

Title (en)
FERRITIC STAINLESS STEEL

Title (de)
FERRITISCHER EDELSTAHL

Title (fr)
ACIER INOXYDABLE FERRITIQUE

Publication
EP 2902523 A4 20160323 (EN)

Application
EP 13842192 A 20130917

Priority
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• JP 2013005486 W 20130917

Abstract (en)
[origin: EP2902523A1] Provided is a ferritic stainless steel having a good thermal fatigue property and oxidation resistance while minimizing the contents of Mo, W, and Nb which are expensive elements and minimizing the content of Cu which deteriorates oxidation resistance and workability. A ferritic stainless steel comprises, in terms of % by mass, C: 0.020% or less, Si: 3.0% or less, Mn: 1.0% or less, P: 0.040% or less, S: 0.030% or less, Cr: 10.0% or more and less than 16.0%, N: 0.020% or less, Al: 1.4 to 4.0%, Ti: more than 0.15% and 0.5% or less, Ni: 0.05 to 0.5%, and the balance being Fe and unavoidable impurities, the ferritic stainless steel satisfying formula (1) below: $\frac{\text{Al}\%}{\text{Cr}\%} \geq 0.14$ (1) where Al% and Cr% in the formula respectively denote an Al content and a Cr content (% by mass).

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 38/42** (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: CN EP US)
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Citation (search report)
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• [XA] JP 2011179088 A 20110915 - NISSHIN STEEL CO LTD
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