

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 A1 20101222 (EN)

Application
EP 09718001 A 20090305

Priority
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• JP 2008057613 A 20080307

Abstract (en)
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
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Cited by
EP3719164A4; EP2557194A1

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
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