

Title (en)
FUEL DELIVERY DEVICE FOR A FUEL INJECTION DEVICE OF AN INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFFFÖRDEREINRICHTUNG FÜR EINE KRAFTSTOFFEINSPRITZEINRICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)
DISPOSITIF D'ALIMENTATION EN CARBURANT POUR SYSTÈME D'INJECTION DE CARBURANT D'UN MOTEUR À COMBUSTION INTERNE

Publication
EP 2467591 B1 20131030 (DE)

Application
EP 10740608 A 20100802

Priority

- DE 102009028585 A 20090817
- DE 102010031628 A 20100721
- EP 2010061211 W 20100802

Abstract (en)
[origin: WO2011020693A1] The invention relates to a fuel delivery device comprising an electrically driven delivery pump (10) and at least one high-pressure pump (16) having at least one pump element (22). Fuel is delivered by the delivery pump (10) to the intake side of the high-pressure pump (16) and fuel is delivered into a high-pressure region (18) by the high-pressure pump (16). A sensor device (44) provides a signal for the pressure present in the high-pressure region (18) to an electrical control device (46), by means of which the electrical drive (14) of the delivery pump (10) is variably actuated. A bypass connection (40) to a low-pressure region (12; 17) leads from the connection (xx) between the delivery pump (10) and the intake side of the at least one high-pressure pump (16). At least one throttle location (42) is provided in the bypass connection (40) and the electrical drive (14) of the delivery pump (10) is variably actuated by the electrical control device (46) for adjusting a prescribed pressure in the high-pressure region (18).

IPC 8 full level
F02M 37/00 (2006.01); **F02D 41/38** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)
F02D 33/003 (2013.01); **F02D 41/3082** (2013.01); **F02D 41/3854** (2013.01); **F02M 37/0052** (2013.01); **F02M 37/18** (2013.01); **F02M 55/00** (2013.01); **F02M 59/365** (2013.01); **F02M 59/464** (2013.01); **F02M 63/0225** (2013.01); **F02D 2200/0602** (2013.01); **F02D 2250/31** (2013.01); **F02M 37/0035** (2013.01); **F02M 59/102** (2013.01); **F02M 63/0056** (2013.01); **F02M 2200/28** (2013.01)

Designated contracting state (EPC)
AL 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 102010031628 A1 20110224; CN 102472209 A 20120523; CN 102472209 B 20140625; EP 2467591 A1 20120627; EP 2467591 B1 20131030; WO 2011020693 A1 20110224

DOCDB simple family (application)
DE 102010031628 A 20100721; CN 201080036318 A 20100802; EP 10740608 A 20100802; EP 2010061211 W 20100802