

Title (en)
Heat resistant aluminium alloy

Title (de)
Warmfeste Aluminiumlegierung

Title (fr)
Alliage d'aluminium résistant à la chaleur

Publication
EP 1757709 B1 20071017 (DE)

Application
EP 06405085 A 20060228

Priority
CH 13712005 A 20050822

Abstract (en)
[origin: EP1757709A1] Heat resistant Al alloy of type AlMgSi of long lasting heat resistance for production of thermally and mechanically strained cast components, where the contents of alloying elements Mg and Si in wt.% in a Cartesian coordinate system is restricted by a polygon A with specific coordinates and the alloy contains (wt.%) : Mn (0.1-1), and maximum amounts of Fe (1.0), Cu (3.0), Ni (2.0), Cr (0.5), Co (0.6), Zn (0.2), Ti (0.2), Zr (0.5), Be (0.008), V (.5), remainder Al and impurities to an individual maximum of 0.05 wt.% and total maximum of 0.2 wt.%.

IPC 8 full level
C22C 21/08 (2006.01)

CPC (source: EP KR NO US)
C22C 21/06 (2013.01 - KR); **C22C 21/08** (2013.01 - EP KR NO US); **C22F 1/05** (2013.01 - EP US)

Cited by
DE102011014590A1; WO2020126198A1; EP2415889A4; DE102011014590A8; US10590518B2; WO2015121635A1; EP3670689A1; EP3670689B1

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)
EP 1757709 A1 20070228; EP 1757709 B1 20071017; AT E376075 T1 20071115; BR PI0603394 A 20070427; BR PI0603394 B1 20140729; CA 2556645 A1 20070222; CA 2556645 C 20140114; CN 100999797 A 20070718; CN 100999797 B 20110126; DE 502006000145 D1 20071129; JP 2007084922 A 20070405; JP 5007086 B2 20120822; KR 101409586 B1 20140620; KR 20070022610 A 20070227; MX PA06009523 A 20070301; NO 20063736 L 20070223; NO 343257 B1 20190102; US 2010074796 A1 20100325

DOCDB simple family (application)
EP 06405085 A 20060228; AT 06405085 T 20060228; BR PI0603394 A 20060822; CA 2556645 A 20060821; CN 200610143179 A 20060822; DE 502006000145 T 20060228; JP 2006222957 A 20060818; KR 20060079102 A 20060822; MX PA06009523 A 20060822; NO 20063736 A 20060821; US 50676506 A 20060818