

Title (en)

Improved injection device in diesel engines of the common-rail type

Title (de)

Verbesserte Einspritzvorrichtung für Dieselmotoren mit Common-Rail

Title (fr)

Dispositif d'injection amélioré pour moteurs diesel du type à rampe commune

Publication

**EP 0967388 A3 20030312 (EN)**

Application

**EP 99110390 A 19990528**

Priority

IT PN980046 A 19980622

Abstract (en)

[origin: EP0967388A2] Fuel injector for an internal combustion engine, comprising a valve body provided with an inner housing, a therein sliding plunger, in which there are arranged at least a first and a second chamber, three distinct conduits adapted to convey a flow of fuel from a high-pressure source to one of said chambers and a flow of fuel from one of said chambers to the needle valve, in which the outer walls of the plunger are slidably adhering to inner walls of said housing so as to prevent fuel from anyhow leaking or seeping between said two chambers through passages between the plunger and said walls. The outflow section connecting said first conduit with said third conduit within the second chamber is of the same order of magnitude as the outflow section of said needle valve and is further significantly smaller than the outflow section connecting said second conduit within the first chamber. <IMAGE>

IPC 1-7

**F02M 63/00**; **F02M 59/46**

IPC 8 full level

**F02M 63/00** (2006.01)

CPC (source: EP)

**F02M 63/0003** (2013.01); **F02M 63/0007** (2013.01)

Citation (search report)

- [A] US 5094215 A 19920310 - GUSTAFSON RICHARD J [US]
- [A] EP 0728969 A1 19960828 - LUCAS IND PLC [GB]
- [A] US 5651346 A 19970729 - REMMELS WERNER [DE], et al
- [A] GB 2295881 A 19960612 - LUCAS IND PLC [GB]

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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)

**EP 0967388 A2 19991229**; **EP 0967388 A3 20030312**; **EP 0967388 B1 20050119**; AT E287499 T1 20050215; DE 69923256 D1 20050224; DE 69923256 T2 20050623; IT 1305511 B1 20010509; IT PN980046 A1 19991222

DOCDB simple family (application)

**EP 99110390 A 19990528**; AT 99110390 T 19990528; DE 69923256 T 19990528; IT PN980046 A 19980622