

Title (en)

FIRE-RESISTANT MAGNESIUM ALLOY AND PRODUCTION METHOD THEREFOR

Title (de)

FEUERFESTE MAGNESIUMLEGIERUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ALLIAGE DE MAGNÉSIUM IGNIFUGE ET PROCÉDÉ DE PRODUCTION POUR CELUI-CI

Publication

EP 2987875 A4 20161130 (EN)

Application

EP 14785713 A 20140414

Priority

- JP 2013084866 A 20130415
- JP 2014061105 W 20140414

Abstract (en)

[origin: EP2987874A1] A method of manufacturing a flame-retardant magnesium alloy having mechanical properties of a long period stacking ordered magnesium alloy and having an ignition temperature of 800°C or more is provided. In the method of manufacturing a flame-retardant magnesium alloy, a flame-retardant magnesium alloy which contains a atomic% of Zn, b atomic% of at least one element selected from a group consisting of Gd, Tb, Tm and Lu, and x atomic% of Ca and in which a remaining part is formed of Mg and a, b and x satisfy Formulae 1 to 4 below is melted. $0.2 \leq a \leq 5.0$, $0.5 \leq b \leq 5.0$, $0.5 \leq a + b \leq 0.5$, $b < x \leq 0.5$

IPC 8 full level

C22C 1/02 (2006.01); **B22D 21/04** (2006.01); **B22D 27/04** (2006.01); **C22C 23/04** (2006.01); **C22C 23/06** (2006.01)

CPC (source: EP US)

B22D 21/007 (2013.01 - EP US); **B22D 21/04** (2013.01 - US); **B22D 27/04** (2013.01 - EP US); **C22C 1/02** (2013.01 - EP US); **C22C 23/04** (2013.01 - EP US); **C22C 23/06** (2013.01 - EP US)

Citation (search report)

- [X] EP 1640466 A1 20060329 - UNIV KUMAMOTO [JP], et al
- [A] JP 2010036221 A 20100218 - NAT INST OF ADV IND & TECHNOL
- See references of WO 2014171549A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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