Title (en)

HIGHLY DUCTILE MAGNESIUM ALLOYS, METHOD OF PREPARING SAME AND THEIR USE

Title (de)

MAGNESIUMLEGIERUNGEN HOHER DUKTILITÄT, VERFAHREN ZU DEREN HERSTELLUNG UND DEREN VERWENDUNG

Title (fr)

ALLIAGES DE MAGNESIUM A HAUTE DUCTILITE, PROCEDE DE FABRICATION DESDITS ALLIAGES ET LEUR UTILISATION

Publication

EP 1171642 A2 20020116 (DE)

Application

EP 00922597 A 20000403

Priority

- DE 19915238 A 19990403
- EP 0002944 W 20000403

Abstract (en)

[origin: DE19915238A1] Magnesium alloy contains traces of less than 1.8 (wt.%) cadmium, 0.1 Cu, up to 0.05 Fe, up to 0.005 Ni and 0.5-20 Li. The alloy has a tensile strength of at least 227 MPa, an energy absorbed in fracturing of at least 72 J and a breaking elongation of at least 26%. An Independent claim is also included for a process for the production of a semi-finished product comprising melting the alloy at 550-900o C, forming a molded body by casting with or without pressure, and the heat treating.

IPC 1-7

C22C 1/00

IPC 8 full level

C22C 23/00 (2006.01); **C22C 23/02** (2006.01)

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