J. W. FEERRER.

BINDING POST.

APPLICATION FILED JUNE 4, 1907. RENEWED JUNE 30, 1908.

912,237. Patented Feb. 9, 1909.

Fig. 1.

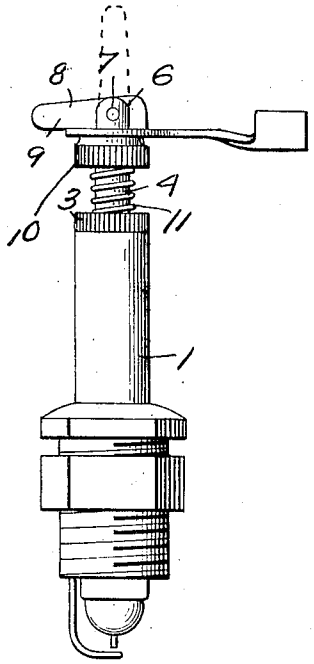


Fig. 2.

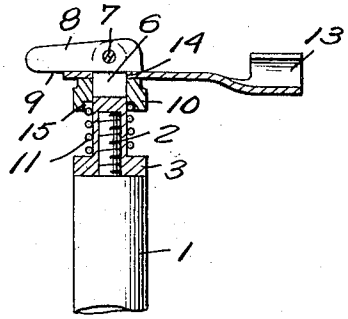
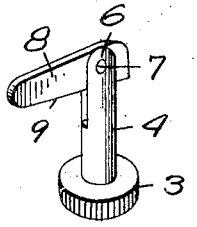


Fig. 3.



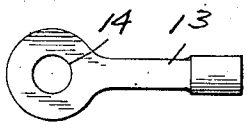


Fig. 4.

Witnesses

G. R. Thomas

John B. Powell

Inventor

James W. Feerrer

By Munn & Co

Attorneys

UNITED STATES PATENT OFFICE.

JAMES W. FERRER, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO JOSEPH H. SYMONDS, OF BOSTON, MASSACHUSETTS.

BINDING-POST.

No. 912,237. Specification of Letters Patent. Patented Feb. 9, 1909.

Application filed June 4, 1907, Serial No. 377,211. Renewed June 30, 1908. Serial No. 441,260.

To all whom it may concern:

Be it known that I, JAMES W. FERRER, a citizen of the United States, residing at Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Binding-Posts; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in binding posts and it has particular reference to a binding post including resiliently engaged members for holding the wire contact piece.

In connection with a device of the above type the invention has for its object to provide a binding post comprising as an entirety a spring pressed slidable nut surrounding the post proper and novel means coacting therewith for holding the wire contact piece.

The details of construction will appear in the course of the following description, in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views wherein:

Figure 1 is a side elevation of a binding post constructed in accordance with the present invention and showing it as arbitrarily applied to a spark plug. Fig. 2 is a central longitudinal section of such binding post the clamping lever and the spark plug being shown in side elevation. Fig. 3 is a detailed perspective view of the post and its associated parts. Fig. 4 is a plan view of the wire contact member surrounding the binding post and clamped thereupon.

The invention is arbitrarily shown as applied to a spark plug but this disclosure is to be regarded in the light of example rather than of enumeration, and it will be understood that the invention may be used in any connection in which the binding posts are employed.

Referring specifically to the accompanying drawings, the numeral 1 designates a spark plug proper which is secured in the cylinder head of an explosive engine and which is formed on its upper end with an axially projecting threaded post 2. The binding post embodied in the present invention comprises a set nut 3, the central opening of which communicates with the threaded bore of a tubular member 4, which is threaded upon the post 2. The member 4 is formed at its upper end with extended ears or bifurcations 6, which receive therethrough, a pin 7, constituting the pivot for a cam lever 8, having a straight edge 9. The member 4 has a smooth circumferential surface to permit of the free sliding movement of a binding collar 10 surrounding the same and forced upwardly by an expansive coil spring 11 which surrounds the member 4 between the collar 10 and the nut 3 and which bears thereagainst. The contact wire from the magneto or other source of electrical supply terminates in a contact piece 13 having a central opening 14 which surrounds the member 4 and is interposed between the lever 8 and the collar 10. It is obvious that the contact piece 13 may be of any other conventional form instead of the embodiment arbitrarily shown. For the purpose of centering the collar 10, the latter is formed on its underneath surface with a concentric recess 15 which affords a seat for the spring 11.

In use the contact piece 13 is frictionally held between the straight face 9 of the lever 8 and the upper surface of the collar 10. The adjustment of such contact piece is made by raising the lever 8 to the vertical dotted line position of Fig. 1 at which time the contact piece 13 may be assembled or disassembled with relation to the spark plug by moving the same upon the lever 8.

A binding post constructed in accordance with the present invention is exceedingly simple in construction, inexpensive to manufacture and practical and efficient in use.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention, but, while the elements herein shown and described, are well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts, without departing from the spirit and scope of the invention as defined in the appended claim.

What is claimed is:

In a device of the type set forth, the com-

bination with a threaded post of a set nut threaded upon said post and provided with a central tubular member surrounding said post, said tubular member having parallel ears at its upper end, a clamping lever pivoted between said ears and having a straight face, a collar loosely surrounding said tubular member, and an expansive coil spring surrounding said tubular member and bearing against said collar, and said set nut.

In testimony whereof, I affix my signature, in presence of two witnesses.

JAMES W. FEERRER.

Witnesses:

CHARLES S. ENSIGN, Jr.,

GEORGE M. POLAND.