

Title (en)

METHOD AND DEVICE FOR CASTING NON-FERROUS METAL MELTS, IN PARTICULAR COPPER OR COPPER ALLOYS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM VERGIESSEN VON NE-METALLSCHMELZEN, INSBESONDERE KUPFER ODER KUPFERLEGIERUNGEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DESTINÉS À LA COULÉE DE BAINS DE FUSION NON FERREUX, EN PARTICULIER DE CUIVRE ET D'ALLIAGES DE CUIVRE

Publication

EP 2111313 A1 20091028 (DE)

Application

EP 08701107 A 20080115

Priority

- EP 2008000247 W 20080115
- EP 07001253 A 20070120
- EP 08701107 A 20080115

Abstract (en)

[origin: EP1946866A1] In a hot meal casting process for copper or copper alloy sheeting of at least 20 mm thickness, molten metal is discharged from a tundish through channels (2) at a defined angle e.g. 9 degrees to the horizontal. The moving molten metal is maintained at a predefined depth (H) within the tundish. The molten metal is maintained at the same level as it passes through a distribution vessel (1) and then passes almost without delivery pressure into the channel. The molten metal then pours uncovered into a hoop mould (3) with flow maintained until reaching the required depth (7). The molten metal flow speed through the discharge channel is limited by a roughened surface or mechanical elements. Hot metal surface vortices are prevented from mould escape by a rim (13). Gases emerging from the molten metal migrate to the void (11) above the hot metal flow.

IPC 8 full level

B22D 11/06 (2006.01)

CPC (source: EP US)

B22D 11/0642 (2013.01 - EP US)

Citation (search report)

See references of WO 2008087002A1

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 1946866 A1 20080723; CA 2674134 A1 20080724; CL 2008000167 A1 20080530; CN 101616762 A 20091230; CN 101616762 B 20111214; EP 2111313 A1 20091028; EP 2111313 B1 20131106; PE 20081330 A1 20081115; RU 2009131340 A 20110227; RU 2450890 C2 20120520; UA 94793 C2 20110610; US 2010044001 A1 20100225; US 8151866 B2 20120410; WO 2008087002 A1 20080724

DOCDB simple family (application)

EP 07001253 A 20070120; CA 2674134 A 20080115; CL 2008000167 A 20080118; CN 200880002548 A 20080115; EP 08701107 A 20080115; EP 2008000247 W 20080115; PE 2008000157 A 20080118; RU 2009131340 A 20080115; UA A200908697 A 20080115; US 52373808 A 20080115