

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

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Application
EP 22802657 A 20221108

Priority
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Abstract (en)
[origin: WO2023079163A1] The present invention relates to a fuel injector for injecting a fuel into a combustion chamber of an internal combustion engine, in particular a diesel engine, which comprises a feed opening for feeding in fuel, at least one outlet opening for outputting the fuel, a nozzle needle which is movable between a closed position, in which the at least one outlet opening is closed, and an open position, in which the at least one outlet opening is opened, and a primary valve which is arranged downstream of the feed opening and upstream of the nozzle needle and is designed to establish a fluid connection between the feed opening and the nozzle needle only when a positive pressure is exceeded by a region upstream of the primary valve with respect to a region downstream of the primary valve. The fuel injector is characterized by a safety valve which is arranged downstream of the feed opening and upstream of the nozzle needle and is designed to establish a fluid connection between the feed opening and the nozzle needle only when a positive pressure is exceeded by a region downstream of the safety valve with respect to a region upstream of the safety valve.

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