

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 A1 20191023 (EN)

Application

EP 18745041 A 20180112

Priority

- JP 2017012545 A 20170126
- JP 2018000559 W 20180112

Abstract (en)

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_{IC} of 25 MPa·m^{1/2} or more.

IPC 8 full level

C22C 38/00 (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C22C 38/48** (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)

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

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