

Title (en)

MAGNESIUM HOT ROLLING METHOD AND MAGNESIUM HOT ROLLING APPARATUS

Title (de)

MAGNESIUMWARMWALZVERFAHREN UND MAGNESIUMWARMWALZVORRICHTUNG

Title (fr)

PROCÉDÉ DE LAMINAGE À CHAUD DE MAGNÉSIUM ET APPAREIL DE LAMINAGE À CHAUD DE MAGNÉSIUM

Publication

EP 2208547 A4 20130403 (EN)

Application

EP 08839763 A 20081015

Priority

- JP 2008068654 W 20081015
- JP 2007269058 A 20071016

Abstract (en)

[origin: EP2208547A1] A magnesium alloy hot rolling method includes: a first rolling step in which a magnesium plate (M0, M1) is rolled reciprocatingly between an upstream heating furnace (2) which is located on an upstream side of a rolling mill (1) and which heats the magnesium plate (M0, M1), and a upstream heating furnace (3) which is located on a downstream side of the rolling mill (1) and which heats the magnesium plate (M0, M1); and a second rolling step in which the temperature of respective end portions of the magnesium plate (M0, M1) on both the upstream and downstream sides is maintained while the magnesium plate (M0, M1) is being rolled reciprocatingly between an upstream temperature maintaining apparatus (5) which transports the heated magnesium plate (M0, M1) while maintaining the temperature thereof, and a downstream temperature maintaining apparatus (6) which transports the heated magnesium plate (M0, M1) while maintaining the temperature thereof. According to the magnesium hot rolling apparatus of the present invention and to the magnesium hot rolling method of the present invention which uses this apparatus, it is possible to prevent any deterioration in the quality of a product which is due to temperature variations during the hot rolling of magnesium alloy.

IPC 8 full level

B21B 1/26 (2006.01); **B21B 3/00** (2006.01)

CPC (source: EP US)

B21B 1/34 (2013.01 - EP US); **B21B 3/00** (2013.01 - EP US); **B21B 45/004** (2013.01 - EP US); **B21B 2273/12** (2013.01 - EP US)

Citation (search report)

- [A] US 2004079513 A1 20040429 - PIRCHER HANS [DE], et al
- [A] JP 2003112205 A 20030415 - SUMITOMO METAL IND
- See references of WO 2009051134A1

Cited by

WO2020193112A1; EP3711873A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 2208547 A1 20100721; **EP 2208547 A4 20130403**; **EP 2208547 B1 20140730**; CA 2702659 A1 20090423; CN 101821025 A 20100901; CN 101821025 B 20131030; JP 2009095849 A 20090507; JP 5173347 B2 20130403; KR 101204494 B1 20121126; KR 20100072349 A 20100630; RU 2438806 C1 20120110; TW 200927315 A 20090701; US 2011100083 A1 20110505; WO 2009051134 A1 20090423

DOCDB simple family (application)

EP 08839763 A 20081015; CA 2702659 A 20081015; CN 200880112339 A 20081015; JP 2007269058 A 20071016; JP 2008068654 W 20081015; KR 20107010398 A 20081015; RU 2010119167 A 20081015; TW 97139317 A 20081014; US 68294508 A 20081015