(No Model.)

# T. R. ABERNETHY.

## BINDING POST.

No. 297,655. Patented Apr. 29, 1884.

Fig. 2.

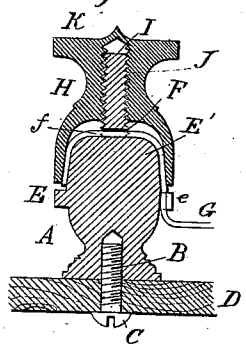



Fig. 1.

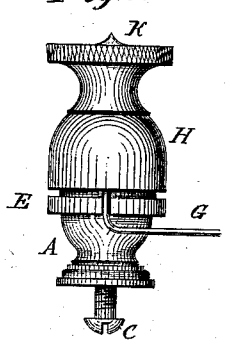



Fig. 3.

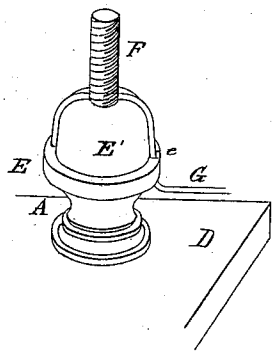
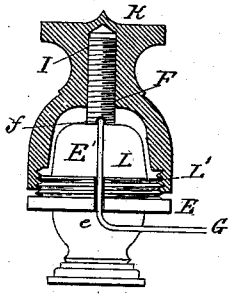



Fig. 4.




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# UNITED STATES PATENT OFFICE.

THOMAS R. ABERNETHY, OF CHICAGO, ILLINOIS.

## BINDING-POST.

SPECIFICATION forming part of Letters Patent No. 297,655, dated April 29, 1884.

Application filed November 21, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS R. ABERNETHY, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Binding-Posts, of which the following is a specification.

My invention relates especially to devices employed for securing electrical connection between wires and other conductors, and has for its object the production of a binding-post wherein the connection is sure, presenting a large surface to the conducting-wire, clean, and affording ample protection from dust, wet, &c.; wherein the wire will not be cut, work loose, or pull out; which does not leave the end of the wire projecting to make a cross or cut-out when employed upon a switch-board, and wherein effective means are employed for securing the post to the table, board, or other object to which it is desired to affix it.

To attain the desired results my invention consists, essentially, in a metallic base having a screw-threaded perforation therein adapted and arranged to engage with a screw for securing the post to any appropriate support. The upper portion of the base bears a screw-threaded projection, perforated where it joins the base for the passage of the conducting-wire. A cap the interior or lower portion whereof corresponds in shape to the upper portion of the base is arranged to fit thereon, being forced down upon the conducting-wire by a threaded cavity therein, which engages with the projection from the lower portion of the post. A milled button at the top of the cap facilitates manipulation; and my invention also involves certain other novel and useful combinations or arrangements of parts and peculiarities of construction and operation, all of which will be hereinafter first fully described, and then pointed out in the claims.

In the drawings, Figure 1 is a side elevation of my improved binding-post. Fig. 2 is a vertical axial sectional view thereof. Fig. 3 is a perspective view of the post with the cap removed. Fig. 4 is a vertical sectional view of a modified form of post, showing a screw at the bottom of the cap engaging with a thread around the base.

Like letters of reference, wherever they occur, indicate corresponding parts in all the figures.

A is the base of the post, provided with a screw-threaded perforation, B, adapted and arranged to engage with a screw, C, for securing the device to a board, table, or other support, D. I prefer this mode of attaching the post to its support, as it is often desirable to have the conducting-wire join the post upon a particular side, and the post as thus constructed can be secured in the requisite position; but of course a screw might be affixed to or form a part of the base of the post, as in those of ordinary construction.

E is a shoulder formed upon the base, slotted at *e* for the passage of the conducting-wire, the upper portion, E′, of the base being conical or sugar-loaf in shape, as plainly shown.

F is a screw-threaded projection extending from the base, said projection being perforated at *f* for the passage of the conducting-wire G.

H is a cap-piece, the lower surface or interior whereof corresponds in shape to the upper portion, E′, of the base A, a female screw, J, engaging with the projection F. The top K of the cap is milled or roughened to facilitate manipulation.

When constructed in accordance with the foregoing description, my improved binding-post will be found admirably adapted to the uses and purposes for which it is intended, as it may be made of any size for use with any gage of wire.

In placing the post in position for use, the base is first secured to the support and the wire passed through the perforation *f*. When the cap is placed in position and screwed home, it will bend the wire down upon each side of the upper portion of the base, wedging it tightly between the surface thereof and the wall of the cap, and as the space therebetween gradually decreases as the cap passes downward, various thicknesses of wire may be employed with one size of post, and as the wire extends entirely over the conical portion of the base in the smaller sizes of posts, there will be nearly an inch of contact, insuring a substantially perfect electrical connection. If,

now, the cap be removed, a good contact will still be maintained, as the wire will continue to hug the base of the post.

In the post shown in Fig. 4 a screw-thread, L, is formed above the collar E or upon the collar, a corresponding screw-thread, L′, near the rim of the cap engaging therewith, forming a tight joint between the parts; but the screw-thread may be left off of the projection A, the thread at the rim of the cup being sufficient to hold the parts.

Having now fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. A binding-post for forming electrical connection between a conducting-wire and other conductors, consisting of a conical or sugar-loaf-shaped base provided with means for securing to a support, and having a projection at its apex perforated for the passage of the conducting-wire, a cap the interior whereof conforms in shape to the base engaging therewith, substantially as and for the uses and purposes shown and described.

2. In a device of the character herein specified, a conical post provided with a screw-threaded perforation at bottom for engaging with a securing-screw, as set forth, and having a perforated projection at top adapted and arranged to receive a conducting-wire, substantially as shown and described.

3. A binding-post wherein the upper portion of the base is conical or sugar-loaf in shape, a screw-thread being formed at the base of the cone, and arranged to engage with a corresponding thread near the rim of a cap passing down thereover, substantially as shown and described.

4. The combination, with the base A, having a conical upper portion, E′, of a screw-threaded projection, F, perforated at *f*, substantially as and for the uses and purposes shown and described.

5. In a binding-post of the character herein specified, base A, screw-threaded perforation B, screw C, cone E′, projection F, perforated at *f*, and cup or cap-piece H, the whole combined and arranged to operate substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 13th day of October, 1883.

THOMAS R. ABERNETHY.

Witnesses:
P. J. BLACK,
MARY A. ABERNETHY.