

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

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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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