

Title (en)
CONTROLLABLE IGNITION CIRCUIT

Title (de)
STEUERBARE ZÜNDSCHALTUNG

Title (fr)
INTERRUPTEUR D'ALLUMAGE CONTROLABLE

Publication
EP 1238195 A2 20020911 (DE)

Application
EP 00984610 A 20001218

Priority

- AT 0000346 W 20001218
- AT 213499 A 19991217
- AT 2122000 A 20000211

Abstract (en)
[origin: WO0144655A2] The invention relates to an ignition circuit for an externally-ignited internal combustion engine, especially a high-compression internal combustion engine, comprising an ignition coil (3) which is secondarily connected to a spark plug (4) and whose primary winding (L1) is series-connected to an electronic switch (T1, T2), this series connection being connected to a direct voltage source (U) whose control electrode is connected to a pulse generator (1) which supplies at least one control pulse for a predetermined ignition period. The invention provides that the ignition coil (3) is configured as a separate-winding transformer whose primary winding (L1) is connected in the shunt arm of a bridge circuit with an arm consisting of a series connection of two electronic switches (T1, T2) of the same type. A diode (D1, D2) is connected to each of the electronic switches (T1, T2) in antiparallel, respectively, and the pulse generator (1) subjects said electronic switches (T1, T2) to several pulses that are phase-shifted about 180 DEG , respectively, during the predetermined ignition period. In this way, the invention achieves a considerable degree of ignition reliability.

IPC 1-7
F02P 3/05

IPC 8 full level
F02P 3/05 (2006.01)

CPC (source: EP)
F02P 3/051 (2013.01)

Citation (search report)
See references of WO 0144655A2

Designated contracting state (EPC)
AT DE FR IT

DOCDB simple family (publication)
WO 0144655 A2 20010621; WO 0144655 A3 20020321; AU 2126201 A 20010625; DE 50009885 D1 20050428; EP 1238195 A2 20020911; EP 1238195 B1 20050323

DOCDB simple family (application)
AT 0000346 W 20001218; AU 2126201 A 20001218; DE 50009885 T 20001218; EP 00984610 A 20001218