

Title (en)
FERRITIC STAINLESS STEEL SHEET HAVING EXCELLENT HEAT RESISTANCE AND PROCESSABILITY, AND METHOD FOR PRODUCING SAME

Title (de)
FERRITISCHES EDELSTAHLBLECH MIT HERVORRAGENDER WÄRMEBESTÄNDIGKEIT UND VERARBEITBARKEIT SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
FEUILLE D'ACIER INOXYDABLE FERRITIQUE PRÉSENTANT D'EXCELLENTE RÉSISTANCE À LA CHALEUR ET APTITUDE AU TRAITEMENT, ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 2692889 A4 20141126 (EN)

Application
EP 12765258 A 20120328

Priority
• JP 2011072270 A 20110329
• JP 2012058218 W 20120328

Abstract (en)
[origin: EP2692889A1] The present invention provides ferritic stainless steel sheet which is excellent in heat resistance at 950°C and workability at ordinary temperature, that is, ferritic stainless steel sheet excellent in heat resistance and workability which is characterized by containing, by mass %, C: 0.02% or less, N: 0.02% or less, Si: over 0.1 to 1.0%, Mn: 0.5% or less, P: 0.020 to 0.10%, Cr: 13.0 to 20.0%, Nb: 0.5 to 1.0%, Cu: 1.0 to 3.0%, Mo: 1.5 to 3.5%, W: 2.0% or less, B: 0.0001 to 0.0010%, and Al: 0.01 to 1.0% and having a balance of Fe and unavoidable impurities, where Mo+W is made 2.0 to 3.5%.

IPC 8 full level
C21D 8/02 (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/32** (2006.01); **F01N 13/16** (2010.01)

CPC (source: EP KR US)
B21B 1/26 (2013.01 - KR US); **C21D 8/0205** (2013.01 - EP KR US); **C21D 8/0263** (2013.01 - EP KR US); **C21D 8/0273** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/004** (2013.01 - EP US); **C22C 38/008** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/20** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/32** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP KR US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP KR US); **F01N 13/10** (2013.01 - KR); **F01N 13/16** (2013.01 - EP KR US); **C21D 2211/005** (2013.01 - EP US); **F01N 13/10** (2013.01 - EP US); **F01N 2530/04** (2013.01 - EP US)

Citation (search report)
• [X] EP 1734143 A1 20061220 - NIPPON STEEL & SUMIKIN SST [JP]
• [A] EP 1170392 A1 20020109 - KAWASAKI STEEL CO [JP]
• [A] JP 2000313941 A 20001114 - NIPPON STEEL CORP
• See references of WO 2012133573A1

Cited by
EP3690075A4; US11339460B2; WO2022106145A1

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 2692889 A1 20140205; **EP 2692889 A4 20141126**; **EP 2692889 B1 20170621**; CN 103459639 A 20131218; JP 2012207252 A 20121025; JP 5659061 B2 20150128; KR 101557463 B1 20151006; KR 20130107371 A 20131001; US 2014023550 A1 20140123; WO 2012133573 A1 20121004

DOCDB simple family (application)
EP 12765258 A 20120328; CN 201280015852 A 20120328; JP 2011072270 A 20110329; JP 2012058218 W 20120328; KR 20137022243 A 20120328; US 201214008406 A 20120328