

Title (en)
Injector for fuel injection unit

Title (de)
Injektor für Kraftstoffeinspritzeinheit

Title (fr)
Injecteur pour ensemble d'injection de combustible

Publication
EP 1609979 B1 20101103 (EN)

Application
EP 05012225 A 20050607

Priority
JP 2004182252 A 20040621

Abstract (en)
[origin: EP1609979A2] An injector body (B1) is provided with a longitudinal hole (31) eccentrically to the injector body (B1) to install an actuator (3) and a hydraulic power transmission unit (4). A high-pressure fuel passage (1) is disposed in a thick wall portion formed at a side of the longitudinal hole (31). A space in the longitudinal hole (31) functions as a low-pressure fuel chamber (22) and connected to an outer leakage passage. A groove (32) is formed on an inner side wall of the hole 31 to be connected to a low-pressure fuel passage (23) to provide a low-pressure fuel passage groove (26) to discharge leakage fuel from an injection nozzle portion (103) and a control valve portion (102). It is easy to machine the groove (32) integral with the longitudinal hole (31) and to secure strength of a periphery of the high-pressure fuel passage (1).

IPC 8 full level
F02M 47/02 (2006.01); **F02M 51/06** (2006.01); **F02M 57/02** (2006.01); **F02M 59/10** (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 47/025 (2013.01); **F02M 61/168** (2013.01); **F02M 63/0045** (2013.01); **F02M 2200/703** (2013.01)

Cited by
US10890177B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1609979 A2 20051228; **EP 1609979 A3 20080827**; **EP 1609979 B1 20101103**; CN 100390401 C 20080528; CN 1712695 A 20051228; DE 602005024481 D1 20101216; JP 2006002722 A 20060105; JP 4114641 B2 20080709

DOCDB simple family (application)
EP 05012225 A 20050607; CN 200510078678 A 20050621; DE 602005024481 T 20050607; JP 2004182252 A 20040621