

Title (en)

METHOD AND DEVICE FOR CASTING MOLTEN METAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM GIESSEN VON METALLSCHMELZE

Title (fr)

PROCEDE ET DISPOSITIF DE COULEE DE METAL EN FUSION

Publication

EP 1786576 B1 20090715 (DE)

Application

EP 05778033 A 20050902

Priority

- EP 2005009469 W 20050902
- DE 102004043444 A 20040906

Abstract (en)

[origin: WO2006027174A1] The invention makes it possible to manufacture high-quality cast parts in a particularly productive manner. According to the inventive method, a casting mould with a filling opening (2) pointing in the direction of gravity (S) is provided during the casting of the molten metal (A), particularly molten aluminium; the casting mould (1) with the filling opening (2) is coupled to a melt container (12) containing the molten metal (A); the molten metal (A) is conveyed from the melt container (12) into the casting mould (1) counter to the direction of gravity; the casting mould (1) is sealed directly after filling with molten metal (A) by means of a locking device (6) which is at least temporarily connected to the casting mould (1) in a fixed manner; the casting mould (1) is decoupled from the melt container (12) directly after closure of the casting mould (1) and the casting mould (1) is rotated about a horizontal axis of rotation (X), wherein the casting mould (1) remains in a sealed position with respect to the locking device (6) which is firmly connected thereto during rotation. The invention also relates to a correspondingly embodied device. .

IPC 8 full level

B22D 18/04 (2006.01)

CPC (source: EP KR US)

B22D 17/26 (2013.01 - KR); **B22D 18/04** (2013.01 - EP KR US); **B22D 18/08** (2013.01 - KR); **B22D 21/04** (2013.01 - KR); **B22D 27/02** (2013.01 - KR)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2006027174 A1 20060316; AU 2005281886 A1 20060316; AU 2005281886 B2 20091029; BR PI0514945 A2 20121030; BR PI0514945 B1 20140218; CA 2578821 A1 20060316; CN 101039766 A 20070919; DE 102004043444 B3 20060614; DE 502005007712 D1 20090827; EP 1786576 A1 20070523; EP 1786576 B1 20090715; ES 2330027 T3 20091203; JP 2008512246 A 20080424; JP 4891245 B2 20120307; KR 20070103355 A 20071023; MX 2007002351 A 20070823; PL 1786576 T3 20091231; US 2008190581 A1 20080814; US 7854251 B2 20101221; ZA 200701400 B 20080628

DOCDB simple family (application)

EP 2005009469 W 20050902; AU 2005281886 A 20050902; BR PI0514945 A 20050902; CA 2578821 A 20050902; CN 200580029843 A 20050902; DE 102004043444 A 20040906; DE 502005007712 T 20050902; EP 05778033 A 20050902; ES 05778033 T 20050902; JP 2007529335 A 20050902; KR 20077007832 A 20070405; MX 2007002351 A 20050902; PL 05778033 T 20050902; US 57469505 A 20050902; ZA 200701400 A 20070216