

Title (en)
FUEL CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFFSTEUERUNGSSYSTEM FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)
SYSTÈME DE COMMANDE DE CARBURANT POUR MOTEUR À COMBUSTION INTERNE

Publication
EP 2143921 A4 20130731 (EN)

Application
EP 08752044 A 20080424

Priority
• JP 2008057945 W 20080424
• JP 2007120612 A 20070501

Abstract (en)
[origin: EP2143921A1] Intended is to smoothen the dispersion of combustions between a plurality of cylinders satisfactorily. In an internal combustion engine having a plurality of cylinders, a fuel control system for smoothing the dispersion of the combustions between the cylinders detects an output signal (dÉact) indicating the running states of the internal combustion engine, sets a reference signal (Fcr#i) for each of the cylinders, takes a correlation between an output signal and the corresponding reference signal for each of the cylinders, and calculates the value of a correlation function (Cr#i). The fuel control system calculates a target value (Cr_trg) for the cylinders, and calculates a correction value (Kcom#i) for correcting a fuel injection rate (Kin#i) to the cylinders so that the value of the correlation function may converge to the target value for each cylinder. Here, one of the cylinders is set as a reference cylinder, and the reference signals set for the individual cylinders are generated on the basis of the signals obtained by extracting the portion corresponding to the reference cylinder, from the output signals.

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CPC (source: EP)
F02D 41/0085 (2013.01); **F02D 41/0097** (2013.01); **F02D 41/1498** (2013.01); **F02D 2200/1012** (2013.01)

Citation (search report)
• [Y] WO 2006059789 A1 20060608 - HONDA MOTOR CO LTD [JP], et al
• [Y] US 5709192 A 19980120 - ZIMMERMANN UWE [DE]
• [A] EP 1106805 A1 20010613 - HITACHI LTD [JP]
• [A] WO 02071308 A1 20020912 - UNIV OHIO STATE [US]
• See references of WO 2008136357A1

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US11391226B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
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