

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 - 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 - 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 - 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)  
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• [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  
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Designated contracting state (EPC)  
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