

Title (en)
AUSTENITIC STAINLESS STEEL FOR APPARATUS FOR HIGH-TEMPERATURE USE HAVING WELDED TUBULAR STRUCTURE

Title (de)
AUSTENITISCHER EDELSTAHL FÜR VORRICHTUNG ZUR HOCHTEMPERATURVERWENDUNG MIT GESCHWEISSTER RÖHRENFÖRMIGER STRUKTUR

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE POUR UN APPAREIL DESTINÉ À UNE UTILISATION À HAUTE TEMPÉRATURE PRÉSENTANT UNE STRUCTURE TUBULAIRE SOUDÉE

Publication
EP 2816133 B1 20200819 (EN)

Application
EP 13749790 A 20130215

Priority
• JP 2012030415 A 20120215
• JP 2013053764 W 20130215

Abstract (en)
[origin: EP2816133A1] Provided is an austenitic stainless steel which exhibits excellent weldability and which is suitable for an apparatus that has a welded pipe structure and that is to be used at high temperature. The austenitic stainless steel contains, in mass%, 0.001 to 0.2% of C, 0.01 to 1.5% of Si, 0.01 to 1.5% of Mn, up to 0.022% of P, up to 0.004% of S, 20.0 to 26.0% of Cr, 15.0 to 23.0% of Ni, 0.001 to 0.07% of N, 0.003 to 0.05% of Al and 0.0003 to 0.005% of Ca, with the contents of Al and Ca satisfying the relationship (1) $0.015 \# \text{Al} + 17.92 (\% \text{Ca}) \# \leq 0.093$ (1), and may further contain one or more selected from among Cu, Mo, Sn, W, Co, Ti, Nb, V, Zr, B, Mg and REMs in a prescribed amount.

IPC 8 full level
C21D 6/00 (2006.01); **C21D 8/10** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/40** (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); **C22C 38/52** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP)
C21D 6/004 (2013.01); **C21D 8/105** (2013.01); **C22C 38/00** (2013.01); **C22C 38/001** (2013.01); **C22C 38/002** (2013.01); **C22C 38/008** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/06** (2013.01); **C22C 38/40** (2013.01); **C22C 38/42** (2013.01); **C22C 38/44** (2013.01); **C22C 38/46** (2013.01); **C22C 38/48** (2013.01); **C22C 38/50** (2013.01); **C22C 38/52** (2013.01); **C22C 38/54** (2013.01); **C21D 2211/001** (2013.01)

Cited by
CN111004976A; CN115896647A; WO2021037926A1

Designated contracting state (EPC)
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

DOCDB simple family (publication)
EP 2816133 A1 20141224; **EP 2816133 A4 20160504**; **EP 2816133 B1 20200819**; JP 2013166989 A 20130829; JP 5780598 B2 20150916; WO 2013122234 A1 20130822

DOCDB simple family (application)
EP 13749790 A 20130215; JP 2012030415 A 20120215; JP 2013053764 W 20130215