

Title (en)
METHOD FOR CASTING A CAST PART

Title (de)
VERFAHREN ZUM GIESSEN EINES GUSSTEILS

Title (fr)
PROCÉDÉ DE COULÉE D'UNE PIÈCE À MOULER

Publication
EP 3089841 A1 20161109 (DE)

Application
EP 15705479 A 20150102

Priority
• AT 500032014 A 20140103
• AT 2015050001 W 20150102

Abstract (en)
[origin: WO2015100465A1] The invention relates to a method for casting a cast part according to the tilt pouring principle, in which method molten metal (1) is poured from at least one tiltable casting vessel (2) into a casting mould (3) comprising a mould cavity (4) which forms the cast part and the molten metal (1) is ladled directly out of a bale-out furnace (5) using the casting vessel (2). A metal oxide skin (6) forms in the casting vessel (2) on the surface of the molten metal (1) and the casting vessel (2) containing the molten metal (1) and the metal oxide skin (6) floating thereon is brought up to the casting mould (3). The molten metal (1) is poured from the casting vessel (2) into the casting mould (3) by the common rotation of the casting vessel (2) and the casting mould (3) about a rotational axis (a), from an initial position into a final position, the metal oxide skin (6) rising to the top of the molten metal (1) during the pouring process, floating predominantly on top of the molten metal (1) and substantially remaining on the surface of the molten metal (1).

IPC 8 full level
B22D 23/00 (2006.01); **B22D 1/00** (2006.01); **B22D 21/00** (2006.01); **B22D 27/00** (2006.01); **B22D 39/02** (2006.01); **B22D 47/00** (2006.01)

CPC (source: AT EP KR RU US)
B22D 1/002 (2013.01 - EP KR US); **B22D 21/007** (2013.01 - EP KR US); **B22D 21/027** (2013.01 - AT); **B22D 21/04** (2013.01 - AT RU); **B22D 23/006** (2013.01 - AT EP KR US); **B22D 27/003** (2013.01 - EP KR US); **B22D 27/08** (2013.01 - AT); **B22D 33/02** (2013.01 - US); **B22D 39/026** (2013.01 - EP KR US); **B22D 41/04** (2013.01 - AT RU US); **B22D 41/12** (2013.01 - RU); **B22D 47/00** (2013.01 - EP KR US); **C22C 21/02** (2013.01 - EP US)

Cited by
DE202019100206U1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015100465 A1 20150709; AT 515345 A1 20150815; CN 105934296 A 20160907; CN 105934296 B 20190108; EP 3089841 A1 20161109; EP 3089841 B1 20171101; ES 2656679 T3 20180228; HU E035572 T2 20180528; KR 101987961 B1 20190611; KR 20160106106 A 20160909; MX 2016007706 A 20160909; PL 3089841 T3 20180430; RU 2016131456 A 20180208; RU 2016131456 A3 20181002; RU 2686402 C2 20190425; US 2016311017 A1 20161027; US 9925586 B2 20180327

DOCDB simple family (application)
AT 2015050001 W 20150102; AT 500032014 A 20140103; CN 201580003604 A 20150102; EP 15705479 A 20150102; ES 15705479 T 20150102; HU E15705479 A 20150102; KR 20167020948 A 20150102; MX 2016007706 A 20150102; PL 15705479 T 20150102; RU 2016131456 A 20150102; US 201515103400 A 20150102