

Title (en)

MANUFACTURING METHOD OF A MAGNESIUM ALLOY FOR ROOM TEMPERATURE APPLICATIONS

Title (de)

HERSTELLUNGSVERFAHREN EINER MAGNESIUMLEGIERUNG FÜR ANWENDUNGEN BEI RAUMTEMPERATUR

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ALLIAGE DE MAGNÉSIUM POUR DES APPLICATIONS À TEMPÉRATURE AMBIANTE

Publication

**EP 2374906 B1 20170315 (EN)**

Application

**EP 11159573 A 20110324**

Priority

- KR 20100028151 A 20100329
- KR 20110001557 A 20110106

Abstract (en)

[origin: EP2374906A1] Provided is a magnesium alloy for room temperature, which is manufactured by adding CaO onto a surface of a molten magnesium alloy and exhausting the CaO through a reduction reaction of the CaO with the molten magnesium alloy. Resultantly, the magnesium alloy with CaO added has more improved room-temperature mechanical properties (tensile strength, yield strength, elongation) than magnesium alloys without using CaO. Furthermore, as the added amount of CaO increases, room-temperature mechanical properties (tensile strength, yield strength, elongation) increase as well.

IPC 8 full level

**B22D 21/00** (2006.01); **C22C 1/06** (2006.01); **C22C 23/02** (2006.01)

CPC (source: EP)

**B22D 21/007** (2013.01); **C22C 1/06** (2013.01); **C22C 23/02** (2013.01)

Cited by

CN110541084A

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)

**EP 2374906 A1 20111012; EP 2374906 B1 20170315**; AU 2011233968 A1 20121018; AU 2011233968 B2 20141016; CA 2794897 A1 20111006; PL 2374906 T3 20170831; RU 2012140398 A 20140510; RU 2543574 C2 20150310; TW 201202435 A 20120116; TW I460280 B 20141111

DOCDB simple family (application)

**EP 11159573 A 20110324**; AU 2011233968 A 20110323; CA 2794897 A 20110323; PL 11159573 T 20110324; RU 2012140398 A 20110323; TW 100110089 A 20110324