

Title (en)

Fuel injection system for an internal combustion engine

Title (de)

Kraftstoffeinspritzanlage für eine Brennkraftmaschine

Title (fr)

Système d'injection de combustible pour un moteur à combustion interne

Publication

EP 0900932 B1 20020911 (DE)

Application

EP 98110449 A 19980608

Priority

DE 19738397 A 19970903

Abstract (en)

[origin: EP0900932A1] The fuel injection system includes a dual fuel injection nozzle (12), with a pressure chamber (11) where fuel and an addition fluid are alternating supplied. A valve arrangement, has a controllable high-pressure fuel supply to the dual fuel injection nozzle. The connection of the pressure room with a low-pressure side and with an inlet conductor (26) of the additional fluid are also controllable. The valve arrangement includes a switching valve (16) which is formed, both for the control of the supply of the pressure chamber with high or low pressure, as well as for the control of the filling of the pressure chamber with the additional fluid.

IPC 1-7

F02M 43/04; **F02M 47/02**; **F02M 59/46**

IPC 8 full level

F02M 25/00 (2006.01); **F02D 19/08** (2006.01); **F02M 25/022** (2006.01); **F02M 37/00** (2006.01); **F02M 43/00** (2006.01); **F02M 43/04** (2006.01); **F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

F02M 43/04 (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 63/0007** (2013.01 - EP US); **F02M 63/0047** (2013.01 - EP US); **F02M 63/0049** (2013.01 - EP US)

Cited by

CN102084117A; EP3483420A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0900932 A1 19990310; **EP 0900932 B1 20020911**; DE 19738397 A1 19990318; DE 59805489 D1 20021017; JP H11148436 A 19990602; US 5979410 A 19991109

DOCDB simple family (application)

EP 98110449 A 19980608; DE 19738397 A 19970903; DE 59805489 T 19980608; JP 24707498 A 19980901; US 13781798 A 19980821