Title (en)

METHOD AND DEVICE FOR THE ROBUST ESTIMATION OF THE RATIO OF INJECTION CONTROL PARAMETERS TO RESULTANT INJECTED FUEL QUANTITY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ROBUSTEN ABSCHÄTZUNG FÜR DAS VERHÄLTNIS VON STEUEREINSPRITZPARAMETER ZU RESULTIERENDER EINGESPRITZTER KRAFTSTOFFMENGE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR L'ESTIMATION ROBUSTE DU RAPPORT D'UN PARAMÈTRE DE COMMANDE D'INJECTION À LA QUANTITÉ DE CARBURANT INJECTÉE RÉSULTANTE

Publication

EP 1989431 A1 20081112 (DE)

Application

EP 07704637 A 20070219

Priority

- EP 2007051556 W 20070219
- DE 102006007786 A 20060220

Abstract (en)

[origin: DE102006007786B3] The method involves determining an injection control grid with grid points that are specified by a grid parameter and a grid injection quantity, where the grid specifies an operating area of an injection system. Test points are determined based on isolated test injections of the system, where the test points are specified by a test parameter and a test injection quantity. The control parameters of the targeted fuel injection quantity is estimated by using limited linear regression between the grid points and the test points within a partial region of the operating area of the system. An independent claim is also included for a device for estimating the control parameters of an injection system of an internal combustion engine for a targeted injection quantity.

IPC 8 full level

F02D 41/24 (2006.01)

CPC (source: EP US)

F02D 41/2416 (2013.01 - EP US); **F02D 41/2467** (2013.01 - EP US); **F02D 41/2477** (2013.01 - EP US); F02D 41/2432 (2013.01 - EP US); F02D 41/2441 (2013.01 - EP US)

Citation (search report)

See references of WO 2007096328A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006007786 B3 20070621; CN 101384811 A 20090311; EP 1989431 A1 20081112; US 2009024307 A1 20090122; US 8296039 B2 20121023; WO 2007096328 A1 20070830

DOCDB simple family (application)

DE 102006007786 A 20060220; CN 200780006020 A 20070219; EP 07704637 A 20070219; EP 2007051556 W 20070219; US 27978407 A 20070219