

Title (en)

ACCUMULATOR FUEL-INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

EINSPRITZANORDNUNG FÜR EIN KRAFTSTOFF-SPEICHEREINSPRITZSYSTEM EINER VERBRENNUNGSMASCHINE

Title (fr)

DISPOSITION D'INJECTION POUR UN SYSTEME D'INJECTION DE CARBURANT A ACCUMULATEUR DANS UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: WO0188366A1] The invention relates to an injection assembly for an accumulator fuel-injection system comprising an injection nozzle (16) which projects into a combustion chamber and can be supplied with fuel from a high-pressure fuel distributor (10) via a high-pressure fuel supply route (14, 52, 44, 40) and a nozzle needle (30) which opens and closes the nozzle depending on the pressure in a control chamber (58). The fuel is supplied to the control chamber by a supply channel (62), branching off from the fuel supply route and opening into said chamber and the fuel flows out of the control chamber via an outflow route (66, 78) from said chamber. A downstream section (66") of the outflow route can be shut off in relation to an upstream section (66'), using a shut-off valve (70). The downstream and upstream sections of the outflow route open into a valve chamber (78), in which an adjustable shut-off element is positioned (76). A bypass channel (74) which opens into the outflow route branches off from the fuel supply route, for supplying an additional stream of fuel to the control chamber. In order to minimize the interference to the outflow of the fuel, the mouth of the bypass channel opens into the outflow route in the vicinity of the valve chamber.

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