

Title (en)  
INJECTION DEVICE FOR INTERNAL COMBUSTION ENGINES COMPRISING A CONTROL VALVE AND A VALVE FOR CONTROLLING THE SUPPLY OF FUEL TO AN INJECTION DEVICE

Title (de)  
EINSPRITZEINRICHTUNG FÜR BRENNKRAFTMASCHINEN MIT EINEM STEUERVENTIL UND VENTIL ZUM STEUERN DER KRAFTSTOFFZUFUHR IN EINER EINSPRITZEINRICHTUNG

Title (fr)  
SYSTEME D'INJECTION POUR MOTEURS A COMBUSTION INTERNE, COMPRENANT UNE SOUPAPE DE COMMANDE, ET SOUPAPE DE COMMANDE D'AMENEE DE CARBURANT DANS UN SYSTEME D'INJECTION

Publication  
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Application  
**EP 03724856 A 20030401**

Priority  
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Abstract (en)  
[origin: WO03087566A1] A known control valve, especially for controlling a piston of a pressure intensifier (9) of an injection device for internal combustion engines is already known per se. Said control valve comprises a control valve housing (1), fluid lines (5) and a control valve piston (3) which can be displaced in a controlled manner in the housing in at least two operational positions (I, II, III). Said piston controls at least the fluidic connection between a first chamber (7) and a second chamber (9) having a first flow rate (D1) or a reduced second flow rate (D2). In order to produce said control valve which enables the precise control of the reduced second flow rate and which is simple to construct, a throttle (15, 17) is provided. Said throttle adjusts the reduced second flow rate (D2) and is arranged outside the control valve piston (3) and in front of the second chamber (9).

IPC 1-7  
**F02M 45/02**; **F02M 59/46**; **F02M 59/10**; **F02M 57/02**

IPC 8 full level  
**F02M 45/02** (2006.01); **F02M 45/06** (2006.01); **F02M 47/00** (2006.01); **F02M 57/02** (2006.01); **F02M 59/10** (2006.01); **F02M 59/34** (2006.01); **F02M 59/46** (2006.01); **F16K 11/07** (2006.01); **F16K 27/02** (2006.01); **F16K 27/04** (2006.01)

CPC (source: EP US)  
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Citation (search report)  
See references of WO 03087566A1

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