

Title (en)

FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES.

Title (de)

KRAFTSTOFFEINSPRITZPUMPE FÜR BRENNKRAFTMASCHINEN.

Title (fr)

POMPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE.

Publication

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Application

**EP 90910587 A 19900726**

Priority

- DE 3927742 A 19890823
- DE 9000573 W 19900726

Abstract (en)

[origin: WO9102897A1] A fuel injection pump, in particular for direct injection of fuel in externally ignited internal combustion engines, has at least one pump that generates a current of fuel under pressure and a rotary slide valve (2) that moves in synchronicity with the motor shaft of the internal combustion engine in order to link the current of fuel to at least one injection inlet (18) of the internal combustion engine and/or to deviate the current of fuel subject to the pressure of the pump into a return pipe (13). The movement of the rotary slide valve (2) in the direction of its axis of rotation (14) is limited and/or the rotary slide valve (2) is mounted in such a way that its rotation in relation to its rotary drive is limited. Preferably, the rotary or displacement position of the rotary slide valve can be set depending on a running parameter of the internal combustion engine. The axial mobility of the rotary slide valve prevents it from being jammed in its guide (3) and the running parameter-dependent regulation allows the moment of injection to be adjusted over a wider angular range than would be usually possible, given the geometric limitations in the design of the rotary slide valve.

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IPC 8 full level

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