

Title (en)

IGNITION DEVICE, CONTROLLER AND IGNITION UNIT FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

ZÜNDVORRICHTUNG, STEUERGERÄT UND ZÜNDANLAGE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

ALLUMAGE, ORGANE DE COMMANDE ET SYSTEME D'ALLUMAGE POUR UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1392970 A1 20040303 (DE)**

Application

**EP 02737856 A 20020527**

Priority

- DE 0201949 W 20020527
- DE 10127363 A 20010606

Abstract (en)

[origin: DE10127363C1] The device has an output for activating an ignition element, an energy storage device and a control input enabling information re the state of charge of the storage device and/or the ignition process to be returned to a controller. The control input is connected to a controllable current source and sink for sending a current signal to the controller depending on the ignition voltage. A current measurement unit can be connected to the source or sink. The device (2) has an output for electrical activation of an ignition element (9) for an engine combustion chamber, an ignition energy storage device (3) and a control input (5) from a controller (2) via a bi-directional data connection enabling information re the state of charge of the storage device and/or the ignition process to be returned to the controller. The control input is connected to a controllable current source (20,21) and to a controllable current sink (13,14) for imposing a current signal on the controller depending on the ignition voltage. A current measurement unit (18,19) that monitors the ignition voltage can be connected to the source or sink. Independent claims are also included for the following: a controller for an ignition device and an ignition system for an internal combustion engine.

IPC 1-7

**F02P 3/05**

IPC 8 full level

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

CPC (source: EP KR US)

**F02P 3/0456** (2013.01 - EP US); **F02P 3/05** (2013.01 - KR); **F02P 3/053** (2013.01 - EP US)

Citation (search report)

See references of WO 02099272A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**DE 10127363 C1 20021010**; DE 50208788 D1 20070104; EP 1392970 A1 20040303; EP 1392970 B1 20061122; KR 100869186 B1 20081118; KR 20040008214 A 20040128; MX PA03011165 A 20040226; US 2004123854 A1 20040701; US 6799564 B2 20041005; WO 02099272 A1 20021212

DOCDB simple family (application)

**DE 10127363 A 20010606**; DE 0201949 W 20020527; DE 50208788 T 20020527; EP 02737856 A 20020527; KR 20037015979 A 20031205; MX PA03011165 A 20020527; US 72321703 A 20031126