

Title (en)

EFFECT OF THE NOX CONTROL ON THE COMBUSTION NOISE CONTROL IN AN INTERNAL COMBUSTION ENGINE

Title (de)

EINFLUSS DER NOX REGELUNG AUF DIE MOTORGERÄUSCHREGELUNG IN EINER BRENNKRAFTMASCHINE

Title (fr)

INFLUENCE DE LA RÉGULATION DES NOX SUR LE CONTRÔLE DU BRUIT MOTEUR DANS UN MOTEUR À COMBUSTION INTERNE

Publication

**EP 2256322 B1 20200429 (FR)**

Application

**EP 10305490 A 20100510**

Priority

FR 0953079 A 20090511

Abstract (en)

[origin: EP2256322A1] The system has an air flap actuator (6) i.e. exhaust gas recirculation (EGR) valve, controlling a rate of nitrogen oxide emitted by an internal combustion engine (2). Another actuator (7) i.e. fuel injector, controls combustion noise of the engine. A regulation unit (30) controls the former actuator to regulate the rate of nitrogen oxide emitted by the engine in a closed loop. Another regulation unit (31) controls the latter actuator for regulating the combustion noise of the engine in the closed loop. An independent claim is also included for a method for controlling combustion in an internal combustion engine of a motor vehicle.

IPC 8 full level

**F02D 35/02** (2006.01); **F02D 41/14** (2006.01); **F02D 41/00** (2006.01); **F02D 41/18** (2006.01); **F02D 41/40** (2006.01)

CPC (source: EP)

**F02D 35/023** (2013.01); **F02D 35/028** (2013.01); **F02D 41/1401** (2013.01); **F02D 41/1462** (2013.01); **F02D 41/1497** (2013.01); **F02D 41/0002** (2013.01); **F02D 41/0052** (2013.01); **F02D 41/144** (2013.01); **F02D 41/1454** (2013.01); **F02D 41/18** (2013.01); **F02D 41/401** (2013.01); **F02D 2041/1409** (2013.01); **F02D 2041/1418** (2013.01); **F02D 2041/1433** (2013.01); **F02D 2200/025** (2013.01); **F02D 2200/0614** (2013.01)

Cited by

WO2014175821A1; DE102012105625B4

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 SE SI SK SM TR

DOCDB simple family (publication)

**EP 2256322 A1 20101201**; **EP 2256322 B1 20200429**; FR 2945319 A1 20101112; FR 2945319 B1 20160318

DOCDB simple family (application)

**EP 10305490 A 20100510**; FR 0953079 A 20090511