

Title (en)
STEEL WIRE MATERIAL AND METHOD FOR PRODUCING SAME

Title (de)
STAHLDRAHTMATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
MATÉRIAU DE FIL-MACHINE ET PROCÉDÉ POUR SA PRODUCTION

Publication
EP 2662468 A4 20150527 (EN)

Application
EP 12732406 A 20120106

Priority

- JP 2011002014 A 20110107
- JP 2012050155 W 20120106

Abstract (en)
[origin: EP2662468A1] The steel wire material of the present invention contains 0.05 to 1.2% of C (mass%; same for the chemical components hereafter), 0.01 to 0.5% of Si, 0.1 to 1.5% of Mn, 0.02% or less (but not 0%) of P, 0.02% or less (but not 0%) of S, and 0.005% or less (but not 0%) of N, with the balance being iron and inevitable impurities. The wire material has a scale layer that is no thicker than 7.0 µm or less. The scale layer has an FeO percentage of 30 to 80 vol% and an Fe₂SiO₄ percentage of less than 0.1 vol%. The scale layer that is formed will not peel when cooled after hot rolling or during storage and transport, but will easily peel during mechanical descaling.

IPC 8 full level
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Citation (search report)

- [XA] EP 1921172 A1 20080514 - KOBE STEEL LTD [JP]
- [XA] JP 2007070728 A 20070322 - KOBE STEEL LTD
- [X] JP 2005281793 A 20051013 - SUMITOMO METAL IND
- [A] JP 2000246322 A 20000912 - KOBE STEEL LTD
- See references of WO 2012093715A1

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

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EP 2662468 A1 20131113; **EP 2662468 A4 20150527**; CN 103314125 A 20130918; CN 103314125 B 20150527; JP 2012144756 A 20120802; JP 4980471 B1 20120718; KR 20130087613 A 20130806; KR 20140076642 A 20140620; US 2013272914 A1 20131017; WO 2012093715 A1 20120712

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