

Title (en)

DEVICE FOR SUPPLYING AN INTERNAL COMBUSTION ENGINE WITH FUEL

Title (de)

VORRICHTUNG ZUR VERSORGUNG EINER VERBRENNUNGSKRAFTMASCHINE MIT TREIBSTOFF

Title (fr)

DISPOSITIF D'ALIMENTATION EN CARBURANT D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2321519 B1 20130626 (DE)

Application

EP 09780160 A 20090706

Priority

- EP 2009058469 W 20090706
- DE 102008041384 A 20080820

Abstract (en)

[origin: WO2010020464A1] The invention relates to a device for supplying an internal combustion engine with fuel, comprising a fuel reservoir (1) and a high-pressure pump (2), which are connected through a suction line (3), a metering valve (4) which effects a change of the passage cross-section of the suction line (3), a rail (5) for receiving high-pressure fuel, and a pressure control valve (6) for controlling the pressure in the rail (4). The metering valve (4) and the pressure control valve (6) are combined in a common housing (7) and have opposite opening directions. The metering valve (4) and the pressure control valve (6) have closing members (4.1, 6.1) which are rigidly connected to each other and are movable on a coincident movement axis (14).

IPC 8 full level

F02M 59/36 (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01); **F02M 69/52** (2006.01)

CPC (source: EP KR US)

F02M 59/34 (2013.01 - EP US); **F02M 59/36** (2013.01 - KR); **F02M 63/0015** (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 63/004** (2013.01 - EP US); **F02M 63/0042** (2013.01 - EP US); **F02M 63/0047** (2013.01 - EP KR US); **F02M 63/0049** (2013.01 - EP US); **F02M 63/0061** (2013.01 - EP KR US); **F02M 63/025** (2013.01 - EP US); **F02M 69/52** (2013.01 - EP KR US); **F02M 69/54** (2013.01 - KR)

Citation (examination)

DE 102007000077 A1 20070816 - DENSO CORP [JP]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

DE 102008041384 A1 20100225; CN 102124203 A 20110713; CN 102124203 B 20130918; EP 2321519 A1 20110518; EP 2321519 B1 20130626; JP 2012500359 A 20120105; JP 5599399 B2 20141001; KR 101574823 B1 20151204; KR 20110042081 A 20110422; RU 2011110113 A 20120927; RU 2501968 C2 20131220; US 2011192377 A1 20110811; US 8464692 B2 20130618; WO 2010020464 A1 20100225

DOCDB simple family (application)

DE 102008041384 A 20080820; CN 200980132172 A 20090706; EP 09780160 A 20090706; EP 2009058469 W 20090706; JP 2011523362 A 20090706; KR 20117003758 A 20090706; RU 2011110113 A 20090706; US 200913060192 A 20090706