

Title (en)
AUSTENITIC STAINLESS STEEL

Title (de)
AUSTENITISCHER NICHTROSTENDER STAHL

Title (fr)
ACIER INOXIDABLE AUSTÉNITIQUE

Publication
EP 1851351 B1 20120815 (EN)

Application
EP 06708260 A 20060214

Priority
• EP 2006050923 W 20060214
• EP 05425070 A 20050214
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Abstract (en)
[origin: EP1690957A1] 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)

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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

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