

Title (en)

Pressure regulating valve for an accumulator-type fuel injection system for internal combustion engines

Title (de)

Druckregelventil für ein Speicherkraftstoffeinspritzsystem für Brennkraftmaschinen

Title (fr)

Souape de régulation de pression pour système d'injection de combustible à accumulation pour moteurs à combustion interne

Publication

**EP 1092863 A3 20030702 (DE)**

Application

**EP 00120442 A 20000919**

Priority

DE 19949814 A 19991015

Abstract (en)

[origin: EP1092863A2] The valve has an axially guided piston-shaped valve element movable against the force of a closing spring and that acts on a closure element and presses it against a valve seat. The valve element forms the armature of an electromagnet supplied with current to augment the closing force of the spring and has guide sections offset in the axial direction that guide it in the bore and has a reduced cross-section outside the guide section region.

IPC 1-7

**F02M 59/46**; **F02M 63/02**

IPC 8 full level

**F02M 51/00** (2006.01); **F02M 55/02** (2006.01); **F02M 59/46** (2006.01); **F02M 63/02** (2006.01); **F02M 69/54** (2006.01)

CPC (source: EP US)

**F02M 51/005** (2013.01 - EP US); **F02M 63/0052** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 63/025** (2013.01 - EP US); **F02M 69/54** (2013.01 - EP US)

Citation (search report)

- [Y] DE 3716072 A1 19871217 - BOSCH GMBH ROBERT [DE]
- [Y] EP 0195261 A2 19860924 - BOSCH GMBH ROBERT [DE]
- [DY] RIESENBERG K O: "Dieselmotor-Management", DIESELMOTOR-MANAGEMENT, VIEWEG: WIESBADEN, DE, 1998, pages 95, XP002196204, ISBN: 3-528-03873-X

Cited by

CN101881244A; EP1262659A3; EP1262659A2; US7121264B2; WO03083286A1

Designated contracting state (EPC)

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**EP 1092863 A2 20010418**; **EP 1092863 A3 20030702**; DE 19949814 A1 20010419; JP 2001132578 A 20010515; US 6349703 B1 20020226

DOCDB simple family (application)

**EP 00120442 A 20000919**; DE 19949814 A 19991015; JP 2000312410 A 20001012; US 68811400 A 20001016