYCLISCHER OXIDATIONSBESTÄNDIGKEIT

Title (fr)  
ACIER INOXYDABLE AUSTÉNITIQUE THERMORÉSISTANT PRÉSENTANT UNE EXCELLENTE RÉSISTANCE À L'OXYDATION CYCLIQUE

Publication  
**EP 2708611 B1 20160824 (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)

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)  
**EP 2708611 A1 20140319; EP 2708611 A4 20150408; EP 2708611 B1 20160824**; CN 103517998 A 20140115; CN 103517998 B 20160817; ES 2590465 T3 20161122; JP 2013076156 A 20130425; JP 5143960 B1 20130213; KR 20130137705 A 20131217; US 2014154128 A1 20140605; WO 2012153814 A1 20121115

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