

Title (en)

PROCESS FOR CONTROLLING IGNITION IN AN INTERNAL COMBUSTION ENGINE.

Title (de)

VERFAHREN ZUR STEUERUNG DER ZÜNDUNG EINER BRENNKRAFTMASCHINE.

Title (fr)

PROCEDE DE COMMANDE DE L'ALLUMAGE D'UN MOTEUR A COMBUSTION INTERNE.

Publication

EP 0448566 B1 19940525

Application

EP 89912393 A 19891115

Priority

- DE 3841862 A 19881213
- DE 8900714 W 19891115

Abstract (en)

[origin: WO9007057A1] Process for controlling ignition in an internal combustion engine, in which the ignition of a spark plug is determined by an ignition coil associated with each spark plug, and by a first counter which, when a reference mark independent of the angle is reached, counts up or down from a predetermined value, by means of a timing signal dependent on the angle, in order to trigger the ignition of a spark plug of the internal combustion engine. The spark plug to be ignited is determined by a cylinder identification device. The process is characterized in that the moment at which charging of all ignition coils of the internal combustion engine begins is determined by means of a single additional counter whose tally varies in function of the angle-dependent timing signal and to which a starting value corresponding to the interval until the start of charging of the next coil is pre-assigned. Hence, while the first counter triggers the ignition process, the second counter determines the moment at which the charging process of an ignition coil begins.

IPC 1-7

F02P 7/03; **F02P 3/045**

IPC 8 full level

F02P 3/04 (2006.01); **F02P 3/045** (2006.01); **F02P 7/03** (2006.01)

CPC (source: EP US)

F02P 3/0456 (2013.01 - EP US); **F02P 7/035** (2013.01 - EP US)

Cited by

US5741526A

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 9007057 A1 19900628; BR 8907818 A 19911001; DE 3841862 A1 19900621; DE 58907720 D1 19940630; EP 0448566 A1 19911002; EP 0448566 B1 19940525; ES 2018987 A6 19910516; JP 2792976 B2 19980903; JP H04502194 A 19920416; US 5193516 A 19930316

DOCDB simple family (application)

DE 8900714 W 19891115; BR 8907818 A 19891115; DE 3841862 A 19881213; DE 58907720 T 19891115; EP 89912393 A 19891115; ES 8904213 A 19891213; JP 51148989 A 19891115; US 68792189 A 19891115