

## Title (en)

FERRITE STAINLESS HOT-ROLLED STEEL SHEET AND PRODUCTION METHOD THEREFOR

## Title (de)

WARMGEWALZTES FERRITEDELSTAHLBLECH UND HERSTELLUNGSVERFAHREN DAFÜR

## Title (fr)

TÔLE D'ACIER INOXYDABLE FERRITIQUE, LAMINÉE À CHAUD ET PROCÉDÉ DE PRODUCTION CORRESPONDANT

## Publication

**EP 3556880 A4 20191204 (EN)**

## Application

**EP 18745041 A 20180112**

## Priority

- JP 2017012545 A 20170126
- JP 2018000559 W 20180112

## Abstract (en)

[origin: EP3556880A1] Provided is a hot-rolled ferritic stainless steel sheet which has sufficient corrosion resistance and which can prevent the occurrence of cracking when subjected to blanking to be formed into a thick flange, and also provided is a method for manufacturing the hot-rolled ferritic stainless steel sheet. A hot-rolled ferritic stainless steel sheet having a chemical composition containing, in 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 0.50%, N: 0.001 to 0.020%, Cr: 11.0 to 24.0%, Ni: 0.01 to 2.00%, and Nb: 0.12 to 0.80%, with the balance being Fe and incidental impurities, wherein the hot-rolled ferritic stainless steel sheet has a threshold stress intensity factor K<sub>01</sub> of 25 MPa·m<sup>1/2</sup> or more.

## IPC 8 full level

**C22C 38/00** (2006.01); **C21D 6/00** (2006.01); **C21D 6/02** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (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 6/004** (2013.01 - EP); **C21D 6/02** (2013.01 - EP); **C21D 8/02** (2013.01 - EP KR); **C21D 8/0205** (2013.01 - EP); **C21D 8/0226** (2013.01 - EP US); **C21D 8/0263** (2013.01 - US); **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); **C22C 38/005** (2013.01 - EP); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP KR US); **C22C 38/50** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP KR US); **C22C 38/60** (2013.01 - KR); **C21D 2211/005** (2013.01 - US)

## Citation (search report)

- [X1] JP 2001181798 A 20010703 - KAWASAKI STEEL CO
- [A] JP H09174114 A 19970708 - KAWASAKI STEEL CO
- [A] JP 2009068034 A 20090402 - JFE STEEL KK
- [A] EP 2980251 A1 20160203 - NIPPON STEEL & SUMIKIN SST [JP]
- [A] JP 2015190025 A 20151102 - NIPPON STEEL & SUMIKIN SST
- [A] JP H08199237 A 19960806 - NISSHIN STEEL CO LTD
- See references of WO 2018139207A1

## 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 3556880 A1 20191023**; **EP 3556880 A4 20191204**; CN 110225988 A 20190910; CN 110225988 B 20210907; JP 6384640 B1 20180905; JP WO2018139207 A1 20190131; KR 102274976 B1 20210707; KR 20190102028 A 20190902; MX 2019008874 A 20190918; US 2020002779 A1 20200102; WO 2018139207 A1 20180802

## DOCDB simple family (application)

**EP 18745041 A 20180112**; CN 201880008313 A 20180112; JP 2018000559 W 20180112; JP 2018521321 A 20180112; KR 20197021747 A 20180112; MX 2019008874 A 20180112; US 201816480785 A 20180112