

Title (en)  
INJECTION PUMP FOR INTERNAL-COMBUSTION ENGINES

Publication  
**EP 0347581 B1 19930203 (DE)**

Application  
**EP 89108890 A 19890518**

Priority  
DE 3820707 A 19880618

Abstract (en)  
[origin: JPH0237166A] PURPOSE: To ensure a predetermined relatively high pressure to be the end control pressure by having a pressure maintenance valve arranged in a reservoir chamber to function as the valve that opens away from the reservoir chamber. CONSTITUTION: A plunger 1 is supported in a casing 3 which has a suction chamber 4. Fuel is delivered into the suction chamber via a pipe joint member 5, and excess fuel is discharged from the suction chamber. A plunger 2 closes a control hole 7 by means of an upper edge 6 thereof during the lift process of the plunger. Before that, fuel pressure is already formed by the lift of the plunger 2 in a reservoir chamber 9 for throttling the fuel displaced from a pump chamber 8. A collection chamber is formed as the reservoir chamber 9 having a pressure maintenance valve 11. The pressure maintenance valve 11 is formed as the valve that opens away from the reservoir chamber 9.

IPC 1-7  
**F02M 55/00**; **F02M 59/44**; **F02M 59/46**

IPC 8 full level  
**F02M 59/26** (2006.01); **F02M 55/00** (2006.01); **F02M 55/04** (2006.01); **F02M 59/44** (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP US)  
**F02M 55/001** (2013.01 - EP US); **F02M 55/04** (2013.01 - EP US); **F02M 59/46** (2013.01 - EP US); **F02M 63/005** (2013.01 - EP US)

Cited by  
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Designated contracting state (EPC)  
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**EP 0347581 A1 19891227**; **EP 0347581 B1 19930203**; DE 3820707 A1 19891221; DE 58903432 D1 19930318; JP 2721243 B2 19980304; JP H0237166 A 19900207; US 5015160 A 19910514

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