

Title (en)

Equaliser for forced closure of suction valves in die-casting moulds

Title (de)

Entzerrer für Zwangsverschluss von Einlassventilen in Druckgiessformen

Title (fr)

Egaliseur pour la fermeture forcée de clapets d'aspiration dans les moules de coulée sous pression

Publication

EP 1181998 A3 20020306 (EN)

Application

EP 01830543 A 20010816

Priority

IT BS20000060 U 20000824

Abstract (en)

[origin: EP1181998A2] The invention concerns an equaliser for the forced closure of a suction valve in die-casting moulds. It consists of an external body or casing (11), a central thrust piston (16) guided axially on a guide head (17) and a multiplicity of Belleville washers (18) placed concentrically between piston and body. The Belleville washers (18') are set out in groups on several parallel levels defined by spacers, and each group of Belleville washers lies axially with one part on a collar (19) around the thrust piston and the other part on a support washer (20) in the said body.
<IMAGE>

IPC 1-7

B22D 17/14

IPC 8 full level

B22D 17/14 (2006.01)

CPC (source: EP)

B22D 17/145 (2013.01)

Citation (search report)

- [A] US 4027726 A 19770607 - HODLER FRITZ
- [A] US 3885618 A 19750527 - HODLER FRITZ
- [A] FR 1416039 A 19651029
- [A] CH 454369 A 19680415 - BUEHLER AG GEB [CH]
- [A] US 5488985 A 19960206 - WYSER JOHANN [CH]
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 372 (M - 544) 11 December 1986 (1986-12-11)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1181998 A2 20020227; EP 1181998 A3 20020306; EP 1181998 B1 20061206; AT E347458 T1 20061215; DE 60124992 D1 20070118; DE 60124992 T2 20070920; IT 250560 Y1 20030924; IT BS20000060 U1 20020224; IT BS20000060 V0 20000824

DOCDB simple family (application)

EP 01830543 A 20010816; AT 01830543 T 20010816; DE 60124992 T 20010816; IT BS20000060 U 20000824