

Title (en)

FUEL NOZZLE OF AN INTERNAL COMBUSTION ENGINE COMPRISING A DIRECT INJECTION NOZZLE

Title (de)

KRAFTSTOFFEINSPRITZD SE EINER BRENNKRAFTMASCHINE MIT DIREKTEINSPRITZDUESE

Title (fr)

BUSE D'INJECTION DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE A BUSE D'INJECTION DIRECTE

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Application

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Abstract (en)

[origin: WO2004007949A1] The invention relates to a fuel nozzle, characterised by a sealing body that opens to the exterior and a nozzle housing with a nozzle seat and a nozzle needle. According to the invention, the sealing body of the fuel nozzle, which can be displaced by means of the nozzle needle, lies against a sealing surface of the nozzle seat during a closed position and is displaced towards the exterior during an operating position, in such a way that the fuel is introduced through a gap configured between the nozzle seat and the sealing body into a combustion chamber of the internal combustion engine in the form of a hollow cone. At least one turbulence cavity is provided in the nozzle seat and/or the sealing body in the vicinity of the sealing surface.

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