

Title (en)  
FUEL INJECTION DEVICE

Publication  
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Application  
**EP 89122631 A 19891208**

Priority  
DE 3841462 A 19881209

Abstract (en)  
[origin: EP0372562A1] The invention has the object of improving a known fuel injection device, which comprises an injection pump element with an electromagnetically actuated control valve body, mounted in the latter, for controlling the beginning of delivery and the delivery quantity, in such a way that the injection pump element and the control valve are individually exchangeable and that the control valve body moves onto its seat without rebound. <??>The solution comprises a control valve (2) which is arranged with clearance in a stepped hole (19) of a plunger sleeve (5) and is mounted in sealing elements (20). The freedom from rebound is achieved by matching a minimum spacing (46) between an armature plate (30) and an electromagnetic regulating device (7), the armature plate (30) being situated in a fluid-filled damping space (33) and the minimum spacing (46) being optimised as a function of the mass of the moving parts of the control valve (2), the spring stiffness of a control valve seat (25), the geometry of an armature plate (30) and the viscosity of the fuel in the operating temperature range. <??>The invention is suitable for diesel engines. <IMAGE>

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IPC 8 full level  
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