

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFF-INJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

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Application
EP 09779562 A 20090527

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Abstract (en)
[origin: WO2010009932A1] The invention relates to a fuel injector (1) and, in particular, to a common-rail injector for injecting fuel into a combustion chamber of an internal combustion engine with a multi-part injection valve element (21), which can be adjusted between an open position and a closed position, wherein a first part (22) and a second part (23) of the injection valve element (21) are coupled to one another via a hydraulic coupler (24), which is bounded radially by a first guide (53) for the first part (22) and by a second guide (54) for the second part (23). According to the invention, at least some sections of the first and the second guide (53, 54) are surrounded at their outer radii by fuel under high pressure, and the pressure realized in the hydraulic coupler (24) is lower than the pressure radially outside the guides (53, 54).

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