

Title (en)

DIRECTLY CONTROLLED FUEL INJECTION DEVICE FOR A RECIPROCATING INTERNAL COMBUSTION ENGINE

Title (de)

DIREKTGESTEUERTE KRAFTSTOFFEINSPRITZEINRICHTUNG FÜR EINE KOLBENBRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT A COMMANDE DIRECTE POUR UN MOTEUR A COMBUSTION INTERNE A PISTONS

Publication

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Application

EP 00988800 A 20001215

Priority

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- EP 0012777 W 20001215

Abstract (en)

[origin: WO0153688A2] The invention relates to a fuel injection device for a reciprocating internal combustion engine, comprising a nozzle part (5) with an injection nozzle (13), said nozzle part having a pressure chamber (10) in which a nozzle needle (9) that closes the injection nozzle (13) is guided. Said nozzle needle can be moved into the opening position when subjected to pressure by the fuel to be injected. The pressure chamber (10) is connected to a control part (7) by a connecting channel (6), this control part having a valve chamber (21) into which the connecting channel (6) and a high pressure channel (8) that is connected to a fuel supply (4) open, and in which a valve body (23) is guided. Said valve body (23) acts as a piston system and is held in the closing position by a valve spring and a valve seat (22). The nozzle part also comprises an actuator part (20) which is functionally connected to the valve body (23) and which when activated, moves said valve body in the opening direction and releases the through-flow from the high pressure channel (8) into the connecting channel (6).

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