

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

Title (de)  
PLATTE AUS FERRITISCHEM NICHTTROTENDEM 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 A4 20160316 (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)

Citation (search report)  
• [Y] JP 2001254153 A 20010918 - NIPPON STEEL CORP  
• [Y] US 5492575 A 19960220 - TERAOKA SHINICHI [JP], et al  
• [Y] US 2001003293 A1 20010614 - HIRATA NORIMASA [JP], et al  
• [A] JP H08311542 A 19961126 - NIPPON STEEL CORP  
• See references of WO 2009025125A1

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EP2677055A4; US9938598B2; US11384405B2; US10837075B2

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