

Title (en)

Apparatus for controlling the fuel injection and the ignition of a combustion engine.

Title (de)

Einrichtung zur Regelung der Kraftstoffeinspritzung und der Zündung bei einer Brennkraftmaschine.

Title (fr)

Dispositif pour commander l'injection en carburant et l'allumage d'un moteur à combustion.

Publication

EP 0638717 A3 19961211 (DE)

Application

EP 94110647 A 19940708

Priority

DE 4327218 A 19930813

Abstract (en)

[origin: EP0638717A2] A device for controlling the fuel injection and the ignition in an internal combustion engine is described, in which the position of the crankshaft and camshaft is determined in the control module as soon as possible after switching on the internal combustion engine. For this purpose the output signals of a crankshaft and a camshaft sensor are evaluated, the crankshaft sensor detecting at least one reference mark and the camshaft sensor having a sensor disc, which has a marking, which extends over an angle of 180 DEG . The co-ordination between crankshaft and camshaft must be such that the change in the level of the camshaft sensor signal is situated as precisely as possible between two reference marks. It is then possible to produce four marks, which are used to transmit the first injection and ignition signals, it being possible to run additional plausibility checks. <IMAGE>

IPC 1-7

F02D 41/34; F02D 37/02

IPC 8 full level

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CPC (source: EP)

F02D 37/02 (2013.01); **F02D 41/009** (2013.01); **F02D 41/062** (2013.01); **F02P 7/0775** (2013.01)

Citation (search report)

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- [DXAY] EP 0371158 A1 19900606 - SIEMENS AG [DE]
- [XY] FR 2637652 A1 19900413 - BENDIX ELECTRONICS SA [FR]
- [Y] EP 0243946 A2 19871104 - MITSUBISHI ELECTRIC CORP [JP]
- [YA] PATENT ABSTRACTS OF JAPAN vol. 009, no. 198 (M - 404) 15 August 1985 (1985-08-15)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 210 (M - 328) 26 September 1984 (1984-09-26)

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