

Title (en)  
PRESSURE CASTING PROCESS

Publication  
**EP 0099104 A3 19840222 (DE)**

Application  
**EP 83106811 A 19830711**

Priority  
BG 5740582 A 19820714

Abstract (en)  
[origin: EP0099104A2] 1. Pressure casting process in which the melt is conveyed from a melt container (1) through a duct (2) for material to a hollow chamber of a casting mould (3) under the effect of a pressure differential between the melt container (1) and the casting mould (3) and in which, after the filling of the hollow chamber (4) of the casting mould (3), the melt is cooled at additionally produced elevated pressure, with the melt being exposed in the casting mould (3) to a double-sided final pressing, characterised in that a residual space (5) of the casting mould (3) is exposed during the charging to an essentially elevated additional gas pressure as remotely applied final pressure and this increased additional gas pressure is balanced by means of a variable counter pressure on the side of the casting entry opening as casting side final pressure until there is complete charging of the casting mould.

IPC 1-7  
**B22D 18/00**

IPC 8 full level  
**B22D 18/06** (2006.01); **B22D 17/00** (2006.01); **B22D 17/14** (2006.01); **B22D 18/00** (2006.01); **B22D 18/02** (2006.01)

CPC (source: EP)  
**B22D 18/00** (2013.01)

Citation (search report)  
• [Y] EP 0005239 A1 19791114 - LEIBFRIED DIETER DR ING [DE]  
• [Y] FR 2340158 A1 19770902 - FATA SPA [IT]  
• [A] DE 1178979 B 19641001 - BALGARSKA AKADEMIA NA NAUKITE  
• [X] MACHINERY AND PRODUCTION ENGINEERING, Band 108, 23. Februar 1966, Seiten 432-434

Cited by  
EP0585598A1; US6321825B1; DE3618059A1; EP0221196A1; GB2294000A; US5787961A; GB2294000B; US6053997A; US8434460B2

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**EP 0099104 A2 19840125; EP 0099104 A3 19840222; EP 0099104 B1 19871007**; AT E30126 T1 19871015; AU 1669083 A 19840119; AU 558220 B2 19870122; BG 34491 A1 19831015; BR 8303740 A 19840221; CS 235980 B2 19850515; CS 530583 A2 19840618; DD 265994 A3 19890322; DE 3373986 D1 19871112; DK 315283 A 19840115; DK 315283 D0 19830707; ES 524043 A0 19840601; ES 8405299 A1 19840601; HU 198276 B 19890928; IN 159558 B 19870523; JP S5947062 A 19840316; NO 161783 B 19890619; NO 161783 C 19890927; NO 832548 L 19840116; PL 242987 A1 19840312; RO 87711 A 19851130; RO 87711 B 19851101; SU 1389933 A1 19880423

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**EP 83106811 A 19830711**; AT 83106811 T 19830711; AU 1669083 A 19830708; BG 5740582 A 19820714; BR 8303740 A 19830713; CS 530583 A 19830713; DD 25296783 A 19830711; DE 3373986 T 19830711; DK 315283 A 19830707; ES 524043 A 19830712; HU 243283 A 19830706; IN 850CA1983 A 19830708; JP 12751183 A 19830713; NO 832548 A 19830713; PL 24298783 A 19830713; RO 11161683 A 19830713; SU 7773038 A 19830706