

Title (en)

METHOD FOR DETERMINING AN ESTIMATED VALUE OF A MASS FLOW IN THE INTAKE PASSAGE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM ERMITTELN EINES SCHÄTZWERTES EINES MASSENSTROMS IN DEN ANSAUGTRAKT EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE POUR DETERMINER UNE VALEUR ESTIMEE D'UN DEBIT MASSIQUE DANS LE CONDUIT D'ADMISSION D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1362173 A1 20031119 (DE)

Application

EP 01984730 A 20011227

Priority

- DE 0104929 W 20011227
- DE 10102914 A 20010123

Abstract (en)

[origin: WO02059471A1] A measured value (MAP_MES) of the pressure in a suction pipe is the reference variable of a control loop. The regulated variable is an estimated value (MAP_EST) of the pressure in the suction pipe, said estimated value being determined according to the regulating variable of the control loop. Said regulating variable is calculated according to the difference between the estimated value (MAP_EST) and a measured value (MAP_MES) of the pressure in the suction pipe and according to the temporal change of the measured value (MAP_MES) of the pressure in the suction pipe. An estimated value (MAF_EST) of the mass flow in the intake passage (1) is calculated according to the regulating variable.

IPC 1-7

F02D 41/18; F02D 41/14; F02D 21/08

IPC 8 full level

F02D 21/08 (2006.01); **F02D 41/14** (2006.01); **F02D 41/18** (2006.01)

CPC (source: EP US)

F02D 41/1401 (2013.01 - EP US); **F02D 41/18** (2013.01 - EP US); **F02D 41/0072** (2013.01 - EP US); **F02D 2200/0402** (2013.01 - EP US); **F02D 2200/0406** (2013.01 - EP US); **F02D 2200/0408** (2013.01 - EP US)

Citation (search report)

See references of WO 02059471A1

Cited by

DE102005046504A1; DE102007023850B3; US7546760B2; US8412437B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02059471 A1 20020801; DE 10102914 C1 20020808; DE 50102950 D1 20040826; EP 1362173 A1 20031119; EP 1362173 B1 20040721; US 2005021215 A1 20050127; US 6985806 B2 20060110

DOCDB simple family (application)

DE 0104929 W 20011227; DE 10102914 A 20010123; DE 50102950 T 20011227; EP 01984730 A 20011227; US 62441603 A 20030722