Title (en)

APPARATUS FOR CONTROLLING AN INTERNAL COMBUSTION ENGINE

Title (de)

EINRICHTUNG ZUR STEUERUNG EINER BRENNKRAFTMASCHINE

Title (fr)

APPAREIL POUR CONTRÔLER D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2705234 A1 20140312 (DE)

Application

EP 12710911 A 20120319

Priority

- DE 102011075151 A 20110503
- EP 2012054773 W 20120319

Abstract (en)

[origin: WO2012150084A1] The invention relates to a device for controlling an internal combustion engine in a motor vehicle, comprising a unit for detecting uneven running (420) and a unit for correcting injection quantities (450), a group of cylinders being associated with a lambda probe. Said device is characterised in that the uneven-running detection unit (420) identifies the uneven running (LU) of a cylinder, compares this to a predefinable threshold value (110) and, if the identified uneven running (LU) exceeds said predefinable threshold value (110), the injection-quantity correction unit (450) adjusts the injection quantity of said cylinder towards a richer mixture, and adjusts the injection quantities of the remaining cylinders of the group such that, in total, a predefinable group lambda value is obtained which is preferably a lambda value of 1, and a lambda deviation is able to be determined for each individual cylinder in an adaption unit (440).

IPC 8 full level

F02D 41/14 (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP US)

F02D 41/008 (2013.01 - EP US); **F02D 41/0085** (2013.01 - EP US); **F02D 41/1498** (2013.01 - EP US); **F02D 41/30** (2013.01 - US)

Citation (search report)

See references of WO 2012150084A1

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

DOCDB simple family (publication)

DE 102011075151 A1 20121108; EP 2705234 A1 20140312; US 2014299096 A1 20141009; WO 2012150084 A1 20121108

DOCDB simple family (application)

DE 102011075151 A 20110503; EP 12710911 A 20120319; EP 2012054773 W 20120319; US 201214114951 A 20120319