Title (en)

HEAT AND CORROSION RESISTANT CAST AUSTENITIC STAINLESS STEEL ALLOY WITH IMPROVED HIGH TEMPERATURE STRENGTH

Title (de)

HITZE- UND KORROSIONSBESTÄNDIGE AUSTENITISCHE NICHTROSTENDE GUSSSTAHLLEGIERUNG MIT VERBESSERTER HOCHTEMPERATURFESTIGKEIT

Title (fr)

ALLIAGE MOULÉ D'ACIER INOX AUSTÉNITIQUE RÉSISTANT À LA CHALEUR ET À LA CORROSION ET À RÉSISTANCE AMÉLIORÉE AUX TEMPÉRATURES ÉLEVÉES

Publication

EP 2047007 A1 20090415 (EN)

Application

EP 07751919 A 20070228

Priority

- US 2007005188 W 20070228
- US 49567106 A 20060731

Abstract (en)

[origin: US2006266439A1] A heat and corrosion resistant cast austenitic stainless steel alloy which contains less than about 15% nickel. The alloy has a completely austenitic microstructure in an as-cast state, and a creep rupture life exceeding 20,000 hrs at a stress of 35 MPa and a temperature of 850° C., when creep tested in the as-cast state under ASTM E139 test conditions.

IPC 8 full level

C22C 38/00 (2006.01); F01N 13/16 (2010.01)

CPC (source: EP KR US)

C21D 6/004 (2013.01 - EP KR US); **C22C 38/001** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/42** (2013.01 - KR); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/48** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - EP US); C21D 2211/001 (2013.01 - EP KR US)

Citation (search report)

See references of WO 2008016395A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

US 2006266439 A1 20061130; CA 2580933 A1 20080131; CN 101506399 A 20090812; EP 2047007 A1 20090415; JP 2009545675 A 20091224; KR 20090035723 A 20090410; RU 2009107232 A 20100910; WO 2008016395 A1 20080207

DOCDB simple family (application)

US 49567106 A 20060731; CA 2580933 A 20070305; CN 200780030882 A 20070228; EP 07751919 A 20070228; JP 2009522748 A 20070228; KR 20097004121 A 20090227; RU 2009107232 A 20070228; US 2007005188 W 20070228