

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)  $0.015 \# \text{Al} + 17.92 (\% \text{Ca}) \# \text{Al} \leq 0.093$  (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  
**C22C 38/00** (2006.01); **C21D 6/00** (2006.01); **C21D 8/10** (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)  
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Cited by  
CN111004976A; CN115896647A; WO2021037926A1

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