

Title (en)
SYSTEM AND METHOD FOR ESTIMATING THE FLOW OF NITROGEN OXIDES IN THE EXHAUST GASES OF AN INTERNAL COMBUSTION ENGINE FOR A MOTOR VEHICLE

Title (de)
SYSTEM UND VERFAHREN ZUR SCHÄTZUNG DES FLUSSES VON STICKOXIDEN IM ABGAS EINER BRENNKRAFTMASCHINE FÜR EIN KRAFTFAHRZEUG

Title (fr)
SYSTÈME ET PROCÉDÉ D'ESTIMATION DU DÉBIT D'OXYDES D'AZOTES DANS LES GAZ D'ÉCHAPPEMENT D'UN MOTEUR À COMBUSTION INTERNE POUR VÉHICULE AUTOMOBILE

Publication
EP 3060784 A1 20160831 (FR)

Application
EP 14786852 A 20141016

Priority
• FR 1360364 A 20131024
• EP 2014072265 W 20141016

Abstract (en)
[origin: WO2015059034A1] The invention relates to a system for estimating the flow of nitrogen oxides in the exhaust gases of an internal combustion engine for a motor vehicle provided with at least one circuit for partially recirculating the exhaust gases and with at least one system for reprocessing the exhaust gases, the flow of nitrogen oxides being estimated upstream of the systems for reprocessing the exhaust gases, including a system for determining the mass fraction of the fresh gases, a subtractor being suitable for determining the fraction of combusted gases in the intake collector from the mass fraction of the fresh gases, and an estimator (1) of the flow of nitrogen oxides depending on the speed of rotation of the internal combustion engine and on the fraction of combusted gases in the intake collector.

IPC 8 full level
F02D 41/14 (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP)
F02D 41/0047 (2013.01); **F02D 41/1462** (2013.01); **F02D 2041/1433** (2013.01); **F02D 2200/0402** (2013.01); **Y02T 10/40** (2013.01)

Citation (search report)
See references of WO 2015059034A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015059034 A1 20150430; CN 105683547 A 20160615; EP 3060784 A1 20160831; FR 3012526 A1 20150501; FR 3012526 B1 20151030

DOCDB simple family (application)
EP 2014072265 W 20141016; CN 201480058733 A 20141016; EP 14786852 A 20141016; FR 1360364 A 20131024