

Title (en)

SPARK PLUG FOR INTERNAL COMBUSTION ENGINE

Title (de)

ZÜNDKERZE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

BOUGIE D'ALLUMAGE POUR MOTEUR A COMBUSTION INTERNE

Publication

EP 0845167 B1 20030115 (DE)

Application

EP 97930294 A 19970522

Priority

- DE 9701025 W 19970522
- DE 19623989 A 19960615

Abstract (en)

[origin: DE19623989A1] A spark plug has a tubular metallic housing, an insulator retained by the housing and an inner conductor arrangement embedded in the insulator and consisting of a connection bolt, an erosion resistance, a contact pin and a platinum central electrode. Four earth electrodes are secured to the housing, are bent towards the central electrode and project with their thickness over the insulator. The contact pin is coated and shortened in such a way that the erosion resistance projects as much as possible into the electrode gap. The platinum central electrode is shaped as a nail whose rear part has a smaller diameter than the front part which projects out of the insulator.

IPC 1-7

H01T 13/39; H01T 13/40

IPC 8 full level

H01T 13/20 (2006.01); **H01T 13/39** (2006.01); **H01T 13/40** (2006.01)

CPC (source: EP US)

H01T 13/39 (2013.01 - EP US); **H01T 13/40** (2013.01 - EP US)

Citation (examination)

- EP 0101547 A2 19840229 - BOSCH GMBH ROBERT [DE]
- US 5132587 A 19920721 - LEMELSON JEROME H [US]
- EP 0554852 A2 19930811 - BERU WERK RUPRECHT GMBH CO A [DE]
- US 4439707 A 19840327 - HATTORI TADASHI [JP], et al
- EP 0073939 A1 19830316 - BOSCH GMBH ROBERT [DE]
- WO 9321674 A1 19931028 - HIPP AUGUSTUS J [US], et al
- DE 4422733 A1 19960104 - BOSCH GMBH ROBERT [DE]

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

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DE 59709144 D1 20030220; EP 0845167 A1 19980603; EP 0845167 B1 20030115; JP H11510958 A 19990921; US 5952770 A 19990914;
WO 9749153 A1 19971224

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