

Title (en)

Fuel system for an internal combustion engine

Title (de)

Kraftstoffsystem für eine Brennkraftmaschine

Title (fr)

Système de combustible pour un moteur à combustion interne

Publication

EP 1515038 B1 20100224 (DE)

Application

EP 04017811 A 20040728

Priority

DE 10341948 A 20030911

Abstract (en)

[origin: EP1515038A1] The internal combustion engine fuel supply uses a pump (24) in an inner chamber (22) in the fuel tank (18). The pump draws fuel through an inlet filter (26) and passes it through a non-return valve (28) to the fuel feed line (30). A bleed from the fuel feed line passes to a valve (34) with a spring-loaded (58) piston (52) which can be pushed down to uncover a connection to the fuel return line (42). Leakage fuel from the injectors flows through the fuel return line to pumps (48a,b) in the main tank. These pump fuel into the inner chamber.

IPC 8 full level

F02M 37/10 (2006.01)

CPC (source: EP)

F02M 37/10 (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1515038 A1 20050316; EP 1515038 B1 20100224; DE 10341948 A1 20050421; DE 502004010799 D1 20100408

DOCDB simple family (application)

EP 04017811 A 20040728; DE 10341948 A 20030911; DE 502004010799 T 20040728