

Title (en)
Pump injector

Title (de)
Pumpe-Düse-Einheit

Title (fr)
Injecteur-pompe

Publication
EP 1598547 A3 20060315 (DE)

Application
EP 05010741 A 20050518

Priority
DE 102004024926 A 20040519

Abstract (en)
[origin: EP1598547A2] The pump-nozzle unit for the injection of a medium, especially fuel, includes a pump (2) with a piston (3), and a pressure chamber (5) hydraulically connected to a nozzle chamber (11) via a pressure channel (6,9). The pump interacts with a control valve (7), and between the pressure channel and control valve a pre-control volume is formed and which is hydraulically connected to the pressure channel via a restrictor (23) so that a change in the closing position of the control valve is transmitted to the pressure channel in a damped state.

IPC 8 full level
F02M 57/02 (2006.01); **F02M 59/36** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 57/023 (2013.01); **F02M 59/366** (2013.01); **F02M 59/468** (2013.01); **F02M 63/0026** (2013.01); **F02M 63/0049** (2013.01); **F02M 2200/315** (2013.01)

Citation (search report)

- [X] WO 2004003374 A1 20040108 - BOSCH GMBH ROBERT [DE], et al
- [X] DE 10237593 A1 20040311 - BOSCH GMBH ROBERT [DE]
- [X] DE 3700355 A1 19880721 - BOSCH GMBH ROBERT [DE]
- [X] DE 10246208 A1 20040415 - BOSCH GMBH ROBERT [DE]
- [A] US 2004076530 A1 20040422 - SPOOLSTRA GREGG R [US], et al
- [A] US 2003111051 A1 20030619 - BOEHLAND PETER [DE]
- [DA] WO 03067074 A1 20030814 - SIEMENS AG [DE], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1598547 A2 20051123; EP 1598547 A3 20060315; DE 102004024926 A1 20051215

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