

Title (en)  
WEAR-RESISTANT STEEL SHEET HAVING EXCELLENT WEAR RESISTANT AT HIGH TEMPERATURE AND PROCESSABILITY UPON BENDING, AND METHOD FOR PRODUCTION THEREOF

Title (de)  
ABNUTZUNGSFESTES STAHLBLECH MIT HERVORRAGENDER ABNUTZUNGSFESTIGKEIT BEI HOHER TEMPERATUR UND HERVORRAGENDER BIEGEVERARBEITBARKEIT SOWIE HERSTELLUNGSVERFAHREN DAFÜR.

Title (fr)  
PLAQUE D'ACIER RÉSISTANT À L'USURE AYANT UNE EXCELLENTE RÉSISTANCE À L'USURE À UNE TEMPÉRATURE ÉLEVÉE ET UNE EXCELLENTE APTITUDE AU CINTRAGE ET PROCÉDÉ DE FABRICATION DE CELLE-CI

Publication  
**EP 2180076 B1 20160330 (EN)**

Application  
**EP 09700890 A 20090106**

Priority  
• JP 2009050024 W 20090106  
• JP 2008000301 A 20080107  
• JP 2008268253 A 20081017

Abstract (en)  
[origin: EP2180076A1] This wear-resistant steel plate includes, in terms of mass %, C: not less than 0.13% and not more than 0.18%, Si: not less than 0.5% but less than 1.0%, Mn: not less than 0.2% and not more than 0.8%, P: not more than 0.020%, S: not more than 0.010%, Cr: not less than 0.5% and not more than 2.0%, Mo: not less than 0.03% and not more than 0.30%, Nb: more than 0.03% but not more than 0.10%, Al: not less than 0.01% and not more than 0.20%, B: not less than 0.0005% and not more than 0.0030%, and N: not more than 0.010%, with a remainder being Fe and unavoidable impurities, wherein an element composition is such that HI is 0.7 or greater and Ceq exceeds 0.50, and an HB value (Brinell hardness) at 25°C is not less than 360 and not more than 440.

IPC 8 full level  
**C22C 38/32** (2006.01); **C21D 8/02** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR US)  
**C21D 6/002** (2013.01 - EP US); **C21D 8/02** (2013.01 - KR); **C21D 8/0263** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP KR US); **C22C 38/32** (2013.01 - EP US); **C22C 38/48** (2013.01 - KR)

Cited by  
EP2873747A4; US9982331B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2180076 A1 20100428; EP 2180076 A4 20131023; EP 2180076 B1 20160330**; AU 2009203476 A1 20090716; AU 2009203476 B2 20101007; BR PI0901014 A2 20150623; CN 101680071 A 20100324; CN 101680071 B 20121226; JP 4590012 B2 20101201; JP WO2009087990 A1 20110526; KR 101033711 B1 20110509; KR 20090102791 A 20090930; TW 200940725 A 20091001; TW I341332 B 20110501; US 2010139820 A1 20100610; WO 2009087990 A1 20090716

DOCDB simple family (application)  
**EP 09700890 A 20090106**; AU 2009203476 A 20090106; BR PI0901014 A 20090106; CN 200980000061 A 20090106; JP 2009050024 W 20090106; JP 2009509198 A 20090106; KR 20097014308 A 20090106; TW 97151225 A 20081229; US 53203209 A 20090106