

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

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CPC (source: EP)

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Cited by

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

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