

Title (en)

FUEL INJECTION VALVE ARRANGEMENT FOR INTERNAL COMBUSTION ENGINES

Title (de)

KRAFTSTOFFEINSPRITZVENTILANORDNUNG FÜR BRENNKRAFTMASCHINEN

Title (fr)

ARRANGEMENT D'UNE SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication

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Application

EP 96901242 A 19960209

Priority

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- DE 19508636 A 19950310

Abstract (en)

[origin: DE19508636A1] A fuel injection valve for internal combustion engines has a piston-shaped valve member (27) axially guided in a valve body (19) axially braced against a valve retaining body (25) by a tensioning nut (23). The area of the valve body (19) around the inlet of a supply duct (59) into a pressure chamber (51) in the valve body (19) is exposed to very high compression forces. In order to prevent the valve body (19) from breaking in this area, the bearing surface (9) of the tensioning nut (23) formed by its front face at the side of the combustion chamber and a complementary stop (7) that is mounted in the housing of the internal combustion engine and that co-operates with the bearing surface (9), as well as a ring-shaped shoulder (65) of the tensioning nut (23) that surrounds the valve body (19) and a ring-shaped depression (67) in the valve body (19) that co-operates with the ring-shaped shoulder (65), are all conically shaped.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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