

Title (en)
Connecting element for ignition device.

Title (de)
Verbindungsteil einer Zündanlage.

Title (fr)
Élément de connexion pour dispositif d'allumage.

Publication
EP 0591686 A3 19950215 (DE)

Application
EP 93114204 A 19930904

Priority
DE 4234077 A 19921009

Abstract (en)
[origin: EP0591686A2] For an internal combustion engine in which a dedicated ignition unit (12) having an ignition coil (13) and a spark plug connector (14) is used for each cylinder, the capacitance of the spark plug connector (14) is to be designed such that the voltage drop between the ignition coil (13) and a high-voltage switching element (22) which is arranged in the spark plug connector (14) is as low as possible. For this purpose, the spark plug connector (14) is configured such that an additional capacitance, as well as the capacitances of the ignition device produced by components, is formed by a metal cup (32) which is connected to the output voltage of the ignition coil (13) and is coaxially opposite a metallic screen (34) which is at earth potential. This additional capacitance is arranged in the spark plug connector (14) such that it is connected between its connecting element (23) for the high-voltage connection of the ignition coil (13) and the electrical switch (22). This arrangement of the additional capacitance in the spark plug connector (14) reduces the voltage drop between the ignition coil (13) and the high-voltage switching element (22). This arrangement is used in car manufacture, especially in the case of internal combustion engines. <IMAGE>

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H01T 13/04

IPC 8 full level
H01T 13/04 (2006.01); **H01T 13/06** (2006.01)

CPC (source: EP US)
H01T 13/04 (2013.01 - EP US)

Citation (search report)

- [XA] DE 3730118 A1 19890316 - BERU WERK RUPRECHT GMBH CO A [DE]
- [A] GB 927725 A 19630606 - LUCAS INDUSTRIES LTD
- [A] GB 2184898 A 19870701 - BERU WERK RUPRECHT GMBH CO A
- [A] DE 3015611 A1 19801030 - NISSAN MOTOR
- [A] DE 1232399 B 19670112 - KURT WILLUTZKI DIPL ING

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