

Title (en)

A dual polarity type ignition system for a spark plug group

Title (de)

Zweifacher Polarität-Zündsystem für eine Zündkerzengruppe

Title (fr)

Système d'allumage du type à double polarité pour groupe de bougies d'allumage

Publication

**EP 0800247 B1 20010919 (EN)**

Application

**EP 97302332 A 19970404**

Priority

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- JP 8692797 A 19970404

Abstract (en)

[origin: EP0800247A1] In a dual polarity type ignition system for a spark plug group, a cylindrical metal shell is provided in which an insulator is provided. The insulator has an axial bore in which a center electrode is provided whose front end has a first noble metal tip. A ground electrode extends from a front end of the metal shell and having a second noble metal tip to form a spark discharge gap between the first noble metal tip and the second noble metal tip. The group of the spark plugs is divided into two groups, one is a positive polarity spark plug group in which a positive high voltage is applied to the center electrode, and the other group is a negative polarity spark plug group in which a negative high voltage is applied to the center electrode. The first noble metal tip of the center electrode of the positive polarity spark plug group is dimensionally smaller than the first noble metal tip of the center electrode of the negative polarity spark plug group. The second noble metal tip of the ground electrode of the negative polarity spark plug group is dimensionally smaller than the second noble metal tip of the ground electrode of the positive polarity spark plug group.  
<IMAGE>

IPC 1-7

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CPC (source: EP)

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