Title (en)

FERRITE-BASED STAINLESS STEEL WITH HIGH RESISTANCE TO CORROSIVENESS CAUSED BY EXHAUST GAS AND CONDENSATION AND HIGH BRAZING PROPERTIES AND METHOD FOR MANUFACTURING SAME

Title (de)

FERRIT-BASIERTER ROSTFREIER STAHL MIT HOHER BESTÄNDIGKEIT GEGEN KORROSIVITÄT DURCH ABGAS UND KONDENSATION UND MIT GUTEN LÖTEIGENSCHAFTEN SOWIE VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

ACIER INOXYDABLE À BASE DE FERRITE PRÉSENTANT UNE HAUTE RÉSISTANCE À LA CORROSIVITÉ PROVOQUÉE PAR DU GAZ D'ÉCHAPPEMENT ET LA CONDENSATION ET DES PROPRIÉTÉS AU BRASAGE ÉLEVÉES ET PROCÉDÉ POUR LA FABRICATION DE CE DERNIER

Publication

EP 3214198 B1 20220601 (EN)

Application

EP 15855321 A 20151030

Priority

- JP 2014222201 A 20141031
- JP 2015210741 A 20151027
- JP 2015080751 W 20151030

Abstract (en)

[origin: EP3214198A1] This ferritic stainless steel contains, by mass%, C: 0.001% to 0.030%; Si: 0.01% to 1.00%, Mn: 0.01% to 2.00%, P: 0.050% or less, S: 0.0100% or less, Cr: 11.0% to 30.0%, Mo: 0.01% to 3.00%, Ti: 0.001% to 0.050%, Al: 0.001% to 0.030%, Nb: 0.010% to 1.000%, and N: 0.050% or less, with a remainder being Fe and inevitable impurities, wherein an amount of Al, an amount of Ti, and an amount of Si (mass%) satisfy Al/Ti#¥8.4Si-0.78.

IPC 8 full level

C21D 6/00 (2006.01); **C21D 8/02** (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 38/20** (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 38/38** (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)

CPC (source: EP KR US)

C21D 1/26 (2013.01 - EP); **C21D 1/74** (2013.01 - KR); **C21D 6/002** (2013.01 - EP US); **C21D 8/0205** (2013.01 - EP US); **C21D 8/0221** (2013.01 - KR); **C21D 8/0236** (2013.01 - EP US); **C21D 8/0247** (2013.01 - KR); **C21D 8/0273** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/00** (2013.01 - US); **C22C 38/001** (2013.01 - US); **C22C 38/002** (2013.01 - US); **C22C 38/004** (2013.01 - EP KR US); **C22C 38/005** (2013.01 - EP US); **C22C 38/008** (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 38/20** (2013.01 - US); **C22C 38/22** (2013.01 - EP KR US); **C22C 38/24** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP KR US); **C22C 38/28** (2013.01 - EP KR US); **C22C 38/30** (2013.01 - EP US); **C22C 38/32** (2013.01 - US); **C22C 38/38** (2013.01 - EP KR US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - 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 - US); **C22C 38/60** (2013.01 - EP KR US); C21D 2211/005 (2013.01 - KR)

Cited by

CN111727268A; EP3719164A4; TWI722377B; WO2020115531A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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