

Title (en)  
IRON-NICKEL-CHROMIUM-SILICON ALLOY

Title (de)  
EISEN-NICKEL-CHROM-SILIZIUM-LEGIERUNG

Title (fr)  
ALLIAGE FER-NICKEL-CHROME-SILICIUM

Publication  
**EP 2162558 A1 20100317 (DE)**

Application  
**EP 08773262 A 20080612**

Priority  
• DE 2008000965 W 20080612  
• DE 102007029400 A 20070626

Abstract (en)  
[origin: CA2690637A1] The invention relates to an iron-nickel-chromium-silicon alloy comprising (in wt.-%) 19 to 34% or 42 to 87% nickel, 12 to 26% chromium, 0.75 to 2.5% silicon, and additives of 0.05% to 1% Al, 0.01 to 1% Mn, 0.01 to 0.26% lanthanum, 0.0005 to 0.05% magnesium, 0.04 to 0.14% carbon, 0.02 to 0.14% nitrogen, and further comprising 0.0005 to 0.07% Ca, 0.002 to 0.020% P, a maximum of 0.01% sulfur, a maximum of 0.005% B, the remainder comprising iron and the usual process-related impurities

IPC 8 full level  
**C22C 19/05** (2006.01); **C22C 38/08** (2006.01)

CPC (source: EP KR US)  
**C22C 19/05** (2013.01 - EP KR US); **C22C 19/058** (2013.01 - US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/08** (2013.01 - KR); **C22C 38/40** (2013.01 - EP US); **H05B 3/12** (2013.01 - US)

Citation (search report)  
See references of WO 2009000230A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**DE 102007029400 A1 20090102**; **DE 102007029400 B4 20140515**; BR PI0813917 A2 20141230; BR PI0813917 A8 20160503; CA 2690637 A1 20081231; CA 2690637 C 20140311; CN 101707948 A 20100512; CN 101707948 B 20141015; EP 2162558 A1 20100317; EP 2162558 B1 20170809; ES 2643635 T3 20171123; JP 2010532425 A 20101007; JP 2013177691 A 20130909; JP 5447864 B2 20140319; JP 5626815 B2 20141119; KR 101335009 B1 20131129; KR 20100022488 A 20100302; MX 2009013253 A 20100125; PL 2162558 T3 20180131; SI 2162558 T1 20171130; US 2010172790 A1 20100708; US 2013200068 A1 20130808; WO 2009000230 A1 20081231

DOCDB simple family (application)  
**DE 102007029400 A 20070626**; BR PI0813917 A 20080612; CA 2690637 A 20080612; CN 200880019857 A 20080612; DE 2008000965 W 20080612; EP 08773262 A 20080612; ES 08773262 T 20080612; JP 2010513639 A 20080612; JP 2013097007 A 20130502; KR 20097026941 A 20080612; MX 2009013253 A 20080612; PL 08773262 T 20080612; SI 200831882 T 20080612; US 201313837325 A 20130315; US 64675609 A 20091223