

Title (en)

ALUMINIUM ALLOY WITH IMPROVED CRUSH PROPERTIES

Title (de)

ALUMINIUMLEGIERUNG MIT VERBESSERTEN STAUCHEIGENSCHAFTEN

Title (fr)

ALLIAGE EN ALUMINIUM PRESENTANT DES PROPRIETES D'ECRASEMENT AMELIOREES

Publication

EP 1987170 A1 20081105 (EN)

Application

EP 07715944 A 20070216

Priority

- NO 2007000057 W 20070216
- NO 20060794 A 20060217

Abstract (en)

[origin: WO2007094686A1] An Al-Mg-Si alloy with improved ductility and crush properties, in particular useful for structural components in crash exposed areas in vehicles. The alloy contains in wt %: Mg 0,25 - 1,2; Si 0,3 - 1,4; Ti 0,03 - 0,4, where Ti is present in solid solution and where the alloy contains in addition one or more of the following alloy components: Mn max 0.6; Cr max 0.3; Zr max 0,25, and incidental impurities, including Fe and Zn up to 0,5 with balance Al.

IPC 8 full level

C22C 21/08 (2006.01); **C22C 21/02** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP US)

C22C 1/06 (2013.01 - EP US); **C22C 21/02** (2013.01 - EP US); **C22C 21/08** (2013.01 - EP US); **C22F 1/05** (2013.01 - EP US)

Citation (search report)

See references of WO 2007094686A1

Citation (third parties)

Third party :

"International Alloy designations and chemical composition limits for wrought aluminum and wrought aluminum alloys", THE ALUMINUM ASSOCIATION, April 2004 (2004-04-01), pages 1 - 35, XP003023672

Cited by

EP2728026A1

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)

WO 2007094686 A1 20070823; **WO 2007094686 A8 20080925**; CN 101384741 A 20090311; EP 1987170 A1 20081105; JP 2009526913 A 20090723; US 2009116999 A1 20090507

DOCDB simple family (application)

NO 2007000057 W 20070216; CN 200780005879 A 20070216; EP 07715944 A 20070216; JP 2008555185 A 20070216; US 22403507 A 20070216