

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)

- [XD] WO 0026428 A1 20000511 - CRS HOLDINGS INC [US], et al
- [A] ES 2142756 A1 20000416 - ACERINOX SA [ES]
- [A] US 4568387 A 19860204 - ZIEMIANSKI JOHN P [US]
- [A] GB 2359095 A 20010815 - JINDAL STRIPS LTD [IN]
- [AD] EP 0593158 A1 19940420 - ALLEGHENY LUDLUM CORP [US]
- [AD] US 6274084 B1 20010814 - HAUDRECHY PASCALE [FR]
- [AD] EP 0694626 A1 19960131 - ACERINOX SA [ES]

Cited by  
EP2189550A4; CN102337481A; FR2938563A1; CN102605291A; US8851450B2; WO2010007153A3; US9133538B2; US9873932B2; US9121089B2; US9822435B2; US8858872B2; US9617628B2; US10370748B2; US8877121B2; US9624564B2; US10323308B2

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