

Title (en)

Fuel metering control system for internal combustion engine

Title (de)

Regelungssystem für die Brennstoffdosierung eines Innenverbrennungsmotors

Title (fr)

Système de commande du dosage de carburant pour un moteur à combustion interne

Publication

**EP 0719923 A2 19960703 (EN)**

Application

**EP 96300007 A 19960102**

Priority

JP 34003394 A 19941230

Abstract (en)

A fuel metering control system for an internal combustion engine having a plurality of cylinders. The system includes an air/fuel ratio sensor and engine operating condition detecting means for detecting engine operating conditions at least including engine speed and engine load. The basic quantity of fuel injection is determined by retrieving mapped data according to the engine speed and engine load. An adaptive controller is provided to calculate a first feedback correction coefficient such that the detected air/fuel ratio is brought to a desired air/fuel ratio. The desired air/fuel ratio is corrected by a second air/fuel ratio sensor installed downstream of a catalytic converter. A PID controller is added to calculate a second feedback correction coefficient to correct the quantity of basic fuel injection such that variance between the individual cylinder air/fuel ratios is decreased. The quantity of fuel injection is further corrected by fuel adhered on an intake manifold wall. <IMAGE>

IPC 1-7

**F02D 41/14**; **F02D 41/04**

IPC 8 full level

**F02D 41/14** (2006.01)

CPC (source: EP)

**F02D 41/1402** (2013.01); **F02D 41/1441** (2013.01); **F02D 41/1456** (2013.01); **F02D 2041/1409** (2013.01); **F02D 2041/1415** (2013.01); **F02D 2041/1416** (2013.01); **F02D 2041/1417** (2013.01); **F02D 2041/1418** (2013.01); **F02D 2041/142** (2013.01); **F02D 2041/1426** (2013.01); **F02D 2041/1431** (2013.01); **F02D 2041/1433** (2013.01)

Cited by

EP1045124A3; EP1450221A3; US2022268217A1; US11927141B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0719923 A2 19960703**; **EP 0719923 A3 19990203**

DOCDB simple family (application)

**EP 96300007 A 19960102**