

Title (en)

AUSTENITIC STAINLESS STEEL EXCELLENT IN INTERGRANULAR CORROSION RESISTANCE AND STRESS CORROSION CRACKING RESISTANCE, AND METHOD FOR PRODUCING AUSTENITIC STAINLESS STEEL

Title (de)

AUSTENITISCHER EDELSTAHL MIT HERVORRAGENDER BESTÄNDIGKEIT GEGENÜBER KORNGRENZKORROSION UND SPANNUNGSRISIKORROSION SOWIE VERFAHREN ZUR HERSTELLUNG DES AUSTENITISCHEN EDELSTAHL

Title (fr)

ACIER INOXYDABLE AUSTÉNITIQUE POSSÉDANT D'EXCELLENTE PROPRIÉTÉS DE RÉSISTANCE À LA CORROSION INTERGRANULAIRE ET DE RÉSISTANCE À LA FISSURATION PAR CORROSION SOUS CONTRAINTES, ET PROCÉDÉ DE PRODUCTION D'ACIER INOXYDABLE AUSTÉNITIQUE

Publication

EP 2143815 B1 20140108 (EN)

Application

EP 08752039 A 20080424

Priority

- JP 2008057940 W 20080424
- JP 2007117981 A 20070427
- JP 2008015094 A 20080125

Abstract (en)

[origin: EP2143815A1] An austenitic stainless steel excellent in intergranular corrosion resistance and stress corrosion cracking resistance, comprising: C: 0.005 wt% or less; Si: 0.5 wt% or less; Mn: 0.5 wt% or less; P: 0.005 wt% or less; S: 0.005 wt% or less; Ni: 15.0 to 40.0 wt%, Cr: 20.0 to 30.0 wt%, N: 0.01 wt% or less; O: 0.01 wt% or less; and the balance of Fe and inevitable impurities, wherein the content of B included in the inevitable impurities is 3 wt ppm or less.

IPC 8 full level

B21B 3/02 (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR US)

C21D 6/004 (2013.01 - EP KR US); **C21D 8/021** (2013.01 - EP KR US); **C21D 8/0226** (2013.01 - EP US); **C21D 8/0236** (2013.01 - EP KR US); **C22C 38/004** (2013.01 - KR); **C22C 38/40** (2013.01 - EP KR US); **C22C 38/50** (2013.01 - EP KR US); **C22C 38/54** (2013.01 - EP KR US); **C21D 2211/001** (2013.01 - EP KR US)

Cited by

TWI751454B

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 2143815 A1 20100113; **EP 2143815 A4 20111221**; **EP 2143815 B1 20140108**; CN 101668873 A 20100310; CN 101668873 B 20121128; JP 2009197316 A 20090903; JP 5756935 B2 20150729; KR 20090130331 A 20091222; RU 2420598 C1 20110610; US 2010116382 A1 20100513; WO 2008136354 A1 20081113

DOCDB simple family (application)

EP 08752039 A 20080424; CN 200880013932 A 20080424; JP 2008057940 W 20080424; JP 2008115964 A 20080425; KR 20097024623 A 20080424; RU 2009143899 A 20080424; US 59783808 A 20080424