Title (en)

METHOD AND DEVICE FOR UPHILL CASTING, COMPRISING A CHILL OR CORE STACKINGS WITH AN OPEN POURING GATE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM STEIGENDEN GIESSEN MIT EINER KOKILLE ODER EINEM KERNPAKET MIT OFFENER EINGUSSÖFFNUNG

Title (fr)

PROCEDE ET DISPOSITIF DE COULEE ASCENDANTE A L'AIDE D'UNE COQUILLE OU D'UN ENSEMBLE NOYAU AVEC ORIFICE DE COULEE OUVERT

Publication

EP 1299202 B1 20040303 (DE)

Application

EP 01957943 A 20010710

Priority

- DE 10033625 A 20000711
- EP 0107915 W 20010710

Abstract (en)

[origin: WO0204149A1] The invention relates to a method for uphill casting/low-pressure casting especially light metal alloys involving a casting plate comprising a through hole; a casting furnace lying beneath the casting plate and comprising an ascending pipe which forms an upwards-opening orifice; and a casting mould comprising a base plate which has a downwards-opening pouring gate. Said orifice is joined from below to the through hole in a sealing manner; the pouring gate pertaining to the casting mould is aligned over the through hole; molten metal is transported via the ascending pipe from the casting furnace to the casting mould, filling said casting mould; and the casting mould is displaced horizontally on the casting plate when the connection between the casting furnace and the casting mould is open and filled with molten metal, until the pouring gate is closed below by the casting plate, and the through hole is closed above by the base plate. The molten metal is then left to fall back into the ascending pipe to a point below the orifice.

IPC 1-7

B22D 18/04

IPC 8 full level

B22D 18/04 (2006.01)

CPC (source: EP US)

B22D 18/04 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0204149 A1 20020117; AT E260727 T1 20040315; AU 2001279730 B2 20041028; AU 7973001 A 20020121; BR 0112408 A 20030722; CA 2412935 A1 20021223; DE 10033625 A1 20020131; DE 50101632 D1 20040408; EP 1299202 A1 20030409; EP 1299202 B1 20040303; ES 2217174 T3 20041101; HU P0301499 A2 20030828; MX PA03000288 A 20050923; PL 198944 B1 20080829; PL 359786 A1 20040906; SK 222003 A3 20030911; SK 286623 B6 20090205; US 2003178169 A1 20030925

DOCDB simple family (application)

EP 0107915 W 20010710; AT 01957943 T 20010710; AU 2001279730 A 20010710; AU 7973001 A 20010710; BR 0112408 A 20010710; CA 2412935 A 20010710; DE 10033625 A 20000711; DE 50101632 T 20010710; EP 01957943 A 20010710; ES 01957943 T 20010710; HU P0301499 A 20010710; MX PA03000288 A 20010710; PL 35978601 A 20010710; SK 222003 A 20010710; US 31280003 A 20030529