

Title (en)

Fuel injection valve with integrated spark plug

Title (de)

Brennstoffeinspritzventil mit integrierter Zündkerze

Title (fr)

Soupape d'injection de carburant à bougie intégrée

Publication

**EP 1431571 B1 20060329 (DE)**

Application

**EP 04000412 A 19990401**

Priority

- DE 19828849 A 19980627
- EP 99924738 A 19990401

Abstract (en)

[origin: DE19828849A1] A fuel injection valve has an integrated spark plug (1) for direct injection of fuel into a combustion chamber of an IC engine and to ignite the fuel injected into the combustion chamber. There is a valve body (7) which forms a sealing seat together with a valve closing body (10) which at least one outlet opening (12) adjoins at an end face of the valve body facing the combustion chamber. There is a housing body (2) insulated from the valve body. At least one ignition electrode (70) is provided on the housing body in order to generate a spark discharge between the valve body and the ignition electrode. The ignition electrode and the valve body are shaped so that the spark discharge takes place between the end face of the valve body facing the combustion chamber and the ignition electrode. The end face of the valve body facing the combustion chamber and/or the ignition electrode has/have an edge (74-92) near the outlet opening in order to fix the position of the spark discharge at the end face of the valve body in reproducible fashion relative to the position of the outlet opening.

IPC 8 full level

**F02M 57/06** (2006.01); **F02M 51/06** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR US)

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DOCDB simple family (publication)

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