

Title (en)

MAGNESIUM ALLOYS WITH HIGH-MECANICAL RESISTANCE AND PROCESS FOR OBTAINING THEM BY RAPID SOLIDIFICATION

Publication

EP 0357743 B1 19930929 (FR)

Application

EP 89903172 A 19890223

Priority

- FR 8802885 A 19880226
- FR 8901913 A 19890201

Abstract (en)

[origin: WO8908154A1] Magnesium alloys having a breaking load of at least 290 MPa, in particular at least 330 MPa, having the following composition: Al 2-11 %, Zn 0-12 %, Mn 0-0,6 %, Ca 0-7 %, but with at least the presence of Zn and/or Ca, having an average particle size less than 3 μm , a homogeneous matrix reinforced by intermetallic compounds smaller than 1 μm precipitated at the grain boundaries, this structure remaining unchanged after being maintained for 24h at 200 DEG C; process for producing them by rapid solidification and consolidation by extrusion at a temperature between 200 and 350 DEG C.

IPC 1-7

C22C 23/02

IPC 8 full level

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CPC (source: EP US)

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