

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: 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

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CPC (source: EP US)

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

Citation (search report)

See references of WO 2005047554A1

Cited by

CN109680192A; EP2364794A1

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