June 24, 1930. R. G. LAFITE 1,765,868

TERMINAL POST ATTACHMENT FOR SPARK PLUGS

Filed Nov. 28, 1927

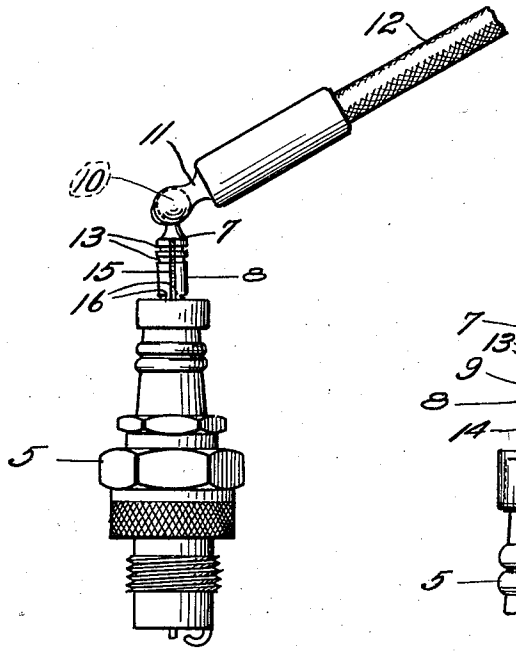


Fig. 1

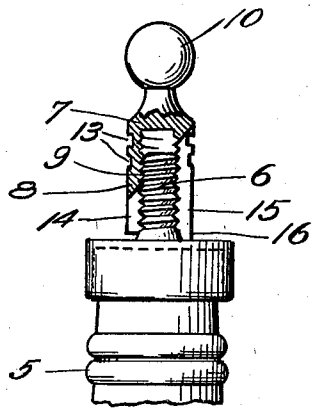


Fig. 2

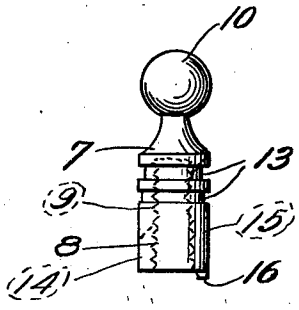


Fig. 3

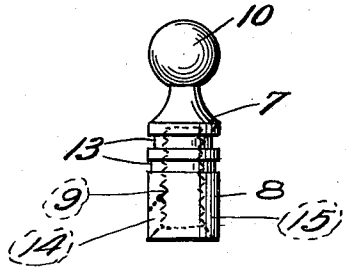


Fig. 4

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UNITED STATES PATENT OFFICE

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TERMINAL-POST ATTACHMENT FOR SPARK PLUGS

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This invention relates to a terminal post attachment to be used on spark plug posts and the like, and particularly to that type which is adapted for use with spark plugs having different sized terminal posts, and also with wires having terminals of different shapes and sizes.

One object of this present invention is to provide an attachment for terminal posts that may be used on spark plugs having terminal posts of different diameters, by slotting the side walls of the attachment to different depths to permit the sizing of the attaching portion of the same. The longitudinal slots of different lengths in the side walls permits a flexing of the body member to fit posts of different diameters and at the same time prevents undue spreading of the divided portions at their bottom end. Furthermore, that portion of the body member adjacent its open end which contains all the slots, is more easily flexed than that portion containing only a portion of the slots, so that with a small post the body member may be pinched together to cause a tight fit at the lower portion of the post, while when used with the large post the unequal lengths of the longitudinal slots permit the easy starting of the body member on the post and insures a good gripping of the outer end of the post because of the less number of slots between to permit flexing. In this construction it is evident that the portions of the body member spread further apart at the long slots thus causing a twisting effect on the body member which lends a greater resiliency thereto which could not be obtained if the longitudinal slots were of the same length.

Another object of this invention is the contemplation of a terminal post having a spherical head and a series of annular grooves of different depths to retain wire terminals of different shapes and sizes.

With these general objects in view, as well as minor objects which will appear in the course of the detailed specification, the invention will now be described with reference to the accompanying drawings illustrating a construction embodying the improvements of this invention.

In the drawing—Figure 1 is an elevation of an ordinary spark plug having a terminal post on which is mounted an attachment embodying this invention. Also a wire terminal is shown in operative relation with said attachment.

Fig. 2 is an enlarged fragmentary view of the upper end of the spark plug with the attachment partly broken away, and in position on the terminal post of said spark plug.

Fig. 3 is an enlarged elevation of a terminal post attachment embodying this invention, and

Fig. 4 is an enlarged elevation of a modified form of the same.

Similar reference characters designate like parts throughout the several views, and the numeral 5 designates a spark plug having the usual threaded terminal post 6, to which as shown in Figs. 1 and 2, is secured the novel attachment 7, as hereinafter described.

Terminal post attachment 7 consists of a cylindrical body member 8, having an internally threaded portion 9, and terminating at one end in a spherical member 10, which is adapted to be engaged by the spring clip terminal 11 of the wire 12. For the reception of different kinds and sizes of wire terminals, which are in general use, the body 8 is provided with a plurality of spaced apart annular grooves 13 of different depths. These annular rings are preferably positioned adjacent the closed end of the spherical member 10, in order to provide a more suitable position for the wire terminals, and also to permit a better flexing of the threaded portion of the body member 8.

Longitudinal slots 14 and 15 extending from the open end of the body member 8 to different distances therefrom are shown as being diametrically opposite and extending thru the cylinder wall, however a single slot, or more than two slots properly spaced may be used to meet certain conditions.

Integral with the body member 8 are lugs 16, which are at its open end, and extend longitudinally therefrom, as shown in Fig. 4. These lugs are preferably positioned adjacent the slot of greatest depth, and are for the purpose of spacing the open end of the

body 8 away from the spark plug core cap, which is generally provided with a fillet that would tend to spread the portions of the body 8 too far apart should the same be screwed tightly against the core cap. In Fig. 4, in which the lugs 16 are omitted, the threaded portion of the body 8 is counter bored to properly fit the fillet to avoid undue spreading of the body 8.

While I have shown the body 8 as circular in cross section, yet it may be of any suitable shape for receiving a wrench to force the attachment to its operative position on the spark plug post.

I do not limit this invention to the construction shown and described, as many modifications may be made within the scope of the appended claims without departing from the spirit of the invention.

What I claim as new and desire to be secured by Letters Patent is:

1. As a new article of manufacture, a terminal post attachment, comprising an internally threaded body having an open and a closed end, a plurality of spaced apart annular grooves of different depths in the outer wall of said body, and longitudinal slots of different lengths extending into the wall of said body from its open end.

2. As a new article of manufacture, a terminal post attachment to be used on spark plugs or the like, comprising an internally threaded cylindrical body terminating at one end in a sphere, a plurality of annular grooves of different depths in the outer wall of said body, and longitudinal slots of different lengths extending into the walls of said body from the open end thereof.

3. As a new article of manufacture, a terminal post attachment to be used on spark plugs or the like, comprising an internally threaded body having a sphere formed at one end thereof, a plurality of annular grooves of different depths in the outer wall of said body, longitudinal slots of different lengths extending into the wall of said body from the open end thereof, and a lug integral with said body and extending beyond the open end of the same.

4. As a new article of manufacture, a terminal post attachment to be used on spark plugs or the like, comprising an internally threaded cylindrical body having an open and a closed end, a sphere formed at the closed end of said body, a plurality of annular grooves of different depths in the outer wall of said body, longitudinal slots of different lengths extending from the open end of said body into the wall thereof, and lugs carried by said body extending beyond the open end of the same.

In testimony whereof, I hereunto affix my signature.

ROGER G. LAFITE.