

Title (en)

High strength crash resistant aluminium alloy

Title (de)

Hochfeste und kollisionssichere Aluminiumlegierung

Title (fr)

Alliage d'aluminium haute résistance résistant aux collisions

Publication

EP 2072628 B1 20171018 (EN)

Application

EP 08171736 A 20081216

Priority

- EP 07024596 A 20071219
- EP 08171736 A 20081216

Abstract (en)

[origin: EP2072628A1] The present invention relates to an AlMgSi-type aluminium alloy extruded or forged product having a high impact resistance, the aluminium alloy comprising, in wt. %: Si 0.5 to 0.95, Mg 0.6 to 0.95, Mn 0.1 to 0.3, V 0.05 to 0.25, Ni 0.05 to 0.25, Cu maximum 0.3, optionally one or two element(s) selected from the group consisting of: (Cr 0.05 to 0.2, and Zr 0.05 to 0.2), Zn < 0.2, Fe < 0.5, Ti < 0.1, inevitable impurities and balance aluminium. The invention further relates to a crash box made from such aluminium alloy.

IPC 8 full level

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

CPC (source: EP)

C22C 21/02 (2013.01); **C22C 21/08** (2013.01); **C22F 1/05** (2013.01)

Cited by

CN109097644A; US2018119260A1; CN114032423A; CN114574738A; DE102013018744A1; CN102392157A; CN105483464A; CN105821265A; CN105970008A; US2022380878A1; WO2013162374A1; US10661338B2; WO2024121494A1; EP2841611B1; EP3339457B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2072628 A1 20090624; EP 2072628 B1 20171018

DOCDB simple family (application)

EP 08171736 A 20081216