

Title (en)  
Martensitic stainless steel with improved machinability

Title (de)  
Martensitisches rostfreies Stahl mit verbesserter Bearbeitbarkeit

Title (fr)  
Acier inoxydable martensitique à usinabilité améliorée

Publication  
**EP 0629714 B1 20000412 (FR)**

Application  
**EP 94401246 A 19940606**

Priority  
FR 9307141 A 19930614

Abstract (en)  
[origin: EP0629714A1] Martensitic stainless steel with improved machinability, characterised in that its composition by weight is the following: - carbon lower than 1.2 % - silicon lower than or equal to 2 % - manganese lower than or equal to 2 % - chromium: 10.5 < Cr < 19 % - sulphur lower than or equal to 0.55 % - calcium higher than 32 x 10<-4> % - oxygen higher than 70 x 10<-4> %, - the ratio of the calcium and oxygen contents Ca/O being 0.2 < Ca/O < 0.6, the said steel being subjected to at least one quenching heat treatment in order to give it a martensitic structure.

IPC 1-7  
**C22C 38/60**

IPC 8 full level  
**C22C 38/00** (2006.01); **C21C 7/04** (2006.01); **C22C 38/18** (2006.01); **C22C 38/34** (2006.01); **C22C 38/38** (2006.01); **C22C 38/58** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR US)  
**C22C 38/02** (2013.01 - KR); **C22C 38/18** (2013.01 - KR); **C22C 38/60** (2013.01 - EP US)

Citation (examination)  
JP S55122858 A 19800920 - DAIDO STEEL CO LTD

Cited by  
US6146475A; CZ303180B6; EP1314792A1; FR2832734A1; US2018274081A1; US10941083B2; EP2728028A1; US6921511B2; WO9936584A1; WO0053821A1; KR100437960B1

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