

Title (en)
METHOD FOR PRODUCING A MAGNESIUM ALLOY BY EXTRUSION MOULDING AND USE OF THE EXTRUSION MOULDED SEMIFINISHED PRODUCTS AND COMPONENTS

Title (de)
VERFAHREN ZUM HERSTELLEN EINER MAGNESIUMLEGIERUNG DURCH STRANGPRESSEN UND VERWENDUNG DER STRANGGEPRESSTEN HALBZEUGE UND BAUTEILE

Title (fr)
PROCEDE PERMETTANT DE PRODUIRE PAR COEXTRUSION UN ALLIAGE DE MAGNESIUM ET UTILISATION DE DEMI-PRODUITS OU DE COMPOSANTS COEXTRUDES

Publication
EP 1183402 B1 20031126 (DE)

Application
EP 00917040 A 20000403

Priority

- DE 19915276 A 19990403
- EP 0002945 W 20000403

Abstract (en)
[origin: EP1295957A2] Production of a magnesium alloy of high ductility comprises extruding the alloy with a deforming degree of at least 1.5. The alloy contains traces of less than 1.8 wt.% Cd, up to 0.1 wt.% Cu, up to 0.005 wt.% Ni and 0.5-20 wt.% Li, and at least 0.1 wt.% of further chemical elements. After extruding, the alloy has a breaking elongation of at least 20%, a compression strength of at least 300 MPa and an energy absorbed in fracturing of at least 70 J.

IPC 1-7
C22C 23/00; **C22C 23/06**; **C22F 1/06**

IPC 8 full level
C22C 23/00 (2006.01); **C22C 23/06** (2006.01); **C22F 1/06** (2006.01)

CPC (source: EP)
C22C 23/00 (2013.01); **C22C 23/06** (2013.01); **C22F 1/06** (2013.01)

Citation (examination)

- EP 0465376 A1 19920108 - PECHINEY ELECTROMETALLURGIE [FR], et al
- Haferkamp, H. et al. "State, Development and Perspectives of Lithium Containing Magnesium Alloys" in Magnesium Alloys and their Applications, 1998, Ed. B.L. Mordike, K.U. Kainer, Werkstoff-Information Gesellschaft mbH, Frankfurt, S. 157-162

Cited by
CN113025857A; US11890004B2; US11998192B2

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DOCDB simple family (application)
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