

Title (en)

METHOD FOR MANUFACTURING A MAGNESIUM ALLOY SHEET

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES MAGNESIUM-LEGIERUNGSBLATTS

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE FEUILLE D'ALLIAGE DE MAGNÉSIUM

Publication

EP 2660343 A1 20131106 (EN)

Application

EP 11853525 A 20111228

Priority

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- JP 2010292518 A 20101228
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- JP 2011080455 W 20111228

Abstract (en)

A magnesium alloy material having high corrosion resistance is provided. The magnesium alloy material contains a magnesium alloy containing 7.3% to 16% by mass Al, wherein a region having an Al content of 0.8x% by mass or more and 1.2x% by mass or less occupies 50% by area or more, a region having an Al content of 1.4x% by mass or more occupies 17.5% by area or less, wherein x% by mass denotes the Al content of the entire magnesium alloy material, and there is substantially no region having an Al content of 4.2% by mass or less. The magnesium alloy material has small variations in Al concentration and includes a few regions having a very low Al content, thereby effectively preventing and retarding local corrosion. Thus, the magnesium alloy material has higher corrosion resistance than die-cast components having the same Al content. The magnesium alloy material may be a sheet, a coiled long sheet, or a formed product.

IPC 8 full level

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CPC (source: EP KR US)

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