

Title (en)  
STEEL WITH HIGH TEMPER RESISTANCE

Title (de)  
STAHL MIT HOHER GLÜHFESTIGKEIT

Title (fr)  
ACIER À HAUTE RÉSISTANCE AU REVENU

Publication  
**EP 2503016 A4 20130626 (EN)**

Application  
**EP 10830974 A 20101110**

Priority  
• BR PI0904607 A 20091117  
• BR 2010000375 W 20101110

Abstract (en)  
[origin: EP2503016A1] STEEL WITH HIGH TEMPERING RESISTANCE, characterized by a composition of alloying elements consisting essentially of, in percent by mass, C between 0.20 and 0.50, Si lower than 1.0, P lower than 0.030, Cr between 3.0 and 4.0, Mo between 1.5 and 4.0, V between 0.1 and 2.0, Co lower than 1.5, being the remaining composed of Fe and inevitable deleterious substances. The steel is produced by processes involving ingot casting and hot/cold forming, or used with the cast structure; or by processes involving atomization or dispersion of the molten metal, such as powder metallurgy, powder injection or spray forming.

IPC 8 full level  
**C22C 38/22** (2006.01); **C22C 38/18** (2006.01); **C22C 38/24** (2006.01)

CPC (source: EP KR US)  
**C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP KR US); **C22C 38/24** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US)

Citation (search report)  
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• [X] US 2008159901 A1 20080703 - BEGUINOT JEAN [FR], et al  
• [X] JP H04180544 A 19920626 - DAIDO STEEL CO LTD  
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• [A] JP 2001293504 A 20011023 - SUMITOMO METAL IND  
• See references of WO 2011060516A1

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Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2503016 A1 20120926; EP 2503016 A4 20130626**; BR PI0904607 A2 20130702; CA 2781048 A1 20110526; CN 102884215 A 20130116; JP 2013510951 A 20130328; KR 20120102081 A 20120917; MX 2012005737 A 20120613; RU 2012125061 A 20131227; US 2012321505 A1 20121220; WO 2011060516 A1 20110526; ZA 201204354 B 20130131

DOCDB simple family (application)  
**EP 10830974 A 20101110**; BR 2010000375 W 20101110; BR PI0904607 A 20091117; CA 2781048 A 20101110; CN 201080059661 A 20101110; JP 2012539149 A 20101110; KR 20127015570 A 20101110; MX 2012005737 A 20101110; RU 2012125061 A 20101110; US 201013510205 A 20101110; ZA 201204354 A 20120613