

Title (en)

NON-HEAT TREATED MAGNESIUM ALLOY SHEET WITH EXCELLENT FORMABILITY AT ROOM TEMPERATURE IN WHICH SEGREGATION IS MINIMIZED

Title (de)

UNBEHANDELTE MAGNESIUMLEGIERUNGSFOLIE MIT HERVORRAGENDER FORMBARKEIT BEI RAUMTEMPERATUR UND MINIMALER SEGREGATION

Title (fr)

FEUILLE D'ALLIAGE DE MAGNÉSIUM NON TRAITÉE THERMIQUEMENT AYANT UNE EXCELLENTE APTITUDE AU FAÇONNAGE À LA TEMPÉRATURE AMBIANTE DANS LAQUELLE UNE SÉGRÉGATION EST RENDUE MINIMALE

Publication

**EP 2770072 A2 20140827 (EN)**

Application

**EP 12841026 A 20121015**

Priority

- KR 20110107405 A 20111020
- KR 2012008357 W 20121015

Abstract (en)

Disclosed herein is a non-heat treatable magnesium alloy sheet, including: 1 #¼ 3 wt% of aluminum (Al); 0.5 #¼ 3 wt% of tin (Sn); and a balance of magnesium, wherein the maximum deviation of average Vickers hardness (Hv) thereof, caused by center segregation and inverse segregation, is 10 Hv or less. The non-heat treatable magnesium alloy sheet can remarkably reduce a cast defect such as center segregation, inverse segregation or the like by alloy component control, and has excellent formability compared to that of a conventional commercially available magnesium alloy sheet.

IPC 8 full level

**B22D 21/04** (2006.01); **C22C 23/00** (2006.01); **C22C 23/02** (2006.01)

CPC (source: EP KR US)

**B22D 11/001** (2013.01 - EP US); **B22D 11/0622** (2013.01 - EP US); **B22D 21/04** (2013.01 - KR); **C22C 23/00** (2013.01 - EP KR US); **C22C 23/02** (2013.01 - EP KR US); **C22F 1/06** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 2014205489 A1 20140724**; CN 103781928 A 20140507; CN 103781928 B 20160817; EP 2770072 A2 20140827; EP 2770072 A4 20150617; JP 2014535005 A 20141225; JP 6099656 B2 20170322; KR 101342582 B1 20131217; KR 20130043355 A 20130430; WO 2013058504 A2 20130425; WO 2013058504 A3 20130523

DOCDB simple family (application)

**US 201214237892 A 20121015**; CN 201280040577 A 20121015; EP 12841026 A 20121015; JP 2014536978 A 20121015; KR 20110107405 A 20111020; KR 2012008357 W 20121015