

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 B1 20191218 (EN)

Application
EP 11853525 A 20111228

Priority

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- JP 2010292518 A 20101228
- JP 2010292519 A 20101228
- JP 2011080455 W 20111228

Abstract (en)
[origin: EP2660343A1] 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
C22C 23/02 (2006.01); **C22C 23/00** (2006.01); **C22C 23/04** (2006.01); **C22C 23/06** (2006.01); **C22F 1/00** (2006.01); **C22F 1/06** (2006.01)

CPC (source: EP KR US)
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DOCDB simple family (publication)
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