

Title (en)

METHOD AND APPARATUS FOR DAMPING THE PRESSURE PEAK OCCURRING AT THE END OF THE DIE FILLING PHASE IN PRESSURE DIE CASTING MACHINES

Publication

EP 0262519 A3 19890201 (DE)

Application

EP 87113613 A 19870917

Priority

- DE 3632925 A 19860927
- DE 3632926 A 19860927

Abstract (en)

[origin: EP0262519A2] 1. Method of damping the pressure peak which occurs at the end of the die filling phase in pressure die casting machines in which arranged between the piston rod (2) of the pressure piston (15) and that of the injection piston (14) there is a hydraulic damping device (16) with a damping space (9) whose inlet (30) may be closed and opened by a control piston (4) with a control edge (11), whereby the momentum of the control piston (4) is used when the injection piston (14) is decelerated to open the inlet (30) to the damping space (9) of the damping device (16), characterised in that the end face of the control piston (4) directed towards the injection piston (14) is acted on by a gaseous medium at ambient pressure, whereby during the return of the pressure piston (15) the pressure of the gaseous medium is increased and/or the pressure in the damping space (9) is reduced until the control edge (11) of the control piston (4) has again closed the inlet (30) to the damping space (9).

IPC 1-7

B22D 17/32

IPC 8 full level

B22D 17/32 (2006.01)

CPC (source: EP)

B22D 17/32 (2013.01)

Citation (search report)

- [AD] DE 3433121 C1 19851205 - MUELLER WEINGARTEN MASCHF
- [A] EP 0186002 A1 19860702 - MAHLE GMBH [DE]
- [AD] DE 2818061 A1 19791108 - LUCAS INDUSTRIES LTD

Cited by

WO2023046891A1; CN111644593A; AU632711B2; US5363899A; WO2007034002A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0262519 A2 19880406; EP 0262519 A3 19890201; EP 0262519 B1 19900718; DE 3763790 D1 19900823

DOCDB simple family (application)

EP 87113613 A 19870917; DE 3763790 T 19870917