

Title (en)

Device for determining the phase cycle of an internal combustion engine

Title (de)

Vorrichtung zur Bestimmung der Phase des Zyklus für eine Brennkraftmaschine

Title (fr)

Dispositif de détermination de la phase de fonctionnement d'un moteur à combustion interne

Publication

**EP 0889235 B1 20021218 (FR)**

Application

**EP 98401684 A 19980703**

Priority

FR 9708529 A 19970704

Abstract (en)

[origin: EP0889235A1] A secondary ignition coil (5) is connected at each end to the sparking plug (6,7) in one of a designated pair of cylinders (1,4), one being in compression, while the other (4) is exhausting. The parameter relied on is the arithmetic mean of the output voltages. As these are opposed, this value takes the sign of the greater. Remaining near zero as both voltages increase, with opposite polarity, it assumes a level near that of the plug under compression when the other becomes conducting. This step-change, processed (8) to produce a binary signal representing + or -, is used to distinguish between the paired cylinders and to control (Vc) the switching of the primary coil (2) through e.g. a power transistor (3).

IPC 1-7

**F02P 15/08**; **F02P 7/077**

IPC 8 full level

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