

Title (en)
INJECTOR

Title (de)
EINSPRITZDÜSE

Title (fr)
INJECTEUR

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Application
EP 05707910 A 20050201

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Abstract (en)
[origin: WO2005098229A1] The invention relates to an injector for an internal combustion engine, especially for use in a motor vehicle. Said injector comprises an injector needle for controlling injection of fuel through at least one orifice, and an actuator for driving a coupling piston (15). The injector needle or a needle set (10) including the injector needle has a control surface (19) that at least partially delimits a control chamber (18). Said control surface (18) communicates with a coupling chamber (16) which is at least partially delimited by the coupling piston (15). The aim of the invention is to simplify the design of the injector of the aforementioned type. For this purpose, the control surface (19) is located on the injector needle or on the needle set (10) facing away from the at least one orifice and the actuator drives the coupling piston (15) for opening the injector needle in such a manner that a volume of the coupling chamber (16) is increased.

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