

Title (en)
Magnesium alloys

Title (de)
Magnesiumlegierungen

Title (fr)
Alliages de magnésium

Publication
EP 1847626 A3 20071031 (EN)

Application
EP 07106312 A 20070417

Priority
JP 2006112941 A 20060417

Abstract (en)
[origin: EP1847626A2] A casting heat-resistance Mg alloy improved in heat resistance without relying upon expensive RE contains Cu. More specifically, it contains Al (8.0 weight %), Cu (1.0-5.0 weight %), Zn (2.0 weight %), Be (0.01 weight %) and Mg (the rest). The alloy can be prevented from deteriorating in corrosion resistance by adjusting the added amount of Cu to 1.0-1.5 weight %. The corrosion resistance of the alloy can be improved more by adding 0.5 to 1.0 weight % Mn as well.

IPC 8 full level
C22C 23/02 (2006.01)

CPC (source: EP KR US)
C22C 23/02 (2013.01 - EP KR US)

Citation (search report)

- [XY] JP 2005054233 A 20050303 - CHIBA INST TECHNOLOGY, et al
- [Y] US 1743849 A 19300114 - GANN JOHN A
- [Y] JP H0853722 A 19960227 - KOBE STEEL LTD
- [Y] JP H06136480 A 19940517 - TOYOTA MOTOR CORP
- [A] SPIEKERMANN P: "LEGIERUNGEN - EIN BESONDERES PATENTRECHTLICHES PROBLEM? - LEGIERUNGSPRUEFUNG IM EUROPÄISCHEN PATENTAMT -", MITTEILUNGEN DER DEUTSCHEN PATENTANWÄLTE, HEYMANN, KOLN., DE, 1993, pages 178 - 190, XP000961882, ISSN: 0026-6884
- [A] GAO H T ET AL: "RECYCLING OF MAGNESIUM ALLOY AZ91 SCRAP BY A B2O3-CONTAINING FLUX", JOURNAL OF MATERIALS SCIENCE, SPRINGER / BUSINESS MEDIA, DORDRECHT, NL, vol. 39, no. 21, 1 November 2004 (2004-11-01), pages 6449 - 6459, XP001501319, ISSN: 0022-2461

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EP3438303A4; US9169542B2; WO2010146804A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1847626 A2 20071024; EP 1847626 A3 20071031; AU 2007201703 A1 20071101; CA 2585318 A1 20071017; CN 101058860 A 20071024; JP 2007284743 A 20071101; KR 20070102952 A 20071022; NO 20071955 L 20071018; US 2008175744 A1 20080724

DOCDB simple family (application)
EP 07106312 A 20070417; AU 2007201703 A 20070417; CA 2585318 A 20070417; CN 200710101310 A 20070416; JP 2006112941 A 20060417; KR 20070036872 A 20070416; NO 20071955 A 20070417; US 78742607 A 20070416