

Title (en)  
Ignition system for a combustion engine.

Title (de)  
Zündsystem für eine Verbrennungskraftmaschine.

Title (fr)  
Système d'allumage pour un moteur à combustion.

Publication  
**EP 0415240 A2 19910306 (DE)**

Application  
**EP 90116018 A 19900822**

Priority  
DE 3928726 A 19890830

Abstract (en)  
[origin: JPH03149351A] PURPOSE: To permit ignition in a short time and adjustment of combustion duration by connecting an energy return diode in parallel with the capacitor of a primary circuit, and controlling the primary circuit by use of a control and adjustment device sized to operate in current-controlled shutoff operation and in current-carrying operation. CONSTITUTION: A primary vibrating circuit has a control and adjustment circuit 2 having a trigger input end 4, a trigger output end 6, a power conductor 8, and the primary circuit winding P1 of an ignition coil. A vibrating circuit capacitor C1 is in series with the primary circuit winding P1 and an energy recycling diode D1 is in parallel therewith. A transistor TR1 is connected to the capacitor C1 and the diode D1 at its drain side and to earth at its source side via a current limiting resistance R1, and a connection 10 connects the transistor TR1 to the resistance R1 and the control and adjustment circuit 2 on the source side. On the secondary side, a secondary winding is located in series with the winding and a discharge capacity CW.

Abstract (de)  
Das Zündsystem besteht aus einer selbstschwingenden Zündendstufe, einer Miniaturzündspule, einer statischen und/oder dynamischen Erfassung des Zündwinkels und einem Netzteil. Die Zündendstufe bewirkt, daß der Zündstrom ein Wechselstrom ist und daß die Zündenergie den Zündkerzen stromkontrolliert zugeführt wird. Der Zündzeitpunkt wird durch die Erfassung des Zündwinkels bestimmt. Die elektrische Versorgung der gesamten Zündendstufe und zusätzlicher Verbraucher eines Kraftfahrzeuges erfolgt durch ein strom- und spannungsumformendes Netzteil. <IMAGE>

IPC 1-7  
**F02P 3/01; F02P 7/073; F02P 9/00; F02P 15/12**

IPC 8 full level  
**F02P 3/00** (2006.01); **F02P 3/01** (2006.01); **F02P 3/045** (2006.01); **F02P 7/073** (2006.01); **F02P 7/077** (2006.01); **F02P 9/00** (2006.01); **F02P 15/00** (2006.01); **F02P 15/08** (2006.01); **F02P 15/10** (2006.01); **F02P 15/12** (2006.01)

CPC (source: EP US)  
**F02P 3/00** (2013.01 - EP US); **F02P 3/01** (2013.01 - EP US); **F02P 7/073** (2013.01 - EP US); **F02P 7/0775** (2013.01 - EP US); **F02P 15/08** (2013.01 - EP US); **F02P 15/10** (2013.01 - EP US); **F02P 15/12** (2013.01 - EP US); **F02B 2275/14** (2013.01 - EP US)

Cited by  
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