

Title (en)  
FERRITIC STAINLESS STEEL

Title (de)  
FERRITISCHER EDELSTAHL

Title (fr)  
ACIER INOXYDABLE À BASE DE FERRITE

Publication  
**EP 3719164 A4 20201007 (EN)**

Application  
**EP 19746936 A 20190125**

Priority  
• JP 2018015830 A 20180131  
• JP 2019002413 W 20190125

Abstract (en)  
[origin: EP3719164A1] A ferritic stainless steel having excellent creep resistance and thermal fatigue resistance is provided. The ferritic stainless steel has a chemical composition containing, in mass%, C: 0.020% or less, Si: 0.1 to 1.0%, Mn: 0.05 to 0.60%, P: 0.050% or less, S: 0.008% or less, Ni: 0.02 to 0.60%, Al: 0.001 to 0.25%, Cr: 18.0 to 20.0%, Nb: 0.30 to 0.80%, Mo: 1.80 to 2.50%, N: 0.015% or less, and Sb: 0.002 to 0.50%, with the balance being Fe and inevitable impurities, and satisfying the following expression (1); Nb + Mo: 2.3 to 3.0%  
(1) where Nb and Mo in expression (1) represent the contents (mass%) of the respective elements.

IPC 8 full level  
**C22C 38/44** (2006.01); **C21D 6/00** (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 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/52** (2006.01); **C22C 38/54** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR US)  
**C21D 6/00** (2013.01 - EP); **C21D 6/004** (2013.01 - EP); **C21D 8/005** (2013.01 - US); **C21D 8/02** (2013.01 - EP); **C21D 8/0226** (2013.01 - EP); **C21D 8/0236** (2013.01 - EP); **C21D 9/46** (2013.01 - EP KR); **C22C 38/00** (2013.01 - EP); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/002** (2013.01 - EP); **C22C 38/004** (2013.01 - EP); **C22C 38/008** (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 38/42** (2013.01 - EP KR US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP KR US); **C22C 38/50** (2013.01 - EP KR US); **C22C 38/52** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP KR US); **C21D 2211/005** (2013.01 - KR US)

Citation (search report)  
• [I] EP 1818421 A1 20070815 - UGINE & ALZ FRANCE [FR]  
• [A] EP 2639325 A1 20130918 - JFE STEEL CORP [JP]  
• [A] EP 2692891 A1 20140205 - NIPPON STEEL & SUMIKIN SST [JP]  
• [A] EP 3214198 A1 20170906 - NIPPON STEEL & SUMIKIN SST [JP]  
• [A] EP 2264202 A1 20101222 - JFE STEEL CORP [JP]  
• See references of WO 2019151125A1

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 3719164 A1 20201007**; **EP 3719164 A4 20201007**; CN 111684092 A 20200918; JP 6624347 B1 20191225; JP WO2019151125 A1 20200206; KR 102508125 B1 20230308; KR 20200100833 A 20200826; TW 201934778 A 20190901; TW I722377 B 20210321; US 2021032731 A1 20210204; WO 2019151125 A1 20190808

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**EP 19746936 A 20190125**; CN 201980010962 A 20190125; JP 2019002413 W 20190125; JP 2019526014 A 20190125; KR 20207022119 A 20190125; TW 108103350 A 20190129; US 201916966711 A 20190125