

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
INJECTEUR DE COMBUSTIBLE

Publication
EP 1486665 A4 20100901 (EN)

Application
EP 03710360 A 20030314

Priority
• JP 0303077 W 20030314
• JP 2002071588 A 20020315
• JP 2002071589 A 20020315

Abstract (en)
[origin: EP1486665A1] In a fuel injector (1) whose injector body (2) is equipped with a magnetic valve (4) for fuel injection control that has a magnet unit (6) composed of multiple components assembled into a fixed sleeve (61), escape passages (67B) is formed inside the fixed sleeve (61) for allowing air trapped in gaps of the components in the fixed sleeve (61) by pressurized fuel sent to the magnet unit (6) to escape outside the fixed sleeve (61) and be replaced by fuel. The trapped air present in the gaps between the components in the magnet unit (6) of the magnetic valve (4) is rapidly replaced with fuel at the start of operation so that stable control of the quantity of injected fuel can be reliably established in a short time.
<IMAGE>

IPC 8 full level
F02M 61/16 (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01); **F02M 55/00** (2006.01)

CPC (source: EP KR)
F02M 47/027 (2013.01 - EP KR); **F02M 55/002** (2013.01 - EP KR); **F02M 55/007** (2013.01 - EP KR); **F02M 61/16** (2013.01 - EP KR); **F02M 63/0015** (2013.01 - EP KR); **F02M 63/0017** (2013.01 - EP KR); **F02M 63/0019** (2013.01 - EP KR); **F02M 2200/16** (2013.01 - EP KR); **F02M 2547/003** (2013.01 - EP KR)

Citation (search report)
• [X] EP 1150001 A2 20011031 - DENSO CORP [JP], et al
• [XI] DE 19832826 A1 20000127 - BOSCH GMBH ROBERT [DE]
• [XI] EP 0916843 A1 19990519 - ELASIS SISTEMA RICERCA FIAT [IT]
• See references of WO 03078829A1

Cited by
FR3065037A1; CN107120220A; WO2017067715A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1486665 A1 20041215; **EP 1486665 A4 20100901**; CN 1323238 C 20070627; CN 1507537 A 20040623; KR 100597760 B1 20060705; KR 20040012819 A 20040211; WO 03078829 A1 20030925

DOCDB simple family (application)
EP 03710360 A 20030314; CN 03800221 A 20030314; JP 0303077 W 20030314; KR 20037014690 A 20031112