

Title (en)
INJECTION UNIT FOR A DIE-CASTING MACHINE

Title (de)
GIEßEINHEIT FÜR EINE DRUCKGIEßMASCHINE

Title (fr)
ENSEMBLE D'INJECTION POUR MACHINE A COULER SOUS PRESSION

Publication
EP 2506999 B1 20170104 (DE)

Application
EP 10787072 A 20101124

Priority
• DE 102009057197 A 20091130
• EP 2010068123 W 20101124

Abstract (en)
[origin: WO2011064253A1] The invention relates to a casting unit for a die casting machine, wherein the casting unit comprises a casting chamber body (1) comprising a casting chamber (2) that can be filled with casting material and having a casting material inlet (8) and a casting material outlet (3), and a casting piston (4) that can be moved forward in a longitudinal direction of the casting piston, in order to discharge casting material from the casting chamber under pressure by means of the casting material outlet, and can be moved back, whereby the casting material can be fed into the casting chamber by means of the casting material inlet. According to the invention, the casting piston (4) extends through the through-passage (5) of the casting chamber body (1) into the casting chamber from the outside, wherein a free space area (6) of the casting chamber is formed between an outer surface (4b) of the casting piston moved forward into the casting chamber and an inner wall surface (1c) of the casting chamber body opposite thereto transverse to the longitudinal direction of the casting piston, in that an outer cross section (d) of the casting piston is correspondingly smaller than the inner cross section (D) of the casting chamber body. The invention further relates to the use thereof, e.g. for metal die casting machines.

IPC 8 full level
B22D 17/02 (2006.01); **B22D 17/04** (2006.01); **B22D 17/08** (2006.01); **B22D 17/20** (2006.01)

CPC (source: EP KR US)
B22D 17/02 (2013.01 - EP KR US); **B22D 17/04** (2013.01 - EP KR US); **B22D 17/08** (2013.01 - EP KR US); **B22D 17/2023** (2013.01 - EP KR US); **B22D 17/203** (2013.01 - EP KR US); **B22D 17/2038** (2013.01 - EP KR US)

Citation (examination)
• US 3814170 A 19740604 - KAHN F
• DE 3248423 A1 19840628 - BUEHLER AG GEB [CH]

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EP3919204A1; DE102020207016A1; US11376656B2

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 102009057197 B3 20110519; BR 112012013027 A2 20161122; BR 112012013027 B1 20220719; CN 102712039 A 20121003; CN 102712039 B 20150729; EP 2506999 A1 20121010; EP 2506999 B1 20170104; ES 2617328 T3 20170616; HR P20170511 T1 20170602; JP 2013512106 A 20130411; JP 2015096279 A 20150521; JP 5947216 B2 20160706; KR 101746786 B1 20170613; KR 20120098820 A 20120905; MX 2012006125 A 20120723; PL 2506999 T3 20170731; RU 2012124327 A 20140110; RU 2570266 C2 20151210; US 2012273530 A1 20121101; US 9233417 B2 20160112; WO 2011064253 A1 20110603

DOCDB simple family (application)
DE 102009057197 A 20091130; BR 112012013027 A 20101124; CN 201080054093 A 20101124; EP 10787072 A 20101124; EP 2010068123 W 20101124; ES 10787072 T 20101124; HR P20170511 T 20170329; JP 2012540417 A 20101124; JP 2015000502 A 20150105; KR 20127016642 A 20101124; MX 2012006125 A 20101124; PL 10787072 T 20101124; RU 2012124327 A 20101124; US 201013512544 A 20101124