

[54] ELECTRICAL (H. V.) DISTRIBUTOR CAP CONTACTS FOR SPARK IGNITED COMBUSTION ENGINES

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FOREIGN PATENTS OR APPLICATIONS

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[57] ABSTRACT

[52] U.S. Cl. .... 339/100, 339/26

An improved electrical connection of the H. V. leads at the distributor cap of a spark ignited internal combustion engine, by slipping each semi-conducting H. V. lead over an extended end of a pin which has an enlarged portion for better holding the lead captive therearound; there also being an O-ring for improved electrical and mechanical interconnection, and there also being a rain shield molding so to seal out moisture and dust.

[51] Int. Cl. .... H01r 11/20

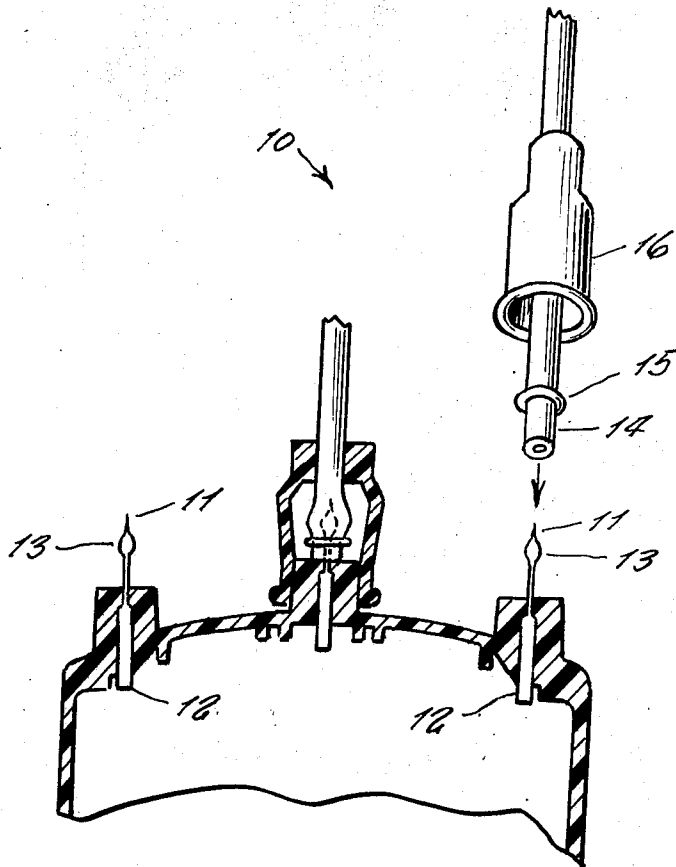
[58] Field of Search ..... 339/26, 59-61, 339/100

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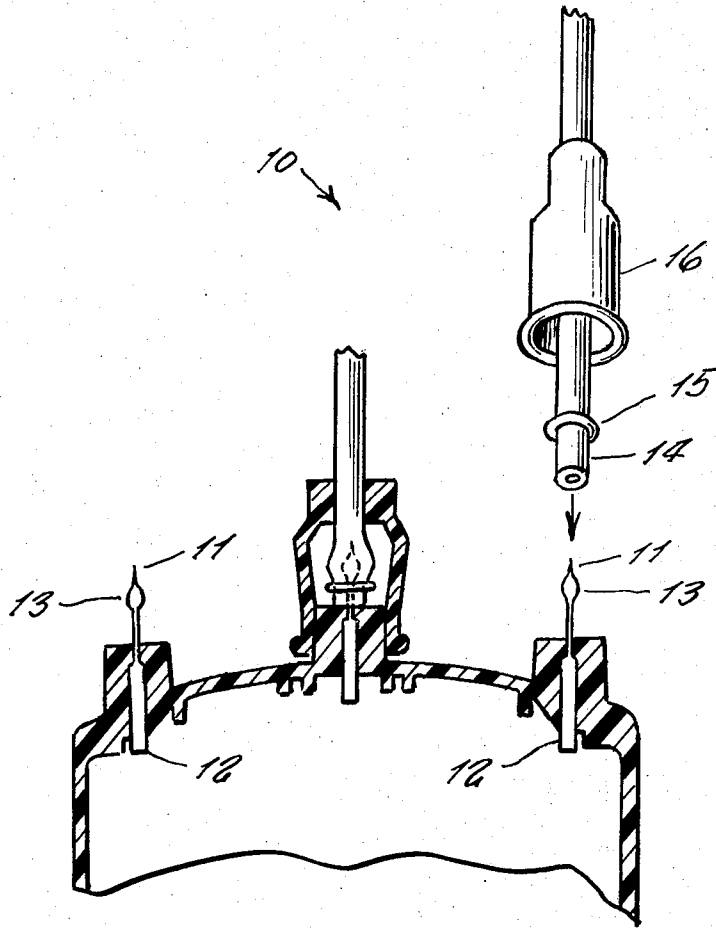
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1 Claim, 1 Drawing Figure



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**ELECTRICAL (H. V.) DISTRIBUTOR CAP CONTACTS FOR SPARK IGNITED COMBUSTION ENGINES**

This invention relates generally to distributor caps. More specifically it relates to H.V. leads at a distributor terminal. Still more specifically it relates to electrical connections.

A principal object of the present invention is to provide a greatly improved electrical connection of the H.V. leads at the distributor terminals of a spark ignited internal combustion engine.

Another object is to provide an improved electrical connection of the H.V. leads by simply slipping the semi-conducting H.V. lead over the extended pin end of the contacts of the distributor, and sliding the O-ring down the outside of the H.V. lead past the enlarged area of the extended pin.

Another object is to provide an improved electrical connection in which the O-ring imparts equal pressure between the semi-conducting H.V. lead and the extended pin of the contact.

Yet another object is to provide an improved electrical connection in which the same O-ring prevents the H.V. lead from slipping off of the extended pin of the contact.

Yet a further object is to provide an improved electrical connection which eliminates unnecessary electrical terminals and their attachment to the H.V. leads, reduces the cost in material, and labor, of the required electrical contacts of the distributor cap, and which provides a positive electrical circuit by eliminating unnecessary connections which are ever a source of possible trouble.

Other objects are to provide an improved electrical connection which is simple in design, inexpensive to manufacture, rugged in construction, easy to use, and efficient in operation.

These and other objects will be readily evident upon a study of the following specification and the accompanying drawing, wherein:

The sole FIGURE is a diagram of the present invention.

Referring now to the drawing in detail, the reference numeral 10 represents electrical (h.v.) distributor cap

contacts for spark ignited combustion engines according to the present invention, wherein there is an extended pin 11 of the electrical contact 12 and which includes an enlarged area 13 so to hold an H.V. lead 14 captive thereto.

The reference numeral 10 represents a distributor cap having a solid, flat surface from which the extended pin end of the electrical contact protrudes for direct attachment of the H.V. lead.

An O-ring 15 or other non-conducting device fitted around the lead 14 serves to apply pressure (equal on 360 degrees) to contact for good electrical connection, and additionally serves to keep the H.V. lead 14 held captive past the enlargement 13 on the extended pin.

A typical rain shield molding 16, or a special heat shrink tubing, is provided for the purpose to seal out moisture and dirt. In the case of using the heat shrink tubing the O-ring would not be required, because the tubing of an exact size could be utilized so to apply the pressure.

While various changes may be made in the detail construction, it is understood that such changes will be within the spirit and scope of the present invention as is defined by the appended claims.

I claim:

1. An improved electrical connection of H.V. leads at a distributor terminal of a spark ignited internal combustion engine, said electrical connection having means for better electrical and mechanical interconnection, said means including a distributor cap having solid flat surfaces from each of which there is an extending pin of an electrical contact, said pin including a diametrically enlarged portion along an intermediate portion thereof for being fitted inside said H.V. lead for a better hold, an O-ring being provided around said H.V. lead for applying pressure, said diametrically enlarged portion being inserted past said O-ring so that said enlarged portion is locked behind said O-ring, and a rain shield molding around said lead covering the connection so to form a moisture-proof and dirt-proof seal.

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