

Title (en)

FUEL INJECTION DEVICE FOR FUEL-INJECTED INTERNAL COMBUSTION ENGINES.

Title (de)

KRAFTSTOFFEINSPRITZEINRICHTUNG FÜR EINSPRITZBRENNKRAFTMASCHINEN.

Title (fr)

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

Publication

EP 0469142 B1 19950405 (DE)

Application

EP 91905879 A 19910220

Priority

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- AT 39890 A 19900221

Abstract (en)

[origin: WO9113252A1] In a fuel injection device for fuel-injected internal combustion engines in which a pump piston (7) and a pump piston bush (9) or control sleeve (22) are rotatable in relation to each other and the delivery end is determined by at least one oblique control edge (1) over which is located an overflow drilling (2), whereby there is a by-pass piston (38) guided in a cylinder communicating with the high-pressure chamber to obtain pre- and main injection, and whereby the volume released by the by-pass piston determines the injection interval between pre- and main injection, the oblique control edge (1) has, in the zero-feed region, a recess (4) which returns towards a position of rotation corresponding to an increase in flow. The distance between the point (28) at which the oblique control edge (1) makes the transition to the recess (4) from the control edge (8) controlling the start of fuel feed is greater than the diameter of the overflow drilling (2). This recess increases the zero-feed region and shifts it towards increased feed. This reduces the necessary regulating angle without increasing the slope of the oblique control edge (1).

IPC 1-7

F02M 45/06; **F02M 59/26**

IPC 8 full level

F02M 45/06 (2006.01); **F02M 59/26** (2006.01)

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