

## Title (en)

PRESSURE DIE CASTING MACHINE FOR METALLIC ARTICLES WHICH MAY CONTAIN CERAMIC FIBRES

## Publication

**EP 0270466 B1 19890927 (FR)**

## Application

**EP 87420297 A 19871030**

## Priority

FR 8615437 A 19861031

## Abstract (en)

[origin: US4777998A] The invention relates to an apparatus for pressure casting of metal parts which possibly contain fibres of ceramic material. The apparatus includes a cold chamber, and comprises a lower fixed plate 1, an upper movable plate 2, and a die 3 disposed between the upper plate and the lower plate, with the lower plate being provided with an injection means for liquid metal comprising an injection sleeve 5 having a piston 6 supported on a rod 7 slidable in the sleeve. The metal is contained in a sealed vessel connected to the injection sleeve by a conduit 9 by way of an orifice 8 in the sleeve, with a gas inlet in the vessel connected to a source of gas for selectively placing the liquid metal in the vessel under a gas pressure P2 which causes the flow of liquid metal in the conduit towards the sleeve. A second gas inlet is located in the conduit near the orifice, this second gas inlet able to selectively create a gas pressure P1 in a pocket adjacent to the inlet, depending on the position of the piston and the gas pressure P2.

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## Cited by

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## Designated contracting state (EPC)

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**US 4777998 A 19881018**; AR 241762 A1 19921230; AT E46640 T1 19891015; AU 586786 B2 19890720; AU 8045687 A 19880505; BR 8705803 A 19880531; CA 1302045 C 19920602; DE 3760607 D1 19891102; DK 160467 B 19910318; DK 160467 C 19910930; DK 566687 A 19880501; DK 566687 D0 19871029; EP 0270466 A1 19880608; EP 0270466 B1 19890927; ES 2010716 B3 19891201; FI 82620 B 19901231; FI 82620 C 19910410; FI 874796 A0 19871030; FI 874796 A 19880501; FR 2605913 A1 19880506; GR 3000173 T3 19901231; IE 62774 B1 19950222; IE 872921 L 19880430; IS 1397 B6 19891031; IS 3275 A7 19880502; JP H0230789 B2 19900709; JP S63115664 A 19880520; KR 880004876 A 19880627; KR 910009368 B1 19911114; MX 169523 B 19930709; NO 167635 B 19910819; NO 167635 C 19911127; NO 874507 D0 19871029; NO 874507 L 19880502; PT 86026 A 19881130; PT 86026 B 19930831; SU 1637659 A3 19910323

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