

Title (en)

FUEL INJECTION VALVE WITH AN INTEGRATED IGNITING DEVICE

Title (de)

BRENNSTOFFEINSPRITZVENTIL MIT INTEGRIERTER ZÜNDVORRICHTUNG

Title (fr)

SOUPAPE D'INJECTION DE CARBURANT A DISPOSITIF D'ALLUMAGE INTEGRE

Publication

EP 1751422 A1 20070214 (DE)

Application

EP 05726241 A 20050318

Priority

- EP 2005051262 W 20050318
- DE 102004024535 A 20040518

Abstract (en)

[origin: WO2005113975A1] A fuel injection valve (1) with an integrated igniting device (38, 39, 41, 42) comprises a first pair of electrodes (38, 39) for igniting fuel directly injected into a combustion chamber of an internal combustion engine via discharge openings (7) of the fuel injection valve (1). The pair of electrodes (38, 39) is comprised of a ground electrode (38) and of a center electrode (39) that are interspaced by a spark gap (41). The fuel injection valve (1) and the injection device (38, 39, 41, 42) are housed in a common housing (40). The igniting device (38, 39, 41, 42) comprises at least one additional spark gap (46) or another pair of electrodes (44, 45).

IPC 8 full level

F02M 57/06 (2006.01); **F02M 51/06** (2006.01)

CPC (source: EP US)

F02M 51/0671 (2013.01 - EP US); **F02M 57/06** (2013.01 - EP US); **F02M 2200/24** (2013.01 - EP US)

Citation (search report)

See references of WO 2005113975A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

WO 2005113975 A1 20051201; DE 102004024535 A1 20051215; DE 502005004411 D1 20080724; EP 1751422 A1 20070214;
EP 1751422 B1 20080611; JP 2006524781 A 20061102; JP 4243629 B2 20090325; US 2008072871 A1 20080327

DOCDB simple family (application)

EP 2005051262 W 20050318; DE 102004024535 A 20040518; DE 502005004411 T 20050318; EP 05726241 A 20050318;
JP 2006518238 A 20050318; US 59645305 A 20050318