

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  
• JP 2012210492 A 20120925  
• 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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