

Title (en)

FUEL INJECTION VALVE WITH INTEGRATED SPARK PLUG

Title (de)

BRENNSTOFFEINSPRITZVENTIL MIT INTEGRIERTER ZÜNDKERZE

Title (fr)

SOUPAPE D'INJECTION DE CARBURANT A BOUGIE INTEGREE

Publication

EP 1032761 B1 20040929 (DE)

Application

EP 99922069 A 19990324

Priority

- DE 9900861 W 19990324
- DE 19828848 A 19980627

Abstract (en)

[origin: DE19828848A1] 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) that can be operated by a valve needle (9); an insulating body (6) radially surrounding the valve body and the valve needle at least partly; and a housing body (2) radially surrounding the insulating body at least partly. At least one ignition electrode (15,16) is provided on the valve body and/or the housing body. The valve needle has a first metal guide section guided in the valve body, a second metal guide section guided in the insulating body and an insulating section located between the guide sections. The guide sections are connected in positive locking fashion with the insulating section.

IPC 1-7

F02M 57/06; **F02M 61/16**

IPC 8 full level

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