No. 789,433. PATENTED MAY 9, 1905.

E. J. KING.

BINDING POST.

APPLICATION FILED OCT. 10, 1902.

Fig. 1.

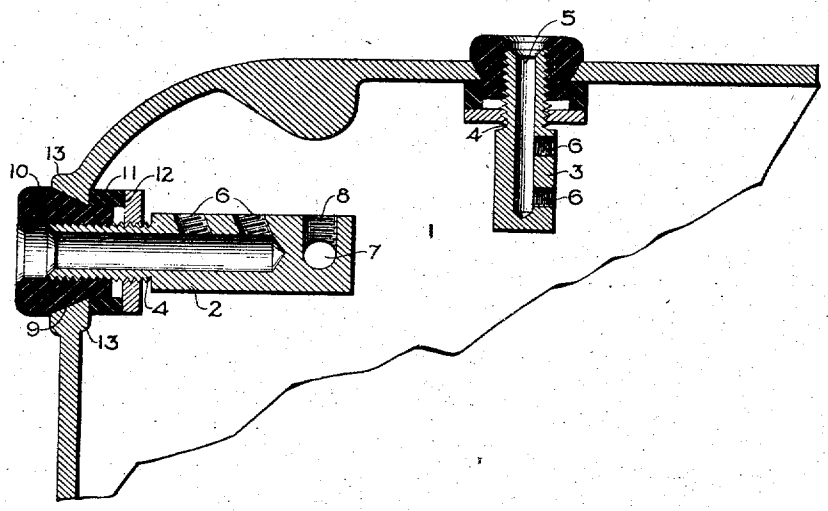
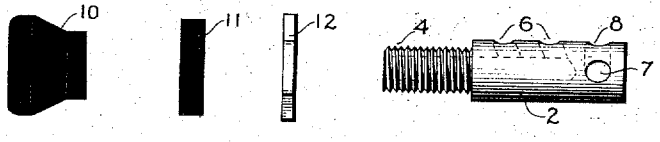


Fig. 2. Fig. 3. Fig. 4. Fig. 5.



WITNESSES:

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PHOTO-LITHOGRAPHED BY SACKETT & WILHELMS LITHO. & PTG. CO. NEW YORK.

No. 789,433. Patented May 9, 1905.

UNITED STATES PATENT OFFICE.

ELTON J. KING, OF FORT WAYNE, INDIANA, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

BINDING-POST.

SPECIFICATION forming part of Letters Patent No. 789,433, dated May 9, 1905.

Application filed October 10, 1902. Serial No. 126,715.

To all whom it may concern:

Be it known that I, ELTON J. KING, a citizen of the United States, residing at Fort Wayne, county of Allen, State of Indiana, have invented certain new and useful Improvements in Binding-Posts, of which the following is a specification.

The object of my invention is the production of a simple and efficient binding-post which is insulated from its support and is especially adapted for use in connection with electric meters.

My invention consists in certain features of construction, which will be more fully pointed out in the accompanying claims.

Figure 1 is a sectional view showing a portion of a meter-casing to which my improved binding-posts are attached. Figs. 2, 3, 4, and 5 are elevations showing parts of the binding-posts.

In the drawings a portion of the meter-casing 1 is shown, to which are shown secured two of my binding-posts 2 3. Each binding-post consists of a substantially cylindrical body having one end 4 reduced in diameter and threaded. An axial opening or recess 5 is formed in this end of the binding-post. Threaded transverse openings 6 are formed in the body portion of the binding-post leading into the recess 5, into which set-screws may be inserted in order to secure an external conductor in the binding-post. A transverse opening 7 is formed in the unthreaded end of the binding-post 2, which receives the conductor leading to the current-coils of the meter mechanism. At right angles to this opening 7 a threaded opening 8 is formed, into which a set-screw holding the meter-terminal in position is threaded. The post 3 is intended to be connected to the fine-wire coil of the meter. The fine-wire winding is sufficiently light and flexible to be secured to the combined post by clamping it under the head of a screw—as, for instance, one of those inserted in the opening 6—thus dispensing with the necessity for an opening corresponding to the opening 7 in the post 2.

The major portion of the binding-posts are located on the interior of the meter-casing. The threaded end may, however, project through a tapered opening 9 in the wall of the casing. A tapered tubular insulating-plug 10, into which the binding-post is secured, is fitted into this opening 9 and insulates the binding-post proper from the casing. The insulating-bushing 10 may be circular in cross-section or may be given any other desired configuration and is interiorly threaded to receive the threaded end of the binding-post. The taper of the opening and the bushing is such as to prevent more than a partial entrance of the bushing. A washer 11, also made out of insulating material, surrounds the inner end of the insulating-bushing 10. A nut 12, which may be made of metal, is threaded on the binding-post and abuts against the end of the washer 11, which extends into the casing farther than does the bushing 10. The meter-casing may be enlarged or thickened, as indicated at 13, in order that the walls of the opening may form a good bearing for the bushing 10. In Fig. 1 the binding-posts are shown turned ninety degrees in position from that in which they are placed when in service.

By the construction shown the binding-post is secured in a position in which there is almost no opportunity for dust to pass from the outside of the casing into the interior and in which the connections between the meter mechanism and the circuit cannot be readily altered.

While I have shown my device applied to a meter-casing, it is obvious that it can be employed in other relations.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In combination, a casing provided with an opening, an insulating-bushing fitted to the opening, the interior of said bushing being threaded, a metal binding-post in the interior of said casing threaded into said bushing, a washer of insulating material surrounding the inner end of said bushing, and a nut threaded on said binding-post for securing said washer and said bushing to said casing.

2. In combination, a casing provided with an

opening, said opening being flared outwardly, a tubular insulating-bushing tapered to fit said opening, a portion of the interior of said bushing being threaded, a binding-post in the interior of said casing threaded into said bushing, a washer of insulating material surrounding the inner end of said bushing, and a nut threaded on said binding-post for holding said washer in place and for locking said binding-post to said bushing.

3. In combination, a casing provided with an opening, an insulating-bushing fitted to said opening and provided with shoulders for engaging said casing, a metal binding-post threaded into said bushing, a nut threaded to said binding-post for locking said binding-post to said bushing, and a washer of insulating material placed on said bushing between said nut and the inner wall of said casing.

4. In combination, a casing provided with an opening, an insulating-bushing passing through said opening and formed with a shoulder engaging the outer surface of said casing, a binding-post located within the casing to which a conductor passing through the bore of said bushing may be secured, and means accessible only from the interior of said casing for securing the bushing and binding-post in fixed relation to said casing.

5. The combination, of a casing, a binding-post having a longitudinal bore, a bushing mounted in an opening in said casing and receiving said binding-post, and a clamping device located within the casing for securing to the binding-post a conductor passing into the bore of said post from without the casing.

6. In combination, a meter-casing having an aperture formed in it, an insulating-bushing passing through said opening and provided with a flange engaging the outer surface of the casing at the edge of said aperture, a binding-post inside the meter-casing, means located within the casing for securing the binding-post and bushing to each other and to the casing, a conductor passing through the bushing, and means located within the casing for securing the conductor to the binding-post.

In witness whereof I have hereunto set my hand this 6th day of October, 1902.

ELTON J. KING.

Witnesses:
R. F. HARDING,
E. F. DALMAN.

Disclaimer in Letters Patent No. 789,433.

DISCLAIMER.

789,433.—*Elton J. King*, Fort Wayne, Indiana. Patent dated May 9, 1905. BINDING POSTS. Disclaimer filed October 20, 1906, by General Electric Company, assignee.

Enters its disclaimer—

"To that part of the claim in said specification which is in the following words, to wit:

"5. The combination, of a casing, a binding-post having a longitudinal bore, a bushing mounted in an opening in said casing and receiving said binding-post, and a clamping device located within the casing for securing to the binding-post a conductor passing into the bore of said post from without the casing." [*Official Gazette, October 30, 1906.*]

opening, said opening being flared outwardly, a tubular insulating-bushing tapered to fit said opening, a portion of the interior of said bushing being threaded, a binding-post in the interior of said casing threaded into said bushing, a washer of insulating material surrounding the inner end of said bushing, and a nut threaded on said binding-post for holding said washer in place and for locking said binding-post to said bushing.

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