

Title (en)

Sparking plugs for internal-combustion engines.

Title (de)

Zündkerze für Brennkraftmaschinen.

Title (fr)

Bougie d'allumage pour moteurs à combustion interne.

Publication

EP 0118789 A1 19840919 (DE)

Application

EP 84101508 A 19840214

Priority

DE 3308522 A 19830310

Abstract (en)

[origin: US4549114A] To increase the spark intensity delivered from a spark plug, an auxiliary spark gap (33) is serially connected with an auxiliary capacitor (37) and the main spark gap (42), the auxiliary capacitor being charged through a charging circuit including a resistor (45) connected in shunt to the auxiliary spark gap (33) and the auxiliary capacitor, and a further or second resistor (46) connected in shunt across the auxiliary capacitor and the ground or chassis electrode (15), and a shunt capacitor (51) is connected between the main spark plug terminal (27) and the ground or chassis or counter electrode (11, 15) so that, upon breakdown of the auxiliary spark gap, the main spark gap will have a voltage thereacross formed by the charge voltage of the main or shunt capacitor (51) and the additional voltage on the auxiliary capacitor (37) which had been charged through the resistors connected across the auxiliary capacitor and to the main spark plug terminal (27) and the ground terminal or electrode (15) respectively.

Abstract (de)

Es wird eine Zündkerze vorgeschlagen, die zum Zünden von Kraftstoffdampf-Luft-Gemischen in Brennkraftmaschinen dient. Diese Zündkerze ist mit einer Vorfunkensstrecke, zwei Kondensatoren und zwei hochohmigen Widerständen versehen und stellt der Funkenstrecke eine erhöhte Zündspannung zur Verfügung. Die hierfür erforderlichen zusätzlichen Bauelemente können alle oder zumindest teilweise in der Zündkerze integriert werden.

IPC 1-7

H01T 13/40; **H01T 13/46**

IPC 8 full level

F02P 3/08 (2006.01); **F02P 9/00** (2006.01); **F02P 13/00** (2006.01); **H01T 13/22** (2006.01); **H01T 13/40** (2006.01); **H01T 13/46** (2006.01)

CPC (source: EP US)

F02P 3/0823 (2013.01 - EP US); **F02P 9/002** (2013.01 - EP US); **F02P 13/00** (2013.01 - EP US); **H01T 13/40** (2013.01 - EP US); **H01T 13/465** (2013.01 - EP US)

Citation (search report)

- [A] US 1982950 A 19341204 - CURTIS JAMES D
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Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0118789 A1 19840919; **EP 0118789 B1 19870114**; DE 3308522 A1 19840913; DE 3462083 D1 19870219; JP S59169088 A 19840922; US 4549114 A 19851022

DOCDB simple family (application)

EP 84101508 A 19840214; DE 3308522 A 19830310; DE 3462083 T 19840214; JP 4060884 A 19840305; US 57500784 A 19840130