

Title (en)

METHOD AND DEVICE FOR PHASE RECOGNITION IN A 4-STROKE OTTO ENGINE WITH ION FLOW MEASUREMENT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PHASENERKENNUNG AN EINEM 4-TAKT OTTOMOTOR MIT IONENSTROMMESSUNG

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT D'IDENTIFIER LES PHASES, PAR LA MESURE DU COURANT IONIQUE, DANS UN MOTEUR A ESSENCE A 4 TEMPS

Publication

EP 1073843 B1 20020807 (DE)

Application

EP 99926255 A 19990416

Priority

- DE 9901147 W 19990416
- DE 19817447 A 19980420

Abstract (en)

[origin: DE19817447A1] The method involves performing ion current measurement via the ignition plug or some other means to detect part or all of the of the spark current, which is evaluated as the measurement signal. After ignition, the detected measurement signal is processed to yield a characteristic that is fed to an engine control unit or ECU to enable successful and unsuccessful ignitions to be distinguished. A control algorithm in the ECU can detect inadequate energy levels for ignition. The starter can be driven by the ECU and the compression stroke for the cylinder determined, using the characteristic after each ignition, so that injection can be carried out by the ECU with correct phase.

IPC 1-7

F02P 17/12; **F02D 41/06**; **F02D 41/26**

IPC 8 full level

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CPC (source: EP KR US)

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