

Title (en)

Detection and reduction of an injection volume difference in a combustion engine with multiple cylinders

Title (de)

Bestimmung und Verringerung eines Einspritzmengenunterschieds bei einem Verbrennungsmotor mit mehreren Zylindern

Title (fr)

Détermination et limitation d'un décalage d'une quantité d'injection dans un moteur à combustion interne doté de plusieurs cylindres

Publication

EP 2518297 A3 20140305 (DE)

Application

EP 12001303 A 20120228

Priority

DE 102011100109 A 20110430

Abstract (en)

[origin: EP2518297A2] The consecutive pressure values of pressure tube (14) are acquired before fuel injection into cylinder for all cylinders (2-5). The consecutive pressure values of pressure tubes after the injection of fuel into cylinder are acquired for each cylinder. The statistical analysis of acquired pressure values is performed. The pressure difference value of cylinder is determined based on acquired pressure values, when the pressure values satisfy preset statistical property. The fuel injection quantity difference of cylinders is determined as function of pressure difference value. An independent claim is included for device for determining injection quantity difference of cylinders in internal combustion engine.

IPC 8 full level

F02D 41/00 (2006.01); **F02D 41/24** (2006.01); **F02D 41/28** (2006.01)

CPC (source: EP)

F02D 41/0085 (2013.01); **F02D 41/2467** (2013.01); **F02D 2041/286** (2013.01); **F02D 2200/0602** (2013.01)

Citation (search report)

- [XAI] DE 102008033754 A1 20100121 - CONTINENTAL AUTOMOTIVE GMBH [DE]
- [XAI] DE 102008016662 A1 20091015 - CONTINENTAL AUTOMOTIVE GMBH [DE]
- [XAI] EP 1085193 A2 20010321 - ISUZU MOTORS LTD [JP]
- [XAI] US 2009164086 A1 20090625 - GEVECI MERT [US], et al
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Cited by

DE102019205687A1; DE102019205687B4; WO2022043194A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2518297 A2 20121031; **EP 2518297 A3 20140305**; **EP 2518297 B1 20160224**; DE 102011100109 A1 20121031

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