

Title (en)  
FERRITIC STAINLESS STEEL

Title (de)  
FERRITISCHER EDELSTAHL

Title (fr)  
ACIER INOXYDABLE FERRITIQUE

Publication  
**EP 3517647 A1 20190731 (EN)**

Application  
**EP 17883821 A 20171204**

Priority  
• JP 2016247334 A 20161221  
• JP 2017043381 W 20171204

Abstract (en)  
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  
**C22C 38/00** (2006.01); **C21D 9/46** (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)

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