

Title (en)
FERRITIC STAINLESS STEEL FOR EXHAUST SYSTEM MEMBER HAVING EXCELLENT CORROSION RESISTANCE AFTER HEATING

Title (de)
FERRITISCHER EDELSTAHL FÜR ABGASVORRICHTUNG MIT EXZELLENTER KORROSIONSBESTÄNDIGKEIT NACH ERWÄRMUNG

Title (fr)
ACIER INOXYDABLE FERRITIQUE POUR ÉLÉMENT DE SYSTÈME D'ÉCHAPPEMENT PRÉSENTANT UNE EXCELLENTE RÉSISTANCE À LA CORROSION APRÈS CHAUFFAGE

Publication
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Application
EP 16740065 A 20160115

Priority
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Abstract (en)
[origin: EP3249067A1] A ferritic stainless steel for exhaust system components excellent in corrosion resistance after heating is provided. A ferritic stainless steel for exhaust system components excellent in corrosion resistance after heating includes: 0.015 mass% or less of C; 0.02 mass% or less of N; 0.03 mass% to 1.0 mass of Si; 1.0 mass of Mn; 0.04 mass of P; 0.01 mass of S; 10.5 mass% to 22.5 mass of Cr; 0.02 mass% to 0.5 mass of Sn; 0.003 mass% to 0.2 mass of Al; one or both of 0.03 mass% to 0.35 mass of Ti and 0.03 mass% to 0.6 mass of Nb; and a remnant comprising Fe and inevitable impurities, wherein a grain size number on a surface of the ferritic stainless steel is 6 to 2 to 15 nm of a layer containing Sn at a concentration twice or more of Sn content in the base material is formed on the ferritic stainless steel.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/30** (2006.01); **C22C 38/32** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR US)
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