

Title (en)
FERRITIC STAINLESS STEEL

Title (de)
FERRITISCHER EDELSTAHL

Title (fr)
ACIER INOXYDABLE FERRITIQUE

Publication
EP 3517647 A4 20191204 (EN)

Application
EP 17883821 A 20171204

Priority
• JP 2016247334 A 20161221
• JP 2017043381 W 20171204

Abstract (en)
[origin: EP3517647A1] Provided is a ferritic stainless steel sheet excellent not only in adhesion of scale and thermal fatigue resistance but also in corrosion resistance to condensed water. The steel sheet has a chemical composition containing, by mass%, C: 0.010% or less, Si: 1.0% or less, Mn: 1.0% or less, P: 0.040% or less, S: 0.030% or less, Cr: 17.0% or more and 18.5% or less, N: 0.015% or less, Nb: 0.40% or more and 0.80% or less, Ti: 0.10% or more and 0.40% or less, Al: 0.20% or less, Ni: 0.05% or more and 0.40% or less, Co: 0.01% or more and 0.30% or less, Mo: 0.02% or more and 0.30% or less, Cu: 0.02% or more and 0.40% or less, and the balance being Fe and inevitable impurities, in which expression (1) below is satisfied. In expression (1), C% and N% respectively denote the contents (mass%) of C and N.

IPC 8 full level
C21D 6/00 (2006.01); **C21D 6/02** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/52** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR US)
C21D 6/002 (2013.01 - EP); **C21D 6/004** (2013.01 - EP); **C21D 6/007** (2013.01 - EP); **C21D 6/02** (2013.01 - EP); **C21D 8/0205** (2013.01 - EP); **C21D 8/0226** (2013.01 - EP); **C21D 8/0236** (2013.01 - EP); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/00** (2013.01 - EP); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/004** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP); **C22C 38/12** (2013.01 - US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/46** (2013.01 - EP); **C22C 38/48** (2013.01 - EP KR); **C22C 38/50** (2013.01 - EP); **C22C 38/52** (2013.01 - EP KR US); **C22C 38/54** (2013.01 - EP KR US)

Citation (search report)
• [X] EP 2857538 A1 20150408 - JFE STEEL CORP [JP]
• [A] WO 2015099459 A1 20150702 - POSCO [KR]
• [A] US 2016115562 A1 20160428 - SANTACREU PIERRE-OLIVIER [FR], et al
• [A] EP 1818421 A1 20070815 - UGINE & ALZ FRANCE [FR]
• [A] JP 2014145097 A 20140814 - NIPPON STEEL & SUMIKIN SST
• [A] JP H0219447 A 19900123 - TOSHIBA CORP
• See references of WO 2018116792A1

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 3517647 A1 20190731; **EP 3517647 A4 20191204**; CN 110088324 A 20190802; JP 6665936 B2 20200313; JP WO2018116792 A1 20181220; KR 102400403 B1 20220523; KR 20190085029 A 20190717; KR 20210062721 A 20210531; MX 2019007483 A 20190829; TW 201827624 A 20180801; TW I645051 B 20181221; US 2019316236 A1 20191017; WO 2018116792 A1 20180628

DOCDB simple family (application)
EP 17883821 A 20171204; CN 201780079113 A 20171204; JP 2017043381 W 20171204; JP 2018529681 A 20171204; KR 20197016818 A 20171204; KR 20217015167 A 20171204; MX 2019007483 A 20171204; TW 106143968 A 20171214; US 201716470343 A 20171204