Title (en)

Electromagnetic fuel injector.

Title (de)

Elektromagnetisches Einspritzventil.

Title (fr)

Injecteur électromagnétique de carburant.

Publication

EP 0042799 A2 19811230 (EN)

Application

EP 81400990 A 19810619

Priority

- US 16222980 A 19800623
- US 16223080 A 19800623
- US 16223180 A 19800623
- · US 16223280 A 19800623
- US 16234880 A 19800623
- US 16234980 A 19800623

Abstract (en

An electromagnetic fuel injector having an energizable stator means (10) for controlling the movement of a valve member of a valve assembly (10) to open and close the injector and thereby meter fuel, said valve assembly comprising a valve housing (30, 32) including a valve housing bore (92) terminating with a valve seat (56) which is connected to an exit orifice, a valve assembly (60) including a valve (60) reciprocally located in said valve housing bore, operable to close said exit orifice by sealing said valve seat (56) with a ball valve (60), a swirl chamber (43) for imparting to the fuel flow exhausted from the exit orifice a swirl component that is tangential with respect to the spray axis of the injector, and means (40) for supplying fuel from a pressurized source to said swirl chamber, characterized in that said fuel supply means includes means (70) forming a hollow cylinder (42) of fuel between said source and said swirl chamber, and at least one orifice (52) communicating fuel between said fuel cylinder forming means (70) and said swirl chamber (43).

IPC 1-7

F02M 51/08

IPC 8 full level

F02M 51/06 (2006.01); F02M 51/08 (2006.01); F02M 61/16 (2006.01); F02M 63/00 (2006.01)

CPC (source: EP

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Cited by

US6027050A; US5209408A; EP0232475A1; EP1916410A3; DE3335169A1; US5875972A; US2015226167A1; US10145346B2; GB2215398A; EP0296628A3; US5098016A; WO9749911A1; WO9636807A1; WO9109222A1; WO9105951A1; WO9910648A1; WO9835159A1; US6182912B1; US8191797B2

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