

Title (en)
FERRITIC STAINLESS STEEL

Title (de)
FERRITISCHER EDELSTAHL

Title (fr)
ACIER INOXYDABLE FERRITIQUE

Publication
EP 2799577 A4 20150715 (EN)

Application
EP 12863746 A 20121213

Priority
• JP 2011285527 A 20111227
• JP 2012007972 W 20121213

Abstract (en)
[origin: EP2799577A1] Provided is ferritic stainless steel that realizes high corrosion resistance of a welded zone and that has high resistance to weld cracking. The ferritic stainless steel contains, by mass%, C: 0.001% to 0.030%, Si: 0.03% to 0.80%, Mn: 0.05% to 0.50%, P: 0.03% or less, S: 0.01% or less, Cr: 19.0% to 28.0%, Ni: 0.01% to less than 0.30%, Mo: 0.2% to 3.0%, Al: more than 0.15% to 1.2%, V: 0.02% to 0.50%, Cu: less than 0.1%, Ti: 0.05% to 0.50%, N: 0.001% to 0.030%, and Nb: less than 0.05%. Expression (1) is satisfied and the balance is Fe and inevitable impurities. Nb × P #a 0.0005 In Expression (1), each element symbol represents the content (by mass%) of the element.

IPC 8 full level
C21D 6/00 (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/40** (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 US)
C21D 6/002 (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/004** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/40** (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 US); **C22C 38/50** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C21D 9/50** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C21D 2251/04** (2013.01 - EP US)

Citation (search report)
• [X] WO 2011111646 A1 20110915 - NIPPON STEEL & SUMIKIN SST [JP], et al
• [X] JP 2006257544 A 20060928 - NIPPON STEEL & SUMIKIN SST
• [A] JP 2011173124 A 20110908 - NISSHIN STEEL CO LTD
• [A] JP 2009012070 A 20090122 - JFE STEEL KK
• [A] JP 2005089850 A 20050407 - NISSHIN STEEL CO LTD
• [A] US 2010150770 A1 20100617 - HIRAIDE NOBUHIKO [JP], et al
• [E] EP 2826878 A1 20150121 - JFE STEEL CORP [JP]
• See references of WO 2013099132A1

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Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 2799577 A1 20141105; EP 2799577 A4 20150715; EP 2799577 B1 20161109; CN 104024458 A 20140903; CN 104024458 B 20161026; ES 2608460 T3 20170411; JP 5435179 B2 20140305; JP WO2013099132 A1 20150430; KR 101658872 B1 20160922; KR 20140098818 A 20140808; TW 201337004 A 20130916; TW I503423 B 20151011; US 2014363328 A1 20141211; WO 2013099132 A1 20130704

DOCDB simple family (application)
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