Title (en)

Stainless austenitic steel suitable for the manufacture of wires

Title (de)

Rostfreier austenitischer Stahl geeignet für die Herstellung von Drähte

Title (fr)

Acier inoxydable austénitique pour l'élaboration notamment de fil

Publication

EP 0738783 A1 19961023 (FR)

Application

EP 96400736 A 19960405

Priority

FR 9504782 A 19950421

Abstract (en)

Austenitic stainless steel consists of wt.%:- max. 0.2 C; max 0.2 N; 0.3-4 Mn; 14-23 Cr; 5-17 Ni; 0.3-2 Si; max 0.1 S; 0.005-0.012 O; 0.00001-0.002 Al. max 0.0002 Mg; 0.00001-0.0005 Ca; max 0.005 Ti. Inside the steel area oxide inclusions as follows:- 40-60 SiO2; 5-50 MnO; 1-30 CaO; 0.1-20 MgO; 3-25 Al2O3; 0.1-10 Cr2O3.

Abstract (fr)

Acier inoxydable austénitique pour la réalisation de fil pouvant être utilisé dans le domaine du tréfilage en diamètre inférieur à 0,3 mm et dans le domaine de la réalisation de pièces soumises à la fatigue, caractérisé en la composition pondérale suivante: carbone <= 200. 10<-3>%, azote <= 200. 10 <-3>%, 0,3% <= manganèse <= 4%, 14% <= chrome <= 23%, 5% <= nickel <=17%, 0,3% <= silicium <= 2%, soufre <= 10.10-3%, 50.10<-4>% <= oxygène total <= 120.10<-4>%, 0,1.10<-4>% <= aluminium <= 20.10<-4>%, magnésium <= 2.10<-4>%, 0,1.10<-4> % <= calcium <= 5.10<-4>%, titane <= 5.10<-3>%, des impuretés inhérentes à la fabrication, et dans lequel des inclusions d'oxydes ont, sous forme de mélange vitreux, les proportions pondérales suivantes: 40% <= SiO2 <= 60%, 5% <= MnO <= 50%, 1% <= CaO <= 30%, 0,1% <= MgO <= 20%, 3% <= Al2O3 <= 25%, 0,1% <= Cr2O3 <=10% <IMAGE>

IPC 1-7

C22C 38/40

IPC 8 full level

C22C 38/00 (2006.01); **C21D 8/06** (2006.01); **C22C 38/18** (2006.01); **C22C 38/40** (2006.01); **C22C 38/44** (2006.01); **C22C 38/50** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)

C21D 8/065 (2013.01 - EP US); **C22C 38/40** (2013.01 - EP KR US)

Citation (search report)

- [A] EP 0567365 A1 19931027 - UGINE SAVOIE SA [FR]
- [A] FR 2456785 A1 19801212 - DAIDO STEEL CO LTD [JP]
- [A] US 5314549 A 19940524 - MISAO HITOSHI [JP], et al
- [A] US 3933480 A 19760120 - TIPNIS VIJAYAKUMAR

Cited by

FR2818290A1; EP1221494A1; FR2818289A1; CN107760973A; EP0859064A1; FR2759709A1; AU734559B2; EP0947591A1; FR2776306A1; US6123784A; CN1098372C; US6440579B1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0738783 A1 19961023; **EP 0738783 B1 20000308**; AT E190361 T1 20000315; CA 2174567 A1 19961022; CA 2174567 C 20011023; CZ 113996 A3 19961113; CZ 291422 B6 20030312; DE 69606902 D1 20000413; DE 69606902 T2 20001109; DK 0738783 T3 20000731; EG 21379 A 20010930; ES 2145395 T3 20000701; FR 2733252 A1 19961025; FR 2733252 B1 19970523; GR 3033479 T3 20000929; IL 117977 A0 19960804; IL 117977 A 20001121; JP H08337852 A 19961224; KR 960037853 A 19961119; NO 312469 B1 20020513; NO 961531 D0 19960418; NO 961531 L 19961022; PL 185044 B1 20030228; PT 738783 E 20000731; RO 116098 B1 20001030; RU 2106425 C1 19980310; SI 9600129 A 19961031; TR 199600325 A2 19961121; TW 399100 B 20000721; UA 44716 C2 20020315; US 5651937 A 19970729

DOCDB simple family (application)

EP 96400736 A 19960405; AT 96400736 T 19960405; CA 2174567 A 19960419; CZ 113996 A 19960419; DE 69606902 T 19960405; DK 96400736 T 19960405; EG 33596 A 19960420; ES 96400736 T 19960405; FR 9504782 A 19950421; GR 20000401176 T 20000523; IL 11797796 A 19960419; JP 12409296 A 19960422; KR 19960012046 A 19960419; NO 961531 A 19960418; PL 31386296 A 19960419; PT 96400736 T 19960405; RO 9600840 A 19960419; RU 96107678 A 19960419; SI 9600129 A 19960419; TR 9600325 A 19960418; TW 85104111 A 19960409; UA 96041536 A 19960417; US 63557996 A 19960422