

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 A1 20160224 (EN)

Application

EP 14785713 A 20140414

Priority

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- JP 2014061105 W 20140414

Abstract (en)

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. The method of manufacturing a flame-retardant magnesium alloy comprises a step of melting a flame-retardant magnesium alloy which contains a atomic% of Zn, b atomic% of Y, x atomic% of Ca and a residue of Mg, and a, b and x satisfy formulae 1 to 4 below. $0.5 \leq a < 5.0$ $0.5 < b < 5.0$ $2/3 \leq a - 5/6 \leq b$ $0 < x \leq 0.5$

IPC 8 full level

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