

Title (en)  
FREE-CUTTING STEEL

Title (de)  
AUTOMATENSTAHL

Title (fr)  
ACIER DE DECOLLETAGE

Publication  
**EP 1449932 B1 20070912 (EN)**

Application  
**EP 02783714 A 20021129**

Priority  

- JP 0212559 W 20021129
- JP 2001366695 A 20011130
- JP 2002185494 A 20020626
- JP 2002185495 A 20020626
- JP 2002185496 A 20020626

Abstract (en)  
[origin: EP1449932A1] A low carbon free cutting steel can be obtained by allowing the steel to contain 0.02 to 0.15 mass % of C, 0.05 to 1.8 mass % of Mn, 0.20 to 0.49 mass % of S, more than 0.01 mass % and not more than 0.03 mass % of O 0.3 to 2.3% of Cr, and the balance consisting of Fe and inevitable impurities, the Cr/S ratio falling within a range of between 2 and 6. <IMAGE>

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

CPC (source: EP KR)  
**C22C 38/002** (2013.01 - EP KR); **C22C 38/04** (2013.01 - EP KR); **C22C 38/18** (2013.01 - EP KR); **C22C 38/58** (2013.01 - EP KR);  
**C22C 38/60** (2013.01 - EP KR)

Cited by  
EP2789710A4

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**EP 1449932 A1 20040825; EP 1449932 A4 20050126; EP 1449932 B1 20070912**; CN 1276985 C 20060927; CN 1596320 A 20050316;  
DE 60222460 D1 20071025; DE 60222460 T2 20080619; KR 100604119 B1 20060725; KR 20040060996 A 20040706;  
TW 200300799 A 20030616; TW 583315 B 20040411; WO 03046240 A1 20030605

DOCDB simple family (application)  
**EP 02783714 A 20021129**; CN 02823873 A 20021129; DE 60222460 T 20021129; JP 0212559 W 20021129; KR 20047008056 A 20021129;  
TW 91134756 A 20021129