

Title (en)  
Control of an injection moulding device.

Title (de)  
Regelung einer Druckgussvorrichtung.

Title (fr)  
Contrôle d'une machine d'injection.

Publication  
**EP 0512630 A1 19921111 (FR)**

Application  
**EP 92201229 A 19920502**

Priority  
FR 9105857 A 19910510

Abstract (en)  
The molten metal constituting the core is forced back under pressure into a mould by means of a positive displacement (proportioning) pump, the pressure of the forced-back metal is measured and the flow rate of the pump is adapted so that the increasing pressure imposed on the forced-back molten metal does not experience sudden variation throughout the cycle of filling of the mould. <??>The method uses a measuring device 5 permitting recording of the pressure of the forced-back metal and uses a rapid-regulation loop 12 which controls the flow rate of a positive displacement (proportioning) pump 3 forcing the molten metal back into the cavity of a mould 1. <IMAGE>

IPC 1-7  
**B22D 17/32**

IPC 8 full level  
**B22D 17/32** (2006.01)

CPC (source: EP US)  
**B22D 17/32** (2013.01 - EP US)

Citation (search report)  
• [Y] DE 3142811 A1 19830505 - IDRA PRESSEN GMBH [DE]  
• [Y] GB 2138174 A 19841017 - UBE INDUSTRIES  
• [Y] DE 3410228 A1 19841004 - TOSHIBA MACHINE CO LTD [JP]  
• [XD] GIESSEREI vol. 78, no. 5, 1991, DUESSELDORF pages 146 - 150; L. ITEN: 'Neue Druckgussmaschinen mit digitaler Echtzeitregelung des Giessvorgangs'  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 8, no. 280 (M-347)(1717) 21 Décembre 1984 & JP-A-59 150 652 ( UBE KOSAN K.K. ) 28 Août 1984

Cited by  
EP0697263A1; US5671797A

Designated contracting state (EPC)  
BE DE ES FR GB IT

DOCDB simple family (publication)  
**EP 0512630 A1 19921111; EP 0512630 B1 19960828**; DE 69213086 D1 19961002; DE 69213086 T2 19970327; FR 2676190 A1 19921113; FR 2676190 B1 19960105; US 5240064 A 19930831

DOCDB simple family (application)  
**EP 92201229 A 19920502**; DE 69213086 T 19920502; FR 9105857 A 19910510; US 88065892 A 19920511