

Title (en)  
Corrosion resistant austenitic steel

Title (de)  
Korrosionsbeständige, austenitische Stahllegierung

Title (fr)  
Acier austenitique résistant à la corrosion

Publication  
**EP 1538232 B1 20070103 (DE)**

Application  
**EP 04450211 A 20041117**

Priority  
AT 19382003 A 20031203

Abstract (en)  
[origin: EP1538232A1] Austenitic ferrite-free steel alloy contains (in weight %) up to 0.35 carbon, up to 0.75 silicon, 19.0-30.0 manganese, 17.0-24.0 chromium, 1.90- 5.5 molybdenum, up to 2.0 tungsten, up to 15.0 nickel, up to 5.0 cobalt, 0.35- 1.05 nitrogen, up to 0.005 boron, up to 0.30 sulfur, less than 0.5 copper, less than 0.05 aluminum, less than 0.035 phosphorus and a sum of nickel and cobalt of more than 2.50. An independent claim is also included for a process for the production of the austenitic ferrite-free steel alloy. Preferred Features: The steel alloy contains (in weight %) 3.8-9.8 Ni, less than 0.2 Co, 2.5- 4.5 Mo, 20.0-25.5 Mn, 20.0-23.0 Cr, 0.15-0.30 Si and 0.01-0.06 C.

IPC 8 full level  
**C22C 38/58** (2006.01); **C21D 7/00** (2006.01); **C21D 8/06** (2006.01); **C21D 6/00** (2006.01)

CPC (source: EP NO US)  
**C21D 7/00** (2013.01 - NO); **C21D 8/06** (2013.01 - NO); **C21D 8/065** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/38** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP NO US); **C21D 6/002** (2013.01 - EP US); **C21D 6/005** (2013.01 - EP US); **C21D 7/00** (2013.01 - EP US); **C21D 2261/00** (2013.01 - EP US)

Cited by  
WO2008127262A3; EP2248919B1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1538232 A1 20050608**; **EP 1538232 B1 20070103**; AT 412727 B 20050627; AT A19382003 A 20041115; AT E350505 T1 20070115; CA 2488965 A1 20050603; CA 2488965 C 20130409; DE 502004002524 D1 20070215; ES 2280936 T3 20070916; NO 20045271 L 20050606; NO 340359 B1 20170410; US 2005145308 A1 20050707; US 2010170596 A1 20100708; US 2011253262 A1 20111020; US 7708841 B2 20100504; US 7947136 B2 20110524; US 8454765 B2 20130604

DOCDB simple family (application)  
**EP 04450211 A 20041117**; AT 04450211 T 20041117; AT 19382003 A 20031203; CA 2488965 A 20041202; DE 502004002524 T 20041117; ES 04450211 T 20041117; NO 20045271 A 20041201; US 106104 A 20041202; US 201113088019 A 20110415; US 72522910 A 20100316