

Title (en)

Method for determining operating parameters of an injection system

Title (de)

Verfahren zur Bestimmung von Parametern eines Einspritzsystems

Title (fr)

Procédé de détermination des paramètres de fonctionnement d'un dispositif d'injection

Publication

**EP 1705355 B1 20080220 (FR)**

Application

**EP 05290675 A 20050325**

Priority

EP 05290675 A 20050325

Abstract (en)

[origin: EP1705355A1] The method involves calculating an average speed of an injector in the order of injection cycles of an engine cycle. An injection control signal including a test pulse with an adjustable parameter is applied to the injector to be tested. An average speed of the injector to be tested is calculated. A difference between the average speeds is calculated. The above steps are repeated for another engine cycle by varying the parameter. A value of the parameter is determined for which the average speed difference exceeds a preset threshold and the value is stored. The average speeds of the injector and the injector to be tested are equal to the speed of an internal combustion engine realized on measurement periods recovering injection cycles associated to the injector and the injector to be tested respectively.

IPC 8 full level

**F02D 41/14** (2006.01); **F02D 41/40** (2006.01)

CPC (source: EP US)

**F02D 41/1497** (2013.01 - EP US); **F02D 41/2438** (2013.01 - EP US); **F02D 41/247** (2013.01 - EP US); **F02D 41/123** (2013.01 - EP US); **F02D 41/2441** (2013.01 - EP US); **F02D 41/403** (2013.01 - EP US)

Cited by

FR2917462A1; CN103967677A; CN114544180A; CN112943500A; FR3055665A1; US8374770B2; WO2009092474A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1705355 A1 20060927**; **EP 1705355 B1 20080220**; AT E386877 T1 20080315; DE 602005004892 D1 20080403; DE 602005004892 T2 20090305; JP 2006275046 A 20061012; JP 4774516 B2 20110914; US 2006224299 A1 20061005; US 7269500 B2 20070911

DOCDB simple family (application)

**EP 05290675 A 20050325**; AT 05290675 T 20050325; DE 602005004892 T 20050325; JP 2006053107 A 20060228; US 38937506 A 20060324