

Title (en)

HIGHLY MOLDED MAGNESIUM ALLOY SHEET AND METHOD FOR MANUFACTURING SAME

Title (de)

HOCHGEFORMTES BLECH AUS EINER MAGNESIUMLEGIERUNG UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

FEUILLE D'ALLIAGE DE MAGNÉSIUM HAUTEMENT MOULÉE ET SON PROCÉDÉ DE FABRICATION

Publication

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Application

EP 17861500 A 20171020

Priority

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Abstract (en)

[origin: EP3530766A2] The present invention relates to a high-formed magnesium alloy sheet and a method of manufacturing the same. One embodiment of the present invention provides a magnesium alloy sheet comprising: 3.0 wt% or less (excluding 0 wt%) of Zn, 1.5 wt% or less (excluding 0 wt%) of Ca, 1.0 wt% or less (excluding 0 wt%) of Mn, balance of Mg and inevitable impurities, for a total of 100 wt%, wherein, the magnesium alloy sheet further comprises 0.3 wt% or less of Al, based on 100 wt% of the entire magnesium alloy sheet, and the magnesium alloy sheet satisfies the following formulas (1) and (2):
$$\frac{[Zn]}{[Ca]} \leq 4.0 \text{ ----- formula (1)}$$
$$[Ca] > [Mn] \text{ ----- formula (2)}$$
[Zn], [Ca], and [Mn] refer to weight percent of each component.

IPC 8 full level

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Citation (search report)

- [X1] WO 2014145672 A1 20140918 - THIXOMAT INC [US], et al
- See references of WO 2018074896A2

Cited by

CN110819920A; EP3561096A4; US11149330B2

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