

Title (en)

Method and device for engine control in a vehicle

Title (de)

Verfahren und Vorrichtung zur Motorsteuerung bei einem Kraftfahrzeug

Title (fr)

Procédé et dispositif de commande d'un moteur à combustion interne dans un véhicule

Publication

EP 1672206 B1 20091230 (DE)

Application

EP 05251628 A 20050317

Priority

DE 102004061462 A 20041217

Abstract (en)

[origin: EP1672206A2] The method involves calculating duration of an injection pulse for triggering a fuel injector in an internal combustion engine. The engine air/fuel ratio value as measured by a wide range air/fuel ratio (AFR) sensor is input to an air/fuel ratio observer (28). The difference between the measured ratio and the required air/fuel ratio is output as an error by the observer to an AFR controller (42), which controls the pulse duration. The required air/fuel ratio is calculated from on an air mass value which varies based on ambient situation e.g. temperature, and necessary fuel amount. An independent claim is also included for a device for controlling an internal combustion engine of a motor vehicle.

IPC 8 full level

F02D 41/14 (2006.01); **F02D 41/24** (2006.01)

CPC (source: EP US)

F02D 41/1401 (2013.01 - EP US); **F02D 41/2454** (2013.01 - EP US); **F02D 41/248** (2013.01 - EP US); **F02D 41/2467** (2013.01 - EP US); **F02D 2041/1416** (2013.01 - EP US); **F02D 2041/1433** (2013.01 - EP US); **F02D 2200/0602** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

EP 1672206 A2 20060621; **EP 1672206 A3 20070516**; **EP 1672206 B1 20091230**; AT E453794 T1 20100115; DE 102004061462 A1 20060706; DE 502005008782 D1 20100211; US 2006130820 A1 20060622; US 7322346 B2 20080129

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