

Title (en)
CONTROL SYSTEM AND CONTROL METHOD FOR AN INTERNAL COMBUSTION ENGINE, AND AN INTERNAL COMBUSTION ENGINE

Title (de)
STEUERUNGSSYSTEM UND STEUERUNGSVERFAHREN FÜR EINEN VERBRENNUNGSMOTOR UND VERBRENNUNGSMOTOR

Title (fr)
SYSTÈME DE COMMANDE ET PROCÉDÉ DE COMMANDE DESTINÉS À UN MOTEUR À COMBUSTION INTERNE, ET MOTEUR À COMBUSTION INTERNE

Publication
EP 3090167 B1 20190206 (EN)

Application
EP 14821238 A 20141217

Priority
• FI 20145008 A 20140103
• FI 2014051021 W 20141217

Abstract (en)
[origin: WO2015101706A1] A control system for an internal combustion engine comprises a primary controller (301), which compares a feedback value to a setpoint value and produces a primary output. The feedback value is an indicator of a measured dynamic quantity in a process (101) in said internal combustion engine. A secondary controller (302) receives an input value and produces a secondary output according to a transfer function. The input value is an indicator of a measurable disturbance affecting the process (101). A combiner (303) receives said primary and secondary outputs and delivers their combination as a control signal to an actuator (104). The secondary controller (302) receives said primary output or a derivative thereof, and adapts said transfer function based at least partly on an aim of maintaining said primary output at a fixed value.

IPC 8 full level
F02D 41/14 (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP FI KR)
F02D 28/00 (2013.01 - FI); **F02D 41/1402** (2013.01 - EP KR); **F02D 41/3845** (2013.01 - EP KR); **F02D 43/04** (2013.01 - FI); **F02M 55/025** (2013.01 - FI); **F02D 2041/1409** (2013.01 - EP KR); **F02D 2041/141** (2013.01 - EP KR); **F02D 2041/1422** (2013.01 - EP KR); **F02D 2200/0602** (2013.01 - EP KR); **F02D 2250/31** (2013.01 - EP KR)

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)
WO 2015101706 A1 20150709; CN 105934575 A 20160907; CN 105934575 B 20181214; EP 3090167 A1 20161109; EP 3090167 B1 20190206; FI 125058 B 20150515; FI 20145008 A 20150515; KR 102067868 B1 20200117; KR 20160104070 A 20160902

DOCDB simple family (application)
FI 2014051021 W 20141217; CN 201480072006 A 20141217; EP 14821238 A 20141217; FI 20145008 A 20140103; KR 20167021041 A 20141217