Title (en)

METHOD FOR THE OPEN-LOOP CONTROL AND CLOSED-LOOP CONTROL OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR STEUERUNG UND REGELUNG EINER BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ DE COMMANDE ET DE RÉGULATION D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2491237 A1 20120829 (DE)

Application

EP 10768697 A 20101019

Priority

- DE 102009050468 A 20091023
- EP 2010006382 W 20101019

Abstract (en)

[origin: WO2011047833A1] The invention relates to a method for the open-loop control and the closed-loop control of an internal combustion engine (1), the rail pressure (pCR) being controlled in a closed loop mode in the normal operating state and an emergency operation mode being activated once a defective rail pressure sensor (9) is detected, in which emergency operation the rail pressure (pCR) is controlled in an open loop mode. The invention is characterized in that in the emergency operation mode, the rail pressure (pCR) is gradually increased until a passive pressure relief valve (11) is activated which redirects fuel from the rail (6) to the fuel tank (2) when it is open.

IPC 8 full level

F02D 41/22 (2006.01); **F02D 41/20** (2006.01); **F02D 41/38** (2006.01); **F02M 63/02** (2006.01)

CPC (source: CN EP US)

F02D 41/1401 (2013.01 - EP US); **F02D 41/222** (2013.01 - EP US); **F02D 41/3809** (2013.01 - CN); **F02D 41/3845** (2013.01 - EP US); **F02D 41/3863** (2013.01 - EP US); F02D 41/20 (2013.01 - EP); F02D 41/2422 (2013.01 - EP US); F02D 2041/2027 (2013.01 - EP US); F02D 2041/223 (2013.01 - EP US); F02D 2041/227 (2013.01 - EP US); F02D 2200/0604 (2013.01 - EP US); F02D 2250/31 (2013.01 - EP)

Citation (search report)

See references of WO 2011047833A1

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 RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102009050468 A1 20110428; **DE 102009050468 B4 20170316**; CN 102713220 A 20121003; CN 102713220 B 20181026; CN 107448315 A 20171208; CN 107448315 B 20210226; EP 2491237 A1 20120829; US 2012221226 A1 20120830; US 8886441 B2 20141111; WO 2011047833 A1 20110428

DOCDB simple family (application)

DE 102009050468 A 20091023; CN 201080047926 A 20101019; CN 201710718475 A 20101019; EP 10768697 A 20101019; EP 2010006382 W 20101019; US 201013503580 A 20101019