

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 A1 20060726 (DE)

Application

EP 04802664 A 20041103

Priority

- DE 2004002425 W 20041103
- DE 10352932 A 20031111

Abstract (en)

[origin: US2007240796A1] Cast aluminium alloys comprising 1.0-8.0% in weight magnesium (Mg), >1.0-4.0% in weight silicon (Si), 0.01-<0.5% in weight scandium (Sc), 0.005-0.2% in weight titanium (Ti), 0-0.5% in weight of at least one element or selected from the group consisting of zirconium (Zr), hafnium (Hf), molybdenum (Mo), terbium (Tb), niobium (Nb), gadolinium (Gd), erbium (Er) and vanadium (V), 0-0.8% in weight manganese (Mn), 0-0.3% in weight chromium (Cr), 0-1.0% in weight copper (Cu), 0-0.1% in weight zinc (Zn), 0-0.6% in weight iron (Fe), 0-0.004% in weight beryllium (Be), and the remainder of aluminium with further impurities to an individual maximum of 0.1% in weight and totally maximally 0.5% in weight.

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

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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

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