

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFF-INJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 3380715 A1 20181003 (DE)

Application
EP 16775741 A 20161005

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• DE 102015223043 A 20151123
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Abstract (en)
[origin: WO2017089017A1] The invention relates to a fuel injector, in particular a common-rail injector (1), comprising an injector housing (2), in which a nozzle needle (8), which is arranged in such a way that the nozzle needle can be moved in a reciprocating manner, is arranged in a high-pressure chamber (6) in order to open and close at least one injection opening (5), which nozzle needle bounds a control chamber (20) by means of one end face and interacts with a nozzle body seat (10) by means of the other end face in order to open and close the injection opening (5). The nozzle needle (8) has a first sleeve-shaped supporting element (14), to which force is applied in the closing direction of the nozzle needle (8). In addition, the nozzle needle (8) has a second sleeve-shaped supporting element, which surrounds the nozzle needle (8) and which is arranged in the direction of the end face of the nozzle needle (8) that is close to the control chamber. The second supporting element (16) is arranged at a distance from the first supporting element (14) axially in the closing direction of the nozzle needle (8). At least one of the stop surfaces (33, 34) of the first (14) sleeve-shaped supporting element or of the second (16) sleeve-shaped supporting element that face each other has at least one cut-out (36).

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Citation (search report)
See references of WO 2017089017A1

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