

Title (en)

Dwell time monitoring for an ignition end stage in an internal combustion engine.

Title (de)

Schliessdauer-Überwachung einer Zündungsendstufe an einer Brennkraftmaschine.

Title (fr)

Surveillance du temps de fermeture du stade final d'allumage dans un moteur à combustion interne.

Publication

**EP 0547260 A1 19930623 (DE)**

Application

**EP 91121610 A 19911217**

Priority

EP 91121610 A 19911217

Abstract (en)

[origin: JPH05248331A] PURPOSE: To reduce occupation of memory locations of a microprocessor so as to eliminate unnecessary long monitoring duration in any case by adjusting the monitoring duration as a function of the closing duration to be monitored. CONSTITUTION: A separate comparing register R2 is also loaded during calculating duration Ax. The register R2 is started at the end of the counting of a register R1, i.e., at the start of a closing duration SDx at a time C. The execution time of the register itself determined by an internal clock of a microprocessor is adjusted to correspond to, for example, a monitoring duration Udx which is 1.25 times of the closing duration SDx. In the event that a primary current circuit is still supposed to be closed at a time F at the end of the counting of the register R2, the current circuit is opened at that time to effect ignition.

Abstract (de)

Zündeinrichtung für Brennkraftmaschinen mit einer Überwachungseinrichtung für die Schließdauer des Zündspulen-Primärstromkreises. Die Überwachungsdauer ist abhängig von der Schließdauer, beispielsweise durch Multiplikation der Schließdauer mit einem konstanten Faktor, einstellbar. <IMAGE>

IPC 1-7

**F02P 3/055**

IPC 8 full level

**F02P 3/045** (2006.01); **F02P 3/05** (2006.01); **F02P 3/055** (2006.01)

CPC (source: EP US)

**F02P 3/0552** (2013.01 - EP US); **F02P 3/0554** (2013.01 - EP US)

Citation (search report)

- [XD] WO 9101447 A1 19910207 - BOSCH GMBH ROBERT [DE]
- [A] GB 2012353 A 19790725 - RENAULT
- [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 286 (M-727)5. August 1988 & JP-A-63 061 775 ( NIPPON DENSO CO LTD ) 17. März 1988

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 0547260 A1 19930623**; **EP 0547260 B1 19960327**; DE 59107635 D1 19960502; JP H05248331 A 19930924; US 5301650 A 19940412

DOCDB simple family (application)

**EP 91121610 A 19911217**; DE 59107635 T 19911217; JP 35468992 A 19921217; US 99214992 A 19921217