

Title (en)
A FUEL INJECTOR FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
INJECTEUR DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE

Publication
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Application
EP 95927656 A 19950711

Priority

- DK 92794 A 19940809
- DK 9500300 W 19950711

Abstract (en)
[origin: WO9605425A1] A fuel injector (1) has a through-going fuel passage (6) opening out into a nozzle (7). A compression spring (17) acts on a longitudinally displaceable valve slider (13) in the closing direction. A first piston (21) at one end of the compression spring delimits, together with a stationary component (9), a first pressure chamber (28) which communicates with the fuel passage (6) through a channel (24). A second pressure chamber (34) is delimited by the first piston and a second piston (29). When the first piston is pressed away from an extreme position with a minimum volume in the chamber by the fuel pressure in the first pressure chamber, a flow connection (35) is opened between the two chambers so that pressure is built up in the second pressure chamber. The pressure build-up in the chambers generates an automatic loading of the compression spring. The oil confined in the second chamber keeps the compression spring loaded while the fuel injector is in its closed position.

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