

Title (en)

ESTIMATION OF EXHAUST GAS TEMPERATURE AT THE OUTPUT OF THE EGR CIRCUIT OF A COMBUSTION ENGINE

Title (de)

SCHÄTZUNG VON ABGASTEMPERATUR AM AUSGANG DES AGR-KREISES EINES VERBRENNUNGSMOTORS

Title (fr)

ESTIMATION D'UNE TEMPERATURE DE GAZ D'ECHAPPEMENT EN SORTIE D'UN CIRCUIT EGR D'UN MOTEUR A COMBUSTION

Publication

EP 2100019 A2 20090916 (FR)

Application

EP 07866527 A 20071031

Priority

- FR 2007052286 W 20071031
- FR 0610065 A 20061117

Abstract (en)

[origin: WO2008059153A2] The invention relates to a method for estimating the temperature T₃ of the exhaust gases of a combustion engine at the output of a EGR circuit fitted on the engine, based on a model that takes into account the thermal energy losses of the exhaust gases at the EGR cooler or EGR circuit, characterised in that the model also takes into account the thermal exchange between the exhaust gases and the walls of a duct conveying said exhaust gases to the EGR cooler. The invention further relates to a vehicle capable of implementing such estimation.

IPC 8 full level

F02D 41/00 (2006.01); **F01N 11/00** (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP US)

F01N 11/002 (2013.01 - EP US); **F02D 41/0065** (2013.01 - EP US); **F02M 26/05** (2016.02 - EP US); **F02M 26/22** (2016.02 - EP US); **F02M 26/33** (2016.02 - EP US); **F02M 26/47** (2016.02 - EP US); **F02D 2041/007** (2013.01 - EP US); **F02D 2041/1433** (2013.01 - EP US); **F02M 26/25** (2016.02 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)

See references of WO 2008059153A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2908825 A1 20080523; **FR 2908825 B1 20090130**; EP 2100019 A2 20090916; JP 2010510426 A 20100402; JP 5079815 B2 20121121; US 2010043525 A1 20100225; US 8037737 B2 20111018; WO 2008059153 A2 20080522; WO 2008059153 A3 20080710

DOCDB simple family (application)

FR 0610065 A 20061117; EP 07866527 A 20071031; FR 2007052286 W 20071031; JP 2009536768 A 20071031; US 51482107 A 20071031