

Title (en)

HOT-ROLLED AND ANNEALED FERRITIC STAINLESS STEEL SHEET AND METHOD FOR PRODUCING SAME

Title (de)

WARMGEWALZTES UND GEGLÜHTES FERRITISCHES ROSTFREIES STAHLBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

TÔLE D'ACIER INOXYDABLE FERRITIQUE LAMINÉE À CHAUD ET RECUITE ET PROCÉDÉ POUR LA FABRIQUER

Publication

**EP 3486347 A4 20190710 (EN)**

Application

**EP 17862905 A 20170927**

Priority

- JP 2016203348 A 20161017
- JP 2017034949 W 20170927

Abstract (en)

[origin: EP3486347A1] Provided are a hot-rolled and annealed ferritic stainless steel sheet which has sufficient corrosion resistance and with which it is possible to inhibit a crack from occurring when punching work is performed to form a thick-walled flange and a method for manufacturing the steel sheet. A hot-rolled and annealed ferritic stainless steel sheet having a chemical composition containing, by mass%, C: 0.001% to 0.020%, Si: 0.05% to 1.00%, Mn: 0.05% to 1.00%, P: 0.04% or less, S: 0.01% or less, Al: 0.001% to 0.100%, Cr: 10.0% to 24.0%, Ni: 0.01% to 0.60%, Ti: 0.10% to 0.40%, N: 0.001% to 0.020%, and the balance being Fe and inevitable impurities, and a threshold stress intensity factor K<sub>IC</sub> of 20 MPa · m<sup>1/2</sup> or more.

IPC 8 full level

**C22C 38/00** (2006.01); **B21B 1/22** (2006.01); **B21B 3/02** (2006.01); **C21D 1/26** (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C21D 8/04** (2006.01); **C21D 9/46** (2006.01); **C21D 9/48** (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 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/52** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR US)

**C21D 6/004** (2013.01 - EP US); **C21D 6/005** (2013.01 - US); **C21D 6/008** (2013.01 - US); **C21D 8/0205** (2013.01 - US); **C21D 8/0247** (2013.01 - KR); **C21D 8/0263** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/004** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/008** (2013.01 - KR); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **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 US); **C22C 38/50** (2013.01 - EP KR US); **C22C 38/52** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP KR US); **C22C 38/60** (2013.01 - KR); **C21D 1/26** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP KR US)

Citation (search report)

- [X] JP 2000144258 A 20000526 - KAWASAKI STEEL CO
- [A] JP 3451830 B2 20030929
- [A] JP 2002285300 A 20021003 - KAWASAKI STEEL CO
- See references of WO 2018074164A1

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 3486347 A1 20190522**; **EP 3486347 A4 20190710**; **EP 3486347 B1 20201021**; CN 109642286 A 20190416; CN 109642286 B 20210212; ES 2831841 T3 20210609; KR 102201004 B1 20210111; KR 20190032477 A 20190327; US 2019226045 A1 20190725; WO 2018074164 A1 20180426

DOCDB simple family (application)

**EP 17862905 A 20170927**; CN 201780051736 A 20170927; ES 17862905 T 20170927; JP 2017034949 W 20170927; KR 20197005080 A 20170927; US 201716327988 A 20170927