

Title (en)

Fuel injection valve for internal combustion engines

Title (de)

Kraftstoffeinspritzventil für Brennkraftmaschinen

Title (fr)

Soupape d'injection de combustible pour moteurs à combustion interne

Publication

EP 0864743 A3 20010808 (DE)

Application

EP 97120314 A 19971120

Priority

DE 19709795 A 19970310

Abstract (en)

[origin: EP0864743A2] The fuel injection valve has in a valve body (1) an axially sliding valve member (5) which has a sealing face (7) at one end. With this face it works together with a valve seating face (9) on the valve body to control an injection cross-section. From the seating face, at least one injection opening leads into the combustion chamber. There is an electrical control member (23) operating the valve member axially through a hydraulic working chamber (19). A second electrical control member (27) is provided to operate the valve member, controlled independently of the first one. The hydraulic working chamber is bounded by a valve piston (17) connected to the valve member and by adjusting pistons (25,29) connected to the control members.

IPC 1-7

F02M 47/04

IPC 8 full level

F02M 47/00 (2006.01); **F02M 47/04** (2006.01); **F02M 51/06** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 47/046 (2013.01); **F02M 51/0603** (2013.01); **F02M 2200/704** (2013.01)

Citation (search report)

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- [A] DE 4306072 A1 19940908 - SIEMENS AG [DE]
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- [PA] US 5669355 A 19970923 - GIBSON DENNIS H [US], et al

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DOCDB simple family (application)

EP 97120314 A 19971120; DE 19709795 A 19970310; DE 59710265 T 19971120; JP 5534598 A 19980306