

Title (en)

MAGNESIUM MELTING FURNACE AND PROCESS FOR MELTING MAGNESIUM

Title (de)

MAGNESIUMSCHMELZOFEN UND VERFAHREN ZUM SCHMELZEN VON MAGNESIUM

Title (fr)

FOUR POUR FUSION DU MAGNESIUM ET PROCEDE DE FUSION DU MAGNESIUM

Publication

EP 0738334 B1 20011010 (DE)

Application

EP 95937021 A 19951027

Priority

- DE 4439214 A 19941103
- EP 9504232 W 19951027

Abstract (en)

[origin: US5908488A] PCT No. PCT/EP95/04232 Sec. 371 Date Jul. 2, 1996 Sec. 102(e) Date Jul. 2, 1996 PCT Filed Sep. 27, 1995 PCT Pub. No. WO96/14439 PCT Pub. Date May 17, 1995The magnesium melting furnace (1) has a plurality of chambers. The material to be melted is fed into a melting chamber (2) through a charging chute (20), one end of which terminates under the surface of the melting bath. The melt is slowly transferred into a holding chamber (4) through a passage (3) situated in the lower third of a dividing wall (11) above a layer of impurities settling at the bottom (14) of the melting chamber (2). The melt slowly flows through the holding chamber (4), with impurities rising to the surface or settling on the bottom (15). The purified melt flows through a second passage (5) situated in the lower third of a second dividing wall (12) into a metering chamber (6). The melt can be removed from the metering chamber (6) through a transfer pipe (28) using a metering pump (27). The magnesium melting furnace (1) makes it possible to simultaneously melt, purify and remove the magnesium in metered quantities.

IPC 1-7

C22B 26/22; **F27B 17/00**

IPC 8 full level

C22B 9/05 (2006.01); **C22B 26/22** (2006.01); **F27D 3/14** (2006.01); **F27D 27/00** (2010.01); **F27D 3/00** (2006.01); **F27D 3/08** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP US)

C22B 9/055 (2013.01 - EP US); **C22B 26/22** (2013.01 - EP US); **F27D 3/14** (2013.01 - EP US); **F27D 27/00** (2013.01 - EP US); **F27D 3/08** (2013.01 - EP US); **F27D 99/0001** (2013.01 - EP US); **F27D 2003/0054** (2013.01 - EP US); **F27D 2003/0063** (2013.01 - EP US); **Y10S 266/90** (2013.01 - EP US); **Y10S 266/901** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

US 5908488 A 19990601; AT E206770 T1 20011015; AU 3925895 A 19960531; CA 2180351 A1 19960517; DE 4439214 A1 19960509; DE 59509688 D1 20011115; EP 0738334 A1 19961023; EP 0738334 B1 20011010; WO 9614439 A2 19960517; WO 9614439 A3 19960815

DOCDB simple family (application)

US 66940596 A 19960702; AT 95937021 T 19951027; AU 3925895 A 19951027; CA 2180351 A 19951027; DE 4439214 A 19941103; DE 59509688 T 19951027; EP 9504232 W 19951027; EP 95937021 A 19951027