

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFINJEKTOR

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
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Application  
**EP 16718375 A 20160426**

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Abstract (en)  
[origin: WO2016206834A1] The invention relates to a fuel injector (10) comprising an injector housing (11) in which an element (15), arranged to be movable up and down, is provided for at least indirect injection of fuel into the combustion chamber of an internal combustion engine, wherein the element (15) projects into a control chamber (20) which can be pressure-relieved via discharge bore (28) into a leakage oil chamber (30), wherein the discharge bore (28) can be closed by means of a valve element (39) on the side in the leakage oil chamber (30) facing away from the control chamber (20), wherein the valve element (39) is accommodated in a positive locking way at least in areas in an accommodation body (38) arranged to be moveable up and down along a longitudinal axis (18), wherein the leakage oil chamber (30) has a conically designed area (31) on the side facing the discharge bore (28), and wherein the accommodation body (38) has a conically designed area (44) on the side facing the valve element (39). According to the invention, at least one projection (45) extends from the conical area (44) in the radial direction, and in the area of the projection, the cross-section of the accommodation body (38) broadens in a direction running perpendicular to the longitudinal axis (18).

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