

Title (en)

High pressure hydraulic valve, in particularly for an internal combustion engine fuel injection apparatus

Title (de)

Ventil zur Steuerung einer Verbindung in einem Hochdruckflüssigkeitssystem, insbesondere einer Kraftstoffeinspritzeinrichtung für eine Brennkraftmaschine

Title (fr)

Soupape hydraulique à haute pression, notamment pour un dispositif d'injection de carburant d'un moteur

Publication

EP 1335128 A3 20041020 (DE)

Application

EP 03001990 A 20030131

Priority

DE 10205218 A 20020208

Abstract (en)

[origin: EP1335128A2] Valve for controlling a fuel injection unit for an I.C. engine comprises a valve part (72) which slides in the longitudinal direction (73) and protrudes into a valve pressure chamber (77) having a temporary high pressure. The valve part has a sealing surface (81) on a front side running across its longitudinal axis. The sealing surface is surrounded by an annular surface (84) on the front side of the valve part, the annular surface being arranged at a distance from a valve seat (79). The valve part has several openings (86) distributed over its periphery. An Independent claim is also included for a fuel injection unit for an I.C. engine. Preferred Features: The openings run radially to the longitudinal axis of the valve part and are formed by grooves arranged in the sealing surface and open to the valve seat. The annular surface has an approximate conical shape.

IPC 1-7

F02M 59/36; **F02M 59/46**; **F02M 47/02**; **F02M 57/02**

IPC 8 full level

F02M 51/06 (2006.01); **F02M 47/02** (2006.01); **F02M 51/00** (2006.01); **F02M 57/02** (2006.01); **F02M 59/36** (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP US)

F02M 47/027 (2013.01 - EP US); **F02M 57/023** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 63/0035** (2013.01 - EP US); **F02M 63/0045** (2013.01 - EP US); **F02M 2200/04** (2013.01 - EP US)

Citation (search report)

- [DA] EP 0840003 A1 19980506 - LUCAS IND PLC [GB], et al
- [A] EP 0438162 A1 19910724 - KLOECKNER HUMBOLDT DEUTZ AG [DE]

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AU2013201856B2; EP1476655B1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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