

Title (en)
FERRITIC STAINLESS STEEL PLATE EXCELLENT IN PUNCHABILITY AND PROCESS FOR PRODUCTION OF THE SAME

Title (de)
PLATTE AUS FERRITISCHEM NICHTTOSTENDEM STAHL MIT HERVORRAGENDER STANZBARKEIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
PLAQUE D'ACIER INOXYDABLE FERRITIQUE PRÉSENTANT UNE EXCELLENTE APTITUDE AU DÉCOUPAGE À LA MATRICE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2182085 B1 20171011 (EN)

Application
EP 08777563 A 20080618

Priority
• JP 2008061498 W 20080618
• JP 2007213801 A 20070820

Abstract (en)
[origin: EP2182085A1] A ferritic stainless steel sheet which can be processed by a punching work and/or a shearing work without generating burrs and a method for manufacturing the ferritic stainless steel sheet are provided. In particular, after a slab having a composition which contains 0.0030 to 0.012 mass percent of C, 0.13 mass percent or less of Si, 0.25 mass percent or less of Mn, 0.04 mass percent or less of P, 0.005 mass percent or less of S, 0.06 mass percent or less of Al, 0.0030 to 0.012 mass percent of N, 20.5 to 23.5 mass percent of Cr, 0.3 to 0.6 mass percent of Cu, 0.5 mass percent or less of Ni, 0.3 to 0.5 mass percent of Nb, 0.05 to 0.15 mass percent of Ti, and the balance being Fe and inevitable impurities is hot-rolled at a finishing temperature of 900°C or more and at a coiling temperature of 400 to 550°C, softening annealing is performed on an obtained hot-rolled steel sheet, picking is further performed, and cold rolling is subsequently performed.

IPC 8 full level
C22C 38/00 (2006.01); **B21B 1/26** (2006.01); **B21B 3/02** (2006.01); **C21D 1/32** (2006.01); **C21D 1/673** (2006.01); **C21D 6/00** (2006.01); **C21D 8/04** (2006.01); **C21D 9/46** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/42** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP US)
C21D 1/32 (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 8/0436** (2013.01 - EP US); **C21D 8/0473** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **B21B 3/02** (2013.01 - EP US); **C21D 1/673** (2013.01 - EP US); **C21D 2211/004** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US)

Cited by
EP2677055A4; US9938598B2; US10837075B2; US11384405B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2182085 A1 20100505; EP 2182085 A4 20160316; EP 2182085 B1 20171011; CN 101784686 A 20100721; CN 101784686 B 20110921; ES 2651023 T3 20180123; JP 2009068104 A 20090402; JP 5391609 B2 20140115; TW 200918676 A 20090501; TW I390049 B 20130321; US 2011061777 A1 20110317; WO 2009025125 A1 20090226

DOCDB simple family (application)
EP 08777563 A 20080618; CN 200880103552 A 20080618; ES 08777563 T 20080618; JP 2008061498 W 20080618; JP 2008207752 A 20080812; TW 97123009 A 20080620; US 67365108 A 20080618