

Title (en)
INJECTION-MOULDING APPARATUS WITH NEEDLE VALVE NOZZLE

Title (de)
SPRITZGIESSVORRICHTUNG MIT NADELVERSCHLUSSDÜSE

Title (fr)
DISPOSITIF DE MOULAGE PAR INJECTION DOTE D'UNE TUYERE FERMEE PAR POINTEAU

Publication
EP 1989035 A1 20081112 (DE)

Application
EP 06818930 A 20061130

Priority
• EP 2006011494 W 20061130
• DE 202006003244 U 20060227

Abstract (en)
[origin: WO2007098798A1] An injection-moulding apparatus (1) with a feed plate (3) has at least one flow channel (4) with at least one needle valve nozzle which is intended for a flowable material and by virtue of which the flowable material can be fed, with continuation of the flow channel (4), to a separable mould insert. A shut-off needle (20) with a guide bush (30) for conduct and sealing of the shut-off needle (20), which can be brought by means of a drive into an open position and into a closed position, passes through the flow channel (4) at least in sections with capability for longitudinal displacement. For further improvement of the guiding and sealing of the shut-off needle (20), there is, within the guide bush (30), a ring element (60) composed of resilient elastic heat-resistant plastic encompassing and in contact with the shut-off needle (20).

IPC 8 full level
B29C 45/28 (2006.01)

CPC (source: EP KR US)
B29C 45/23 (2013.01 - KR); **B29C 45/28** (2013.01 - KR); **B29C 45/2806** (2013.01 - EP US); **B29C 2045/2889** (2013.01 - EP US)

Citation (search report)
See references of WO 2007098798A1

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)
DE 202006003244 U1 20070705; BR PI0621215 A2 20111206; CA 2643715 A1 20070907; CN 101415531 A 20090422; EP 1989035 A1 20081112; JP 2009528180 A 20090806; KR 20080114765 A 20081231; MX 2008010673 A 20080901; TW 200734159 A 20070916; US 2009028988 A1 20090129; WO 2007098798 A1 20070907

DOCDB simple family (application)
DE 202006003244 U 20060227; BR PI0621215 A 20061130; CA 2643715 A 20061130; CN 200680053486 A 20061130; EP 06818930 A 20061130; EP 2006011494 W 20061130; JP 2008555633 A 20061130; KR 20087023611 A 20080926; MX 2008010673 A 20061130; TW 95144078 A 20061129; US 22438006 A 20061130