

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
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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)
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DOCDB simple family (application)
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