

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 B1 19961211 (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.

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

IPC 8 full level
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CPC (source: EP US)
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Citation (examination)
EP 0034787 A1 19810902 - SIEMENS AG [DE]

Cited by
EP1111630A3; EP0634573A1; WO9407027A1; WO9502761A1

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EP 0415240 A2 19910306; **EP 0415240 A3 19930707**; **EP 0415240 B1 19961211**; DE 3928726 A1 19910307; DE 59010597 D1 19970123; ES 2094738 T3 19970201; JP 2739518 B2 19980415; JP H03149351 A 19910625; US 5113839 A 19920519

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