

Title (en)

FERRITIC STAINLESS STEEL WITH EXCELLENT HEAT RESISTANCE AND TOUGHNESS

Title (de)

FERRITISCHER NICHTTROTENDER STAHL MIT HERVORRAGENDER WÄRMEBESTÄNDIGKEIT UND ZÄHIGKEIT

Title (fr)

ACIER INOXYDABLE FERRITIQUE AYANT D'EXCELLENTE RÉSISTANCE À LA CHALEUR ET TÉNACITÉ

Publication

**EP 2264202 B1 20141008 (EN)**

Application

**EP 09718001 A 20090305**

Priority

- JP 2009054707 W 20090305
- JP 2008057613 A 20080307

Abstract (en)

[origin: EP2264202A1] A ferritic stainless steel being excellent in thermal fatigue resistance and oxidation resistance and also having toughness that is equivalent to or higher than that of Type 429 is provided without adding an expensive element such as Mo or W. Specifically, the ferritic stainless steel includes C: 0.015 mass% or less, Si: 0.5 mass% or less, Mn: 0.5 mass% or less, P: 0.04 mass% or less, S: 0.006 mass% or less, Cr: 16 to 20 mass%, N: 0.015 mass% or less, Nb: 0.3 to 0.55 mass%, Ti: 0.01 mass% or less, Mo: 0.1 mass% or less, W: 0.1 mass% or less, Cu: 1.0 to 2.5 mass%, Al: 0.2 to 1.2 mass%, and the balance of Fe and inevitable impurities.

IPC 8 full level

**C22C 38/00** (2006.01); **C22C 38/28** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR US)

**C22C 38/001** (2013.01 - EP KR US); **C22C 38/004** (2013.01 - KR); **C22C 38/005** (2013.01 - KR); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/20** (2013.01 - EP KR US); **C22C 38/22** (2013.01 - EP KR US); **C22C 38/26** (2013.01 - EP KR US); **C22C 38/28** (2013.01 - EP KR US)

Cited by

EP3719164A4; EP2557194A1

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