Title (en)
METHOD FOR OPERATING AN INTERNAL COMBUSTION ENGINE, FUEL SYSTEM, AND VOLUME FLOW CONTROL VALVE

Title (de)
VERFAHREN ZUM BETREIBEN EINES VERBRENNUNGSMOTORS, KRAFTSTOFFSYSTEM UND EIN VOLUMENSTROMREGELVENTIL

Title (fr)
PROCEDE POUR FAIRE FONCTIONNER UN MOTEUR A COMBUSTION, SYSTEME D'ALIMENTATION EN CARBURANT ET SOUPAPE DE REGULATION DE DEBIT VOLUMETRIQUE

Publication
EP 1629187 B1 20060927 (DE)

Application
EP 04728820 A 20040422

Priority
• EP 2004050586 W 20040422
• DE 10323874 A 20030526

Abstract (en)
[origin: WO2004104397A1] The invention relates to a method for operating an internal combustion engine comprising a fuel pressure accumulator (7), in order to provide fuel at a nominal pressure, pressure in the fuel pressure accumulator being generated by means of a high-pressure pump (6). According to said method, the high-pressure pump is supplied with a fuel flow via a volume flow control valve (3). In a first operating mode, the pressure in the fuel pressure accumulator (7) is set to the nominal pressure, by regulating the fuel flow of the fuel delivered to the high-pressure pump (6) by means of the volume flow regulating valve (3). In a second operating mode, the pressure in the fuel pressure accumulator is set to the nominal pressure, i.e. more specifically, the pressure in the fuel pressure accumulator is reduced to the nominal pressure.

IPC 8 full level
F02D 41/38 (2006.01); **F02D 41/12** (2006.01); **F02M 59/36** (2006.01); **F02M 63/02** (2006.01); F02D 41/08 (2006.01)

CPC (source: EP KR US)
F02D 41/12 (2013.01 - KR); **F02D 41/38** (2013.01 - KR); **F02D 41/3845** (2013.01 - EP US); **F02D 41/3863** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US); **F02M 63/02** (2013.01 - KR); **F02M 63/0225** (2013.01 - EP US); **F02M 63/025** (2013.01 - EP US); F02D 41/08 (2013.01 - EP US); F02D 41/123 (2013.01 - EP US); F02D 2041/389 (2013.01 - EP US); F02D 2200/0602 (2013.01 - EP US); F02D 2250/31 (2013.01 - EP US)

Cited by
DE102009037644A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2004104397 A1 20041202; DE 10323874 A1 20041230; DE 502004001622 D1 20061109; EP 1629187 A1 20060301; EP 1629187 B1 20060927; KR 101086170 B1 20111125; KR 20060015625 A 20060217; US 2006288984 A1 20061228; US 7302935 B2 20071204

DOCDB simple family (application)
EP 2004050586 W 20040422; DE 10323874 A 20030526; DE 502004001622 T 20040422; EP 04728820 A 20040422; KR 20057022590 A 20040422; US 55752605 A 20051121