

Title (en)
FUEL INJECTION SYSTEM

Title (de)
KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)
SYSTEME D'INJECTION DE CARBURANT

Publication
EP 1756416 A1 20070228 (DE)

Application
EP 05735840 A 20050415

Priority
• EP 2005051680 W 20050415
• DE 102004027507 A 20040604

Abstract (en)
[origin: WO2005119048A1] The invention relates to a fuel injection system with a high pressure reservoir (10), in which fuel can be stored under high pressure, whereby at least one injection valve (12) may be connected to the high pressure reservoir (10), by means of which the fuel in the high pressure reservoir (10) can be injected into the combustion chamber of an internal combustion engine. A high pressure pump (5) drains fuel from a leakage oil region (1), compresses the same and supplies the same to the high pressure reservoir (10), such that, on operation of the high pressure pump (5), a high fuel pressure can be generated. A return line (15, 22, 22') is provided between the oil leakage region (1) and the high pressure reservoir (10) with a control valve (20; 24; 24'), whereby, on the high pressure pump (5) being switched off, the control valve (20; 24; 24') permits a fuel flow from the oil leakage region (1) into the high pressure reservoir (10).

IPC 8 full level
F02M 55/02 (2006.01); **F02M 55/00** (2006.01); **F02M 63/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 55/002 (2013.01 - EP US); **F02M 55/007** (2013.01 - EP US); **F02M 55/025** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 63/025** (2013.01 - EP US); **F02M 2200/60** (2013.01 - EP US)

Citation (search report)
See references of WO 2005119048A1

Citation (examination)
EP 1167744 A1 20020102 - TOYOTA MOTOR CO LTD [JP]

Cited by
CN104895716A

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 2005119048 A1 20051215; CN 100467856 C 20090311; CN 1961145 A 20070509; DE 102004027507 A1 20051222; EP 1756416 A1 20070228; JP 2008501086 A 20080117; US 2008149069 A1 20080626; US 7574994 B2 20090818

DOCDB simple family (application)
EP 2005051680 W 20050415; CN 200580017884 A 20050415; DE 102004027507 A 20040604; EP 05735840 A 20050415; JP 2007513895 A 20050415; US 62863205 A 20050415