

Title (en)  
HIGH-SPEED STEEL FOR SAW BLADES

Title (de)  
SCHNELLARBEITSSTAHL FÜR SÄGEBLÄTTER

Title (fr)  
ACIER À COUPE RAPIDE POUR LAMES DE SCIE

Publication  
**EP 2010688 A4 20100804 (EN)**

Application  
**EP 07701607 A 20070202**

Priority

- BR 2007000023 W 20070202
- BR PI0601679 A 20060424

Abstract (en)  
[origin: WO2007121542A1] High-speed steel for saw blades, presenting a composition of alloy elements consisting, in mass percentage, of Carbon between 0.5 and 1.5; Chromium between 1.0 and 10.0; equivalent Tungsten, given by 2Mo+W relation, between 3.0 and 10.0; Niobium between 0.5 and 2.0. Niobium may be partially or fully replaced with Vanadium, at a ratio of 2% Niobium to each 1% Vanadium; Vanadium between 0.3 and 2.0. Vanadium may be partially or fully replaced with Niobium, at a ratio of 2% Niobium to each 1% Vanadium, Silicon between 0.3 and 3.5. Silicon may be partially or fully replaced with Aluminum, at a 1:1 ratio; Cobalt lower than 8, the remaining substantially Fe and impurities inevitable to the preparation process.

IPC 8 full level  
**C22C 38/00** (2006.01); **B22F 3/00** (2006.01); **B22F 5/00** (2006.01); **B23D 45/00** (2006.01); **C21D 1/00** (2006.01)

CPC (source: EP KR US)  
**C21D 8/005** (2013.01 - EP US); **C21D 9/24** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/22** (2013.01 - EP KR US); **C22C 38/24** (2013.01 - EP KR US); **C22C 38/26** (2013.01 - EP KR US); **C22C 38/30** (2013.01 - EP KR US); **C22C 38/42** (2013.01 - EP KR US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/46** (2013.01 - EP KR US); **C22C 38/52** (2013.01 - EP KR US); **B22F 2998/00** (2013.01 - EP KR US)

Citation (search report)

- [X] WO 0026427 A1 20000511 - ERASTEEL KLOSTER AB [SE], et al
- [X] EP 0930374 A1 19990721 - SANYO SPECIAL STEEL CO LTD [JP]
- [X] WO 9302818 A1 19930218 - KLOSTER SPEEDSTEEL AB [SE]
- See references of WO 2007121542A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007121542 A1 20071101**; BR PI0601679 A 20071218; BR PI0601679 B1 20141111; CN 101426944 A 20090506; EP 2010688 A1 20090107; EP 2010688 A4 20100804; JP 2009534536 A 20090924; KR 20080111101 A 20081222; MX 2008013467 A 20090211; RU 2008146047 A 20100527; RU 2440437 C2 20120120; US 2009123322 A1 20090514; ZA 200809962 B 20091125

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**BR 2007000023 W 20070202**; BR PI0601679 A 20060424; CN 200780014306 A 20070202; EP 07701607 A 20070202; JP 2009506870 A 20070202; KR 20087026156 A 20081024; MX 2008013467 A 20070202; RU 2008146047 A 20070202; US 22661407 A 20070202; ZA 200809962 A 20081124