Title (en)

METHOD FOR CONTROLLING AN AIR LOOP IN A DIESEL ENGINE USING A VOLUMETRIC YIELD MODEL

Title (de)

VERFAHREN ZUR STEUERUNG DER LUFTZIRKULATION IN EINEM DIESELMOTOR MITHILFE EINES VOLUMETRISCHEN VERSTÄRKUNGSMODELLS

Title (fr)

PROCEDE DE CONTROLE D'UNE BOUCLE D'AIR D'UN MOTEUR DIESEL PAR UTILISATION D'UN MODELE DE RENDEMENT VOLUMETRIQUE

Publication

EP 2158392 A2 20100303 (FR)

Application

EP 08805955 A 20080609

Priority

- FR 2008051019 W 20080609
- FR 0755950 A 20070622

Abstract (en)

[origin: WO2009001015A2] As the lack of pertinence has been assessed for various models developed for satisfying a need for the efficient operation of diesel engines (5), the invention has shown that the most important problem originated from the mass storage (?M) of the gases mixed at the inlet of the engine. The idea developed in the invention was to measure this mass (M). The measure is preferably carried out in the inlet manifold (2). By doing so and particularly by measuring the temperature (T2) and the pressure (P29 at this point, it is possible to take into account the phenomena of mass build-up, of losses of dynamic load and static compression, and thus of the flow, that interfere with the expected efficiency of the engine.

IPC 8 full level

F02D 41/00 (2006.01)

CPC (source: EP)

F02D 41/0072 (2013.01); **F02M 26/47** (2016.02); **F02M 26/53** (2016.02); F02D 41/0052 (2013.01); F02D 41/18 (2013.01); F02D 2041/0017 (2013.01); F02D 2200/0402 (2013.01); F02D 2200/0411 (2013.01); F02D 2200/0414 (2013.01); Y02T 10/40 (2013.01)

Citation (search report)

See references of WO 2009001015A2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2917784 A1 20081226; **FR 2917784 B1 20090918**; EP 2158392 A2 20100303; WO 2009001015 A2 20081231; WO 2009001015 A3 20090409

DOCDB simple family (application)

FR 0755950 A 20070622; EP 08805955 A 20080609; FR 2008051019 W 20080609