

Title (en)

Internal combustion engine with a plurality of cylinder pressure sensors per cylinder

Title (de)

Brennkraftmaschine mit mehreren Zylinderdrucksensoren pro Zylinder

Title (fr)

Moteur à combustion interne avec une pluralité des détecteurs de la pression dans le cylindre par cylindre

Publication

**EP 1726809 A1 20061129 (EN)**

Application

**EP 06114164 A 20060518**

Priority

JP 2005147042 A 20050519

Abstract (en)

A fuel injection system (5) for an engine (10) with a chamber (12) is disclosed. The fuel injection system (5) includes a plurality of pressure sensors (11) for detecting a plurality of pressure values within the chamber (12). The fuel injection system (5) also includes an ECU (20) that receives the plurality of pressure values detected by the plurality of pressure sensors (11). The ECU (20) generates a distribution of characteristic dispersion of a sensor simplex based on the plurality of pressure values detected by the plurality of pressure sensors (11). Also, the ECU (20) processes the distribution of characteristic dispersion to generate a distribution result that is within the distribution of characteristic dispersion. Moreover, the ECU (20) obtains a pressure result based on the distribution result.

IPC 8 full level

**F02D 41/14** (2006.01)

CPC (source: EP)

**F02D 41/3845** (2013.01); **F02D 2200/0602** (2013.01); **F02D 2400/08** (2013.01)

Citation (applicant)

JP 2003161225 A 20030606 - DENSO CORP

Citation (search report)

- [A] WO 03071167 A2 20030828 - DANA CORP [US], et al
- [A] US 2002170345 A1 20021121 - PFITZ MANFRED [DE]
- [DA] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 10 8 October 2003 (2003-10-08)

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CN105074183A; US8573185B2; US9863358B2; WO2014166690A1

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1726809 A1 20061129**; **EP 1726809 B1 20100526**; DE 602006014468 D1 20100708; JP 2006322402 A 20061130; JP 4148238 B2 20080910

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