

Title (en)

Al-Mg-Si cast aluminium alloy containing scandium

Title (de)

Al-Mg-Si-Aluminium-Gusslegierung mit Scandium

Title (fr)

Alliage d'aluminium de coulée du type Al-Mg-Si contenant du scandium

Publication

EP 1682688 B1 20100106 (DE)

Application

EP 04802664 A 20041103

Priority

- DE 2004002425 W 20041103
- DE 10352932 A 20031111

Abstract (en)

[origin: WO2005047554A1] The invention relates to a cast aluminium alloy, comprising at least 1.0 8.0 wt. % magnesium (Mg), > 1.0 4.0 wt. % silicon (Si), 0.01 - < 0.5 wt. % scandium (Sc), 0.005 0.2 wt. % titanium (Ti), 0 0.5 wt. % of an element or group of elements, selected from the group comprising zirconium (Zr), hafnium (Hf), molybdenum (Mo), terbium (Tb), niobium (Nb), gadolinium (Gd), erbium (Er) and vanadium (V), 0 - 0.88 wt. % manganese (Mn), 0 0.3 wt. % chromium (Cr), 0 1.0 wt. % copper (Cu), 0 0.1 wt. % zinc (Zn), 0 0.6 wt. % iron (Fe), 0 0.004 wt. % beryllium (Be) and the remainder aluminium with further impurities to an individual max. of 0.1 wt. % and total max. of 0.5 wt. %.

IPC 8 full level

C22C 21/08 (2006.01); **C22C 21/02** (2006.01); **C22F 1/047** (2006.01)

CPC (source: EP US)

C22C 21/08 (2013.01 - EP US); **C22F 1/047** (2013.01 - EP US)

Cited by

CN109680192A; EP2364794A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005047554 A1 20050526; WO 2005047554 B1 20050714; AT E454480 T1 20100115; DE 10352932 A1 20050616; DE 10352932 B4 20070524; DE 502004010622 D1 20100225; EP 1682688 A1 20060726; EP 1682688 B1 20100106; ES 2339356 T3 20100519; US 2007240796 A1 20071018

DOCDB simple family (application)

DE 2004002425 W 20041103; AT 04802664 T 20041103; DE 10352932 A 20031111; DE 502004010622 T 20041103; EP 04802664 A 20041103; ES 04802664 T 20041103; US 57907504 A 20041103