

Title (en)

Fuel injection system for internal combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung für eine Brennkraftmaschine

Title (fr)

Dispositif d'injection de carburant pour un moteur à combustion interne

Publication

EP 1357283 B1 20140702 (DE)

Application

EP 03004643 A 20030303

Priority

DE 10218022 A 20020423

Abstract (en)

[origin: EP1357283A2] The device has a high pressure pump (18) feeding fuel under high pressure to a storage device (32) connected to injectors (40), a delivery pump (10) feeding fuel to the high pressure pump from a tank (12). The high pressure pump working chamber (34) is connected to the pressure side of the delivery pump and contains a suction valve (36) opening to the working chamber and with a minimal opening pressure difference less than 0.9 bar.

IPC 8 full level

F02M 63/02 (2006.01); **F02M 55/00** (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP US)

F02M 59/464 (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US)

Citation (examination)

WO 0140657 A1 20010607 - BOSCH GMBH ROBERT [DE], et al

Cited by

EP2226491A1; US7273036B2; WO2004040128A1; WO2008092780A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1357283 A2 20031029; **EP 1357283 A3 20040922**; **EP 1357283 B1 20140702**; DE 10218022 A1 20031106; JP 2003314409 A 20031106; JP 4395319 B2 20100106; US 2003213471 A1 20031120; US 6959694 B2 20051101

DOCDB simple family (application)

EP 03004643 A 20030303; DE 10218022 A 20020423; JP 2003117260 A 20030422; US 42076503 A 20030423