

Title (en)
Injection assembly with pressure booster for pressure die-casting machines, and pressure die-casting machine provided with the injection assembly

Title (de)
Vorrichtung zur Erhöhung der Einspitzdruck beim druckgiessen und so ausgerüstete Spritzgiessmaschine

Title (fr)
Dispositif d'amplification de pression d'injection de coulée sous pression et machine à couler sous pression équipée de ce dispositif

Publication
EP 1604755 A1 20051214 (EN)

Application
EP 05005109 A 20050309

Priority
IT MI20040769 A 20040420

Abstract (en)
An injection assembly with pressure booster for pressure die-casting machines, which includes a main injection piston (7) that is actuated by a pressurized liquid that is allowed to flow by a check valve (13), and a booster piston (17), which is arranged so that it can slide axially with respect to the main piston (7), wherein the multiplier piston (17) is separated from the check valve (13) and is arranged downstream thereof along the advancement direction of the main injection piston (7).

IPC 1-7
B22D 17/20

IPC 8 full level
B22D 17/20 (2006.01)

CPC (source: EP)
B22D 17/203 (2013.01)

Citation (search report)
• [A] US 3605871 A 19710920 - WHITEHEAD RICHARD K SR, et al
• [A] FR 2518914 A1 19830701 - MUELLER WEINGARTEN MASCHF [DE]
• [A] DE 4101551 A1 19920723 - JANOWSKI GMBH [DE]
• [A] US 4690629 A 19870901 - HORIKAWA YOICHI [JP]
• [A] PATENT ABSTRACTS OF JAPAN vol. 004, no. 167 (M - 042) 19 November 1980 (1980-11-19)
• [A] HEMON Y: "PISTONS D'INJECTION DES MACHINES A COULER SOUS PRESSION A CHAMBRE FROIDE", FONDERIE, FONDEUR D'AUJOURD'HUI, EDITIONS TECHNIQUES DES INDUSTRIES DE LA FONDERIE, PARIS, FR, no. 105, 1 May 1991 (1991-05-01), pages 33 - 41, XP000205431, ISSN: 0249-3136

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EP 05005109 A 20050309; AT 05005109 T 20050309; DE 602005000538 T 20050309; IT MI20040769 A 20040420