

Title (en)
Austenitic stainless steel

Title (de)
Rostfreier austenitischer Stahl

Title (fr)
Acier inoxydable austénitique

Publication
EP 1690957 A1 20060816 (EN)

Application
EP 05425070 A 20050214

Priority
EP 05425070 A 20050214

Abstract (en)
A new austenitic stainless steel with the following composition by weight is described: 0.03 % < carbon < 0.07 % 7.0 % < manganese < 8.5 % 0.3 % < silicon 0.7 % sulphur # 0.030 % phosphorus # 0.045 % 16.5 % < chromium < 18.0 % 3.5 % < nickel < 4.5 % 0.1 % < molybdenum < 0.5 % 1.0 % < copper < 3.0 % 0.1 % < nitrogen < 0.3 % the difference consisting in iron and common process impurities. The steel thus obtained has an optimum combination of corrosion resistance, deformability and work-hardening properties, which make it suitable as a substitute for normal steel type 1.4301 in various specific applications.

IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/08** (2006.01); **C22C 38/38** (2006.01); **C22C 38/40** (2006.01)

CPC (source: EP US)
C22C 38/001 (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US);
C22C 38/58 (2013.01 - EP US)

Citation (search report)

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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 LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1690957 A1 20060816; AU 2006212194 A1 20060817; AU 2006212194 B2 20100909; CA 2597750 A1 20060817; EP 1851351 A1 20071107; EP 1851351 B1 20120815; ES 2390678 T3 20121115; US 2008206088 A1 20080828; WO 2006084919 A1 20060817; ZA 200705778 B 20081126

DOCDB simple family (application)
EP 05425070 A 20050214; AU 2006212194 A 20060214; CA 2597750 A 20060214; EP 06708260 A 20060214; EP 2006050923 W 20060214; ES 06708260 T 20060214; US 81530306 A 20060214; ZA 200705778 A 20060214