

Title (en)
FUEL INJECTION SYSTEM COMPRISING COMPENSATION ELEMENT

Title (de)
BRENNSTOFF-EINSPRITZANLAGE MIT AUSGLEICHSELEMENT

Title (fr)
SYSTÈME D'INJECTION DE CARBURANT AVEC UN ÉLÉMENT DE COMPENSATION

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Application
EP 08774247 A 20080624

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Abstract (en)
[origin: US2010186717A1] The present invention relates to a fuel injection system for the direct injection of fuel into a combustion chamber of an internal combustion engine. At least one fuel injection valve is arranged on a cylinder head in a receiving bore in order to inject fuel into the combustion chamber. A fuel distribution line is provided for feeding the fuel to the fuel injection valve. A compensation element for a position compensation and/or tolerance compensation, is arranged in the radial direction between the fuel injection valve and the cylinder head and is arranged in the axial direction of the fuel injection valve between a first sealing element, sealing between the fuel injection valve and the cylinder head on a side facing the combustion chamber of the fuel injection valve, and a second sealing element, sealing between the fuel injection valve and the fuel distribution line. Further provided is a support ring, which is arranged between the fuel injection valve and the cylinder head and which provides support for the fuel injection valve in the axial direction on a step of the receiving bore and which has a clearance in the radial direction.

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