

Title (en)
Injector

Title (de)
Einspritzdüse

Title (fr)
Injecteur

Publication
EP 1203882 A3 20031217 (DE)

Application
EP 01123491 A 20010928

Priority
DE 10054526 A 20001103

Abstract (en)
[origin: EP1203882A2] The nozzle has a control chamber (28) to pressure-charge a nozzle needle (22). A bore is formed in the pressure-charged end of the nozzle needle away from the injection aperture, to connect the control chamber and/or a working chamber of the nozzle, to a leakage pipe (30), dependent upon the nozzle needle stroke. The connection between bore and leakage pipe contains an outlet throttle (24). The control chamber is additionally connected to the leakage pipe via a pressure relief throttle (25).

IPC 1-7
F02M 63/00; **F02M 61/08**; **F02M 61/20**

IPC 8 full level
F02M 61/10 (2006.01); **F02M 61/08** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 61/08 (2013.01 - EP US); **F02M 61/205** (2013.01 - EP US); **F02M 63/0007** (2013.01 - EP US)

Citation (search report)

- [AD] DE 19623211 A1 19971218 - BOSCH GMBH ROBERT [DE]
- [A] DE 19616812 A1 19961031 - NIPPON SOKEN [JP]
- [A] DE 3117665 A1 19821118 - AUDI AG [DE]
- [A] US 5769319 A 19980623 - YEN B M [US], et al
- [A] DE 2711902 A1 19780921 - BOSCH GMBH ROBERT

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1203882 A2 20020508; **EP 1203882 A3 20031217**; DE 10054526 A1 20020516; JP 2002147315 A 20020522; US 2002053606 A1 20020509; US 6553967 B2 20030429

DOCDB simple family (application)
EP 01123491 A 20010928; DE 10054526 A 20001103; JP 2001334860 A 20011031; US 98548501 A 20011105