

Title (en)
FUEL INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFFEINSPRITZANLAGE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
INSTALLATION D'INJECTION DE CARBURANT POUR UN MOTEUR À COMBUSTION INTERNE

Publication
EP 3276155 B1 20190605 (DE)

Application
EP 17001172 A 20170710

Priority
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Abstract (en)
[origin: US2018030942A1] A fuel injection system designed for an internal combustion engine includes at least one fuel injection nozzle which, by way of a cylindrical shell body, is inserted at least in regions into a bore of a cylinder head and which, by way of a nozzle tip, feeds fuel to a combustion chamber between the cylinder head and a reciprocating piston. The fuel injection nozzle is held in position on a housing section of the internal combustion engine with the interposition of a holding device and, for example, a fastening bolt. The holding device braces a first end region of the fuel injection nozzle against a bore stop within the bore in the cylinder head. To optimize this fuel injection system, the holding device has, outside the bore, a fixing bushing to which the shell body is fixed axially and radially by way of a radial insert element. A spring system acts between a first radial stop of the fuel injection nozzle and a second radial stop of the fixing bushing as viewed in the axial direction of the shell body of the fuel injection nozzle. The spring system seeks to move the fixing bushing, by way of a third radial stop, against a locking element system of the insert element, which is supported on a fourth radial stop applied to the shell body.

IPC 8 full level
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