

Title (en)

Ignition system with generator voltage distribution control

Title (de)

Zündsystem mit Generatorspannungsverteilungssteuerung

Title (fr)

Dispositif d'allumage avec commande de distribution de tension de générateur

Publication

**EP 0811763 A3 19991215 (EN)**

Application

**EP 97630031 A 19970603**

Priority

JP 16530396 A 19960605

Abstract (en)

[origin: EP0811763A2] In an ignition system for an internal combustion engine of a motorcycle comprising an electric generator; an ignition circuit connected to the electric generator for producing a spark voltage for a spark plug; a battery having an end connected to the electric generator via switching means, and another end connected to the ground; and an electrical load connected in parallel with the battery, the switching means includes a voltage detector for detecting an output voltage of the electric generator, and a switching element for disconnecting the battery and the electrical load from the electric generator when the output voltage detected by the voltage detector is below a prescribed value. Because the electrical load and the battery are disconnected from the generator when the output voltage of the generator is below a prescribed value, the output voltage can go up to the prescribed value or higher which is sufficient for the ignition circuit to properly operate so as to produce a spark voltage for a spark plug, with the result that the internal combustion engine can be easily started by operating a kickstarter of the motorcycle. <IMAGE>

IPC 1-7

**F02P 1/08**; **F02P 15/12**

IPC 8 full level

**F02P 3/08** (2006.01); **F02B 61/02** (2006.01); **F02P 1/08** (2006.01); **F02P 15/12** (2006.01)

CPC (source: EP KR)

**F02B 61/02** (2013.01 - EP); **F02P 1/08** (2013.01 - EP); **F02P 15/12** (2013.01 - EP); **H01T 13/00** (2013.01 - KR)

Citation (search report)

- [X] EP 0684381 A2 19951129 - DUCATI ENERGIA SPA [IT]
- [A] EP 0642892 A1 19950315 - ILLINOIS TOOL WORKS [US]
- [A] US 4687991 A 19870818 - KRUNCOS FRANCIS E
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 480 (M - 1321) 6 October 1992 (1992-10-06)
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 042 (M - 359) 22 February 1985 (1985-02-22)

Cited by

US7764052B2; GB2348057A; GB2348057B

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0811763 A2 19971210**; **EP 0811763 A3 19991215**; **EP 0811763 B1 20021030**; CN 1071843 C 20010926; CN 1176344 A 19980318; ES 2184051 T3 20030401; ID 17443 A 19971224; IN 192325 B 20040410; JP 3525010 B2 20040510; JP H09324732 A 19971216; KR 100268957 B1 20001016; KR 980006676 A 19980330; MY 119183 A 20050430; TW 328556 B 19980321

DOCDB simple family (application)

**EP 97630031 A 19970603**; CN 97112935 A 19970604; ES 97630031 T 19970603; ID 971917 A 19970605; IN 1033CA1997 A 19970603; JP 16530396 A 19960605; KR 19970021945 A 19970530; MY PI9702478 A 19970604; TW 86107678 A 19970604