

Title (en)

INJECTION VALVE, IN PARTICULAR FOR A COMMON RAIL INJECTION SYSTEM

Title (de)

EINSPRITZVENTIL, INSBESONDERE FÜR COMMON-RAIL-EINSPRITZSYSTEME

Title (fr)

SOUPAPE D'INJECTION, EN PARTICULIER POUR SYSTEMES D'INJECTION A RAMPE COMMUNE

Publication

EP 1218630 A2 20020703 (DE)

Application

EP 00975823 A 20001004

Priority

- DE 0003480 W 20001004
- DE 19947772 A 19991005

Abstract (en)

[origin: DE19947772A1] The invention relates to an injection valve, in particular for a common rail injection system comprising a control cylinder directly connected to a nozzle needle which can be moved in the longitudinal direction. A control chamber is encompassed thereby. Said chamber is connected via an inlet throttle to a fuel high pressure source and is connected to a low pressure chamber via an outlet throttle, whereby the outlet throttle is connected to an outlet control valve. Said outlet control valve is connected to a positioning member which is in turn connected to a control unit. Said control unit can be opened and closed. The aim of the invention is to provide a technically easy to assemble, improved hydraulic control system in particular wherein in future even more sub-divided injection procedures (multijet-system) can be performed employing precise and rapid control procedures. An inlet control valve is provided wherewith the inlet throttle can be opened and closed in the reverse direction to the outlet control valve.

IPC 1-7

F02M 1/00

IPC 8 full level

F02M 47/02 (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 63/0026** (2013.01); **F02M 2200/701** (2013.01); **F02M 2547/003** (2013.01)

Citation (search report)

See references of WO 0125608A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19947772 A1 20010419; AU 1381101 A 20010510; CN 1377444 A 20021030; CZ 20021171 A3 20031015; EP 1218630 A2 20020703; WO 0125608 A2 20010412; WO 0125608 A3 20011129

DOCDB simple family (application)

DE 19947772 A 19991005; AU 1381101 A 20001004; CN 00813855 A 20001004; CZ 20021171 A 20001004; DE 0003480 W 20001004; EP 00975823 A 20001004