

Title (en)

METHOD AND APPARATUS FOR THE CONTINUOUS ESTIMATION OF AIR-FUEL RATIO IN AN ENGINE'S CYLINDER

Title (de)

VERFAHREN UND VORRICHTUNG FÜR DIE KONTINUIERLICHE SCHÄTZUNG DES LUFT-KRAFTSTOFF-VERHÄLTNIS IN EINEM MOTORZYLINDER

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT D'ESTIMER EN CONTINU LA RICHESSE CYLINDRE D'UN MOTEUR

Publication

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Application

EP 12794388 A 20121026

Priority

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- FR 2012052475 W 20121026

Abstract (en)

[origin: WO2013079839A1] The invention relates to a method enabling continuous estimation of the cylinder compression ratio of an internal combustion engine, said engine including a plurality of cylinders, at least one compression ratio measurement probe, a plurality of injectors connected to the cylinders, and a flow meter. The method according to the invention includes the following steps: calculating the simple compression ratio model (Phi_Calc) by means of the set fuel quantity (qlnj) to be injected into a cylinder and from the measurement of the flow rate of intake air (Qair); identifying and quantifying the possible variances and derivations of the compression ratio at stabilized and/or temporary operating points by means of at least one derivation identifier (3); and continuously correcting the calculated compression ratio (Phi_Calc) by using the previously determined derivation values.

IPC 8 full level

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