

Title (en)
CONTROLLER FOR INTERNAL COMBUSTION ENGINE

Title (de)
REGLER FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)
CONTRÔLEUR POUR MOTEUR À COMBUSTION INTERNE

Publication
EP 3153687 B1 20190501 (EN)

Application
EP 16192257 A 20161004

Priority
JP 2015200004 A 20151008

Abstract (en)
[origin: EP3153687A1] A controller (1) for an internal combustion engine (10) equipped with a processor (14B, 14C) that traps a predetermined substance contained in exhaust gas and processes the substance. The controller (1) includes: an estimator (2), a regeneration controller (3), a setter (5), and an idling stop controller (4). The estimator (2) estimates a trap amount (A, E) of the substance trapped by the processor (14B, 14C). The regeneration controller (3) carries out, when a predetermined regeneration condition is satisfied, regeneration control that removes the substance from the processor (14B, 14C). The setter (5) sets, when a predetermined idling stop condition is satisfied while the regeneration control is being carried out, a stopping time (ts) of the internal combustion engine (10). The idling stop controller (4) stops the internal combustion engine (10) for the stopping time (ts) from the time point at which the predetermined idling stop condition is satisfied.

IPC 8 full level
F02D 41/02 (2006.01); **F02D 41/04** (2006.01); **F02D 41/06** (2006.01); **F02N 11/08** (2006.01)

CPC (source: EP)
F02D 41/027 (2013.01); **F02D 41/0275** (2013.01); **F02D 41/0285** (2013.01); **F02D 41/029** (2013.01); **F02D 41/0295** (2013.01); **F02D 41/042** (2013.01); **F02D 41/065** (2013.01); **F02N 11/0818** (2013.01); **F02N 11/0848** (2013.01); **F02D 2041/1433** (2013.01); **F02D 2200/0414** (2013.01); **F02D 2200/0802** (2013.01); **F02D 2200/0806** (2013.01); **F02D 2200/0812** (2013.01); **F02D 2200/0814** (2013.01); **F02D 2200/0818** (2013.01); **F02N 2300/2011** (2013.01)

Cited by
FR3120395A1

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

DOCDB simple family (publication)
EP 3153687 A1 20170412; **EP 3153687 B1 20190501**; JP 2017072093 A 20170413; JP 6657744 B2 20200304

DOCDB simple family (application)
EP 16192257 A 20161004; JP 2015200004 A 20151008