

Title (en)
METHOD FOR DETERMINING THE FUEL CONTENT OF THE REGENERATION GAS IN AN INTERNAL COMBUSTION ENGINE COMPRISING DIRECT FUEL-INJECTION WITH SHIFT OPERATION

Title (de)
VERFAHREN ZUR BESTIMMUNG DES KRAFTSTOFFGEHALTES DES REGENERIERGASES BEI EINEM VERBRENNUNGSMOTOR MIT BENZINDIREKTEINSPRITZUNG IM SCHICHTBETRIEB

Title (fr)
PROCEDE DE DETERMINATION DE LA TENEUR EN CARBURANT DU GAZ DE REGENERATION DANS UN MOTEUR THERMIQUE COMPRENANT UNE INJECTION DIRECTE D'ESSENCE A FONCTIONNEMENT PAR PHASES

Publication
EP 1317610 B1 20060830 (DE)

Application
EP 01971683 A 20010903

Priority
• DE 0103321 W 20010903
• DE 10043699 A 20000904

Abstract (en)
[origin: WO0220961A1] The invention relates to a method for determining the fuel content of a regeneration gas during the regeneration of a fuel vapour accumulator in internal combustion engines with direct fuel-injection and a lean-burn operation (shift operation). According to said method, the stored fuel vapour is fed to the internal combustion engine as a regeneration gas by means of a controllable canister-purge valve and the signal of an exhaust gas probe in the exhaust gas of said engine is taken into consideration for determining the fuel content of the regeneration gas. When the canister-purge valve is closed, the signal of the exhaust gas probe is compared with a predetermined desired value and the signal of the exhaust gas probe is linked to a corrective value in such a way that the result of the link corresponds to the desired value. When the canister-purge valve is open, the signal of the exhaust gas probe is linked to the previously obtained corrective value in the same way. The resorption of the regeneration gas is determined from the result of the link.

IPC 8 full level
F02D 35/00 (2006.01); **F02M 25/08** (2006.01); **F02D 41/00** (2006.01); **F02D 41/02** (2006.01); **F02D 41/30** (2006.01); **F02D 43/00** (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP KR US)
F02D 41/0032 (2013.01 - EP US); **F02D 41/0045** (2013.01 - EP US); **F02D 41/3023** (2013.01 - EP US); **F02D 43/00** (2013.01 - KR); **F02D 41/0042** (2013.01 - EP US); **F02D 41/1454** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0220961 A1 20020314; AT E338203 T1 20060915; DE 10043699 A1 20020314; DE 50110890 D1 20061012; EP 1317610 A1 20030611; EP 1317610 B1 20060830; JP 2004508483 A 20040318; KR 100777935 B1 20071120; KR 20020068337 A 20020827; US 2003029427 A1 20030213; US 6805091 B2 20041019

DOCDB simple family (application)
DE 0103321 W 20010903; AT 01971683 T 20010903; DE 10043699 A 20000904; DE 50110890 T 20010903; EP 01971683 A 20010903; JP 2002525349 A 20010903; KR 20027005717 A 20020503; US 12943002 A 20020820