Title (en)

METHOD FOR CONTROLLING A VACUUM VALVE OF A VACUUM DIECASTING DEVICE AND VACUUM DIECASTING DEVICE

Title (de)

VERFAHREN ZUM STEUERN EINES VAKUUMVENTILS EINER VAKUUMDRUCKGIESSVORRICHTUNG SOWIE VAKUUMDRUCKGIESSVORRICHTUNG

Title (fr)

PROCEDE DE COMMANDE D'UNE SOUPAPE A VIDE D'UN DISPOSITIF DE MOULAGE SOUS VIDE ET DISPOSITIF DE MOULAGE SOUS VIDE

Publication

EP 1425123 A2 20040609 (DE)

Application

EP 02777076 A 20020912

Priority

• DE 10144945 A 20010912
• EP 0210234 W 20020912

Abstract (en)

[origin: WO03022489A2] The invention relates to a vacuum diecasting device that comprises a casting cavity (10) which can be evacuated via a vacuum valve (26) and into which a liquid casting material can be pressed by a piston (14) that is actuated by an actuator (17). The device further comprises a level sensor (20) for detecting a level of the casting material in the casting cavity, a control device (34), linked with the level sensor, for controlling the vacuum valve, and a position sensor (32), linked with the control device (34), for detecting the movement of the piston (14). The control device produces a close signal for the vacuum valve (26) when the piston, once position (s1) is reached, at which the level sensor (20) indicates a predetermined level of the casting material in the casting cavity (10), has been displaced in a predetermined manner.

IPC 1-7

B22D 17/14; B22D 17/32

IPC 8 full level

B22D 17/14 (2006.01); **B22D 17/32** (2006.01)

CPC (source: EP US)

B22D 17/14 (2013.01 - EP US); **B22D 17/32** (2013.01 - EP US)

Citation (search report)

See references of WO 03022489A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03022489 A2 20030320; **WO 03022489 A3 20030807**; AT E299767 T1 20050815; CA 2460195 A1 20030320; DE 10144945 A1 20030410; DE 10144945 B4 20050504; DE 50203691 D1 20050825; EP 1425123 A2 20040609; EP 1425123 B1 20050720; JP 2005501733 A 20050120; JP 4326330 B2 20090902; US 2005126740 A1 20050616; US 6948549 B2 20050927

DOCDB simple family (application)

EP 0210234 W 20020912; AT 02777076 T 20020912; CA 2460195 A 20020912; DE 10144945 A 20010912; DE 50203691 T 20020912; EP 02777076 A 20020912; JP 2003526605 A 20020912; US 48957705 A 20050124