

Title (en)

METHOD FOR CALCULATING THE MASS OF AIR ADMITTED INTO THE CYLINDER OF AN INTERNAL COMBUSTION ENGINE IN A MOTOR VEHICLE AND INJECTION CALCULATOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUR BERECHNUNG DER EINER BRENNKRAFTMASCHINE ZUGEFÜHRTEN LUFTMASSE UND RECHNER FÜR KRAFTSTOFFEINSPRITZUNG

Title (fr)

PROCEDE DE CALCUL DE LA MASSE D'AIR ADMISE DANS LE CYLINDRE D'UN MOTEUR A COMBUSTION INTERNE EQUIPANT UN VEHICULE AUTOMOBILE ET CALCULATEUR D'INJECTION METTANT EN OEUVRE LE PROCEDE

Publication

EP 1377734 A1 20040107 (FR)

Application

EP 02708417 A 20020226

Priority

- FR 0200702 W 20020226
- FR 0102699 A 20010228

Abstract (en)

[origin: FR2821388A1] The invention relates to a method for calculating the mass of air admitted into the cylinder of an internal combustion chamber in a motor vehicle and an injection calculator carrying out said method. According to the invention, a value for predicting the pressure at the collector is predicted for each cylinder of the internal combustion engine for the time of closure (t3) of the inlet valve(s) on the basis of the measurement of the parameters describing the operation of the engine. The prediction value (Pres pred) is derived from the execution of a collector solved by an original method which is the object of the invention.

IPC 1-7

F02D 41/18

IPC 8 full level

F02D 41/18 (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP)

F02D 41/18 (2013.01); **F02D 2200/0402** (2013.01); **F02D 2200/0408** (2013.01)

Citation (search report)

See references of WO 02068806A1

Cited by

CN101892914A

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)

FR 2821388 A1 20020830; **FR 2821388 B1 20030425**; DE 60205732 D1 20050929; DE 60205732 T2 20060601; EP 1377734 A1 20040107; EP 1377734 B1 20050824; ES 2243696 T3 20051201; JP 2004528504 A 20040916; WO 02068806 A1 20020906

DOCDB simple family (application)

FR 0102699 A 20010228; DE 60205732 T 20020226; EP 02708417 A 20020226; ES 02708417 T 20020226; FR 0200702 W 20020226; JP 2002567688 A 20020226