

Title (en)
Servo valve for an injector and injector

Title (de)
Servoventil für ein Einspritzventil und Einspritzventil

Title (fr)
Servovalve pour un injecteur et injecteur

Publication
EP 0976924 A3 20010613 (DE)

Application
EP 99112980 A 19990705

Priority
DE 19834667 A 19980731

Abstract (en)
[origin: EP0976924A2] The servo valve is used for the fuel injection valve of an internal combustion engine. There is a control space (4) above a piston (6) which is connected to the fuel injector needle. The contact space is connected with a second space (20) via a first throttle channel (3). A high-pressure bore (1) is connected to the second space via a wide access bore. Fuel may leave the control space via a bore (9) leading to a second throttle bore. There is a valve body (26) moved by a pushrod (16) attached to a piezoelectric actuator (18). The valve body is hemispherical and its flat surface may seal against a flat surface (24) at the end of the metal block containing the second space. The hemispherical surface is surrounded by a valve chamber (22) and when the valve body is in its upper position it engages a valve seat (28) to block off return flow to the fuel supply.

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F02M 47/02

IPC 8 full level
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CPC (source: EP)
F02M 47/027 (2013.01); **F02M 63/0026** (2013.01); **F02M 63/0036** (2013.01); **F02M 63/0045** (2013.01)

Citation (search report)
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• [A] EP 0426205 A2 19910508 - GANSER MARCO ALFREDO [CH]
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