

Title (en)

METHOD FOR DETERMINING THE FUEL-TO-AIR RATIO OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR BESTIMMUNG DES KRAFTSTOFF-LUFT-VERHÄLTNISSES EINER VERBRENNUNGSKRAFTMASCHINE

Title (fr)

PROCÉDÉ DE DÉTERMINATION DU RAPPORT CARBURANT/AIR D'UN MOTEUR À COMBUSTION INTERNE

Publication

**EP 2304208 B1 20160323 (DE)**

Application

**EP 09765533 A 20090603**

Priority

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- DE 102008028769 A 20080617

Abstract (en)

[origin: WO2009152953A1] It is the object of the invention to create a possibility to provide an absolute value of the fuel-to-air ratio independently of the operational readiness of lambda probes. According to the invention, this object is achieved in that different amounts of fuel are metered to successive working strokes of an internal combustion engine such that the speed curve of the camshaft or crankshaft of the internal combustion engine is excited and the speed curve is impressed with a characteristic pattern, wherein an absolute value of the fuel-to-air ratio is determined from said pattern.

IPC 8 full level

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Citation (examination)

EP 2156039 A1 20100224 - CONTINENTAL AUTOMOTIVE GMBH [DE]

Citation (opposition)

- Opponent : PRÜFREX engineering e motion gmbh & co. kg
- WO 2008135312 A1 20081113 - CONTINENTAL AUTOMOTIVE GMBH [DE], et al
  - US 5690072 A 19971125 - MEYER GARTH M [US], et al
  - FR 2739142 A1 19970328 - SIEMENS AUTOMOTIVE SA [FR]
  - EP 0715686 B1 19990217 - ELECTROLUX AB [SE]
  - DE 4305206 C2 20030430 - ELECTROLUX AB [SE]
  - DE 102004013613 A1 20041007 - HONDA MOTOR CO LTD [JP]
  - US 5915359 A 19990629 - MEYER GARTH MICHAEL [US], et al

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