Title (en)

MAGNESIUM ALLOY SHEET AND ITS PRODUCTION

Title (de)

MAGNESIUMSLEGIERUNGSBLECH UND SEINE HERSTELLUNG

Title (fr)

FEUILLE EN ALLIAGE DE MAGNESIUM ET SA PRODUCTION

Publication

EP 1610916 A1 20060104 (EN)

Application

EP 03816013 A 20030922

Priority

- AU 0301243 W 20030922
- AU 2003900971 A 20030228

Abstract (en)

[origin: WO2004076097A1] A method of producing magnesium alloy strip, suitable for use in the production of magnesium alloy sheet by rolling reduction and heat treatment, involves casting magnesium alloy as strip, using a twin roll casting installation. In the casting, the thickness and temperature of the strip exiting from between rolls of the installation are controlled whereby the strip has a microstructure characterised by a primary phase having a form selected from deformed dendritic, equiaxed dendritic and a mixture of deformed and equiaxed dendritic forms. The resultant strip is amenable to production of sheet material by application of a homogenizing heat treatment followed by rolling and annealing.

IPC 1-7

B22D 11/06; B22D 11/16; B22D 21/04; B22D 27/20; C22F 1/06

IPC 8 full level

B22D 11/00 (2006.01); **B22D 11/06** (2006.01); **B22D 11/16** (2006.01); **C22F 1/06** (2006.01)

CPC (source: EP KR US)

B22D 11/001 (2013.01 - EP US); **B22D 11/06** (2013.01 - KR); **B22D 11/0622** (2013.01 - EP US); **B22D 11/16** (2013.01 - EP KR US); **B22D 21/04** (2013.01 - KR); **B22D 27/20** (2013.01 - KR); **C22F 1/06** (2013.01 - EP US)

Citation (third parties)

Third party :

- ROBERT E. "BOB" BROWN: "Developments in magnesium wrought products: rolling and sheet casting", LIGHT METALAGE, February 2002 (2002-02-01), pages 80 - 83, XP002999932
- HAMER S. ET AL.: "Continuous casting and rolling of aluminum: analysis of capacities, product ranges, and technology", LIGHT METALAGE, October 2002 (2002-10-01), pages 6 - 17, XP002999933

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

WO 2004076097 A1 20040910; AU 2003900971 A0 20030313; BR 0318147 A 20060221; CA 2517516 A1 20040910; CN 100333860 C 20070829; CN 1764512 A 20060426; EG 23753 A 20070805; EP 1610916 A1 20060104; EP 1610916 A4 20070228; HR P20050823 A2 20051031; JP 2006513864 A 20060427; KR 20050103509 A 20051031; MX PA05009172 A 20051020; NO 20054041 D0 20050831; NO 20054041 L 20050923; RS 20050720 A 20070921; RU 2005130176 A 20060627; TW 200424325 A 20041116; UA 80466 C2 20070925; US 2006231173 A1 20061019; ZA 200507065 B 20061227

DOCDB simple family (application)

AU 0301243 W 20030922; AU 2003900971 A 20030228; BR 0318147 A 20030922; CA 2517516 A 20030922; CN 03826310 A 20030922; EG NA2005000499 A 20050825; EP 03816013 A 20030922; HR P20050823 A 20050920; JP 2004568602 A 20030922; KR 20057015918 A 20050826; MX PA05009172 A 20030922; NO 20054041 A 20050831; RU 2005130176 A 20030922; TW 93102267 A 20040202; UA 2005008462 A 20030922; US 54647103 A 20030922; YU P20050720 A 20030922; ZA 200507065 A 20030922