

Title (en)

DELIVERY DEVICE FOR A METAL MELT IN AN INJECTION PRESS

Title (de)

FÖRDERVORRICHTUNG FÜR EINE METALLSCHMELZE IN EINEM SPRITZDRUCKAGGREGAT

Title (fr)

DISPOSITIF DE TRANSPORT POUR UN BAIN DE MÉTAL FONDU DANS UNE UNITÉ D'INJECTION SOUS PRESSION

Publication

**EP 2855051 B1 20160629 (DE)**

Application

**EP 13731678 A 20130531**

Priority

- DE 102012010923 A 20120604
- EP 2013001601 W 20130531

Abstract (en)

[origin: CA2874307A1] A delivery device for a metal melt in an injection-moulding machine, for example a metal casting machine, has a storage container for the metal melt and a delivery channel in which the metal melt is fed to a mould cavity. In this case, provision is made for the delivery channel to comprise a cylindrical bore in which a piston is arranged in an axially adjustable manner. Provided for the metal melt is a collection chamber from which the metal melt is introduced into the mould cavity through a continuing line as a result of an axial displacement of the piston. Formed between the outer wall of the piston and the inner wall of the cylindrical bore is an annular space which is connected to the collecting chamber via at least one filling bore. At its end that opens into the collecting chamber, the filling bore is closable by means of a valve body which is connected to an adjustable valve rod which is arranged in a displaceable manner in an axial bore of the piston.

IPC 8 full level

**B22D 17/20** (2006.01); **B22D 39/02** (2006.01)

CPC (source: CN EP US)

**B22D 17/04** (2013.01 - EP US); **B22D 17/2023** (2013.01 - EP US); **B22D 17/203** (2013.01 - EP US); **B22D 17/2038** (2013.01 - EP US); **B22D 17/28** (2013.01 - US); **B22D 17/30** (2013.01 - EP US); **B22D 37/00** (2013.01 - US); **B22D 39/02** (2013.01 - CN); **B22D 41/00** (2013.01 - US); **B22D 17/2015** (2013.01 - CN)

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

DOCDB simple family (publication)

**DE 102012010923 A1 20131205**; CA 2874307 A1 20131212; CA 2874307 C 20200728; CN 104507599 A 20150408; CN 104507599 B 20160824; DK 2855051 T3 20161010; EA 025480 B1 20161230; EA 201492278 A1 20150331; EP 2855051 A1 20150408; EP 2855051 B1 20160629; ES 2593607 T3 20161212; HU E030363 T2 20170529; JP 2015519204 A 20150709; PL 2855051 T3 20161230; PT 2855051 T 20161006; SI 2855051 T1 20161130; US 2015151357 A1 20150604; US 9676024 B2 20170613; WO 2013182284 A1 20131212

DOCDB simple family (application)

**DE 102012010923 A 20120604**; CA 2874307 A 20130531; CN 201380029644 A 20130531; DK 13731678 T 20130531; EA 201492278 A 20130531; EP 13731678 A 20130531; EP 2013001601 W 20130531; ES 13731678 T 20130531; HU E13731678 A 20130531; JP 2015514382 A 20130531; PL 13731678 T 20130531; PT 13731678 T 20130531; SI 201330311 A 20130531; US 201314405525 A 20130531