

Title (en)

FIRE-RESISTANT MAGNESIUM ALLOY AND PRODUCTION METHOD THEREFOR

Title (de)

FEUERFESTE MAGNESIUMLEGIERUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ALLIAGE DE MAGNÉSIUM RÉSISTANT AU FEU, ET SON PROCÉDÉ DE PRODUCTION

Publication

**EP 2987874 B1 20191120 (EN)**

Application

**EP 14784615 A 20140414**

Priority

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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.  $0.2 \leq a \leq 5.0$ ,  $0.5 \leq b \leq 5.0$ ,  $0.5 \leq a + b \leq 10$ ,  $0 < x \leq 0.5$

IPC 8 full level

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