

Title (en)

Electrically activated fuel injection valve and method of electrical contact.

Title (de)

Elektrisch betätigbares Brennstoffeinspritzventil und Verfahren zu dessen elektrischer Kontaktierung.

Title (fr)

Injecteur de carburant à commande électrique en méthode de contact électrique.

Publication

EP 0517004 B1 19950823 (DE)

Application

EP 92107956 A 19920512

Priority

DE 4118512 A 19910606

Abstract (en)

[origin: EP0517004A1] In known fuel injection valves, which can be secured on a fuel distributor by rotation about their longitudinal axis, the first electric contact elements project out of the valve housing parallel to the longitudinal axis of the valve. Such fuel injection valves can be electrically contacted by means of a multiple plug which can be placed on the fuel distributor in the direction of the longitudinal axis of the valve, but this has a particularly large overall height. <??>In the new fuel injection valve (1), the first electric contact elements (19) extend outwards in a radial direction. An electrically conducting connection between the first electric contact elements (19) and the second electric contact elements (45) which contact the fuel injection valve (1) can be established by turning the fuel injection valve (1) about its longitudinal axis (7). In this way, simple, very compact and reliable electric contacting of the fuel injection valves is achieved. <??>The electrically activated fuel injection valve according to the invention is suitable, in particular, for fuel injection systems of mixture-compressing applied-ignition (spark ignition) internal combustion engines. <IMAGE>

IPC 1-7

F02M 61/14; **F02M 51/00**; **H01R 13/213**

IPC 8 full level

F02M 51/00 (2006.01); **F02M 51/02** (2006.01); **F02M 51/06** (2006.01); **F02M 61/14** (2006.01); **F02M 69/46** (2006.01); **H01R 13/213** (2006.01)

CPC (source: EP US)

F02M 51/005 (2013.01 - EP US); **F02M 61/145** (2013.01 - EP US); **F02M 69/465** (2013.01 - EP US); **H01R 13/213** (2013.01 - EP US)

Cited by

FR2739743A1; WO02061267A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0517004 A1 19921209; **EP 0517004 B1 19950823**; DE 4118512 A1 19921210; DE 59203341 D1 19950928; JP 3129520 B2 20010131; JP H05172017 A 19930709; US 5226391 A 19930713; US 5323749 A 19940628

DOCDB simple family (application)

EP 92107956 A 19920512; DE 4118512 A 19910606; DE 59203341 T 19920512; JP 14548992 A 19920605; US 3096793 A 19930312; US 89505592 A 19920608