

Title (en)

Electromagnetic valve and its use as a fuel injector valve.

Title (de)

Elektromagnetisches Ventil und seine Verwendung als Brennstoffeinspritzventil.

Title (fr)

Clapet à commande électromagnétique et l'utilisation comme clapet d'injection de combustible.

Publication

EP 0006769 A1 19800109 (EN)

Application

EP 79301297 A 19790705

Priority

JP 9179678 U 19780705

Abstract (en)

An electromagnetic valve (10) for controlling fluid flow comprises a magnetic spherical valve member (20) movably disposed in a fluid chamber (F1, F2) to which fluid is admitted, a non-magnetic valve seat member (22) on which the spherical valve member (20) is seatable, a main magnetic pole member (28a) disposed opposite the valve seat member (22) and in close proximity to the spherical valve member (20) to attract the valve member thereto, and a side magnetic pole member (P) disposed around the spherical valve member (20) and in close proximity to the valve member, the side magnetic pole member (P) being spaced from and between the level of the extreme end of the main magnetic pole member (28a) and the level of the extreme end of the valve seat member (22), so that a magnetic field formed between the main and side magnetic pole members (28a, P) effectively acts on the spherical valve member (20) so as to shorten the response time and stability in the action of the electromagnetic valve.

IPC 1-7

F02M 51/08

IPC 8 full level

F02M 51/08 (2006.01); **F02M 69/14** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP)

F02M 69/145 (2013.01)

Citation (search report)

- DE 2719729 A1 19771117 - PLESSEY HANDEL INVESTMENT AG
- DD 97026 A5 19730412
- [A] DE 2300458 A1 19730712 - RENAULT [FR], et al

Cited by

CN111658247A; EP0063952A1; US4531679A; GB2147690A; EP0067628A3; US5820032A; US4981282A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0006769 A1 19800109; **EP 0006769 B1 19811111**; DE 2961313 D1 19820114; JP S559902 U 19800122; JP S603425 Y2 19850130

DOCDB simple family (application)

EP 79301297 A 19790705; DE 2961313 T 19790705; JP 9179678 U 19780705