

No. 789,574.

PATENTED MAY 9, 1905.

L. STEINBERGER.
BINDING POST.

APPLICATION FILED SEPT. 26, 1904.

Fig. 1.

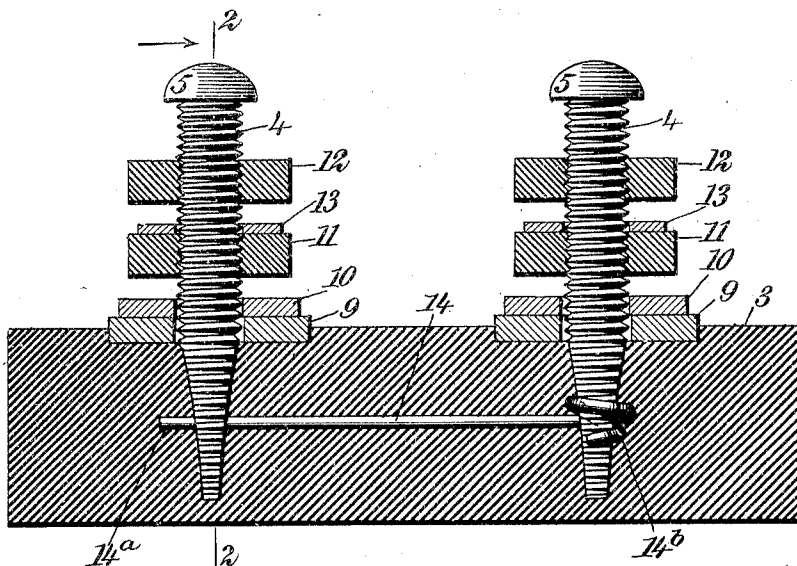
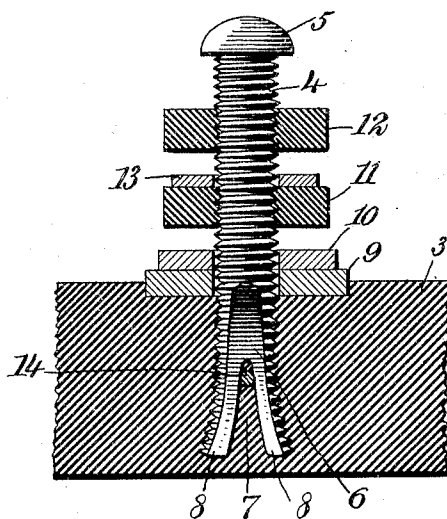


Fig. 2.



WITNESSES:

Geo. H. Maylor.
W. Harrison.

INVENTOR

Louis Steinberger

BY

Mumford

ATTORNEYS

UNITED STATES PATENT OFFICE.

LOUIS STEINBERGER, OF NEW YORK, N. Y.

BINDING-POST.

SPECIFICATION forming part of Letters Patent No. 789,574, dated May 9, 1905.

Application filed September 26, 1904. Serial No. 226,014.

To all whom it may concern:

Be it known that I, LOUIS STEINBERGER, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Binding-Post, of which the following is a full, clear, and exact description.

My invention relates to binding-posts and admits of general use, but is of peculiar value where it is desired that the post be embedded in a mass of material—such, for instance, as hard rubber, celluloid, electrose, or the like—so as to be permanently secured therein.

My invention further relates to the means for holding the binding-post in position and also to the shape thereof and to the electrical connections for the post, and is peculiarly applicable to electrical apparatus in which it is required to frequently disturb the wiring.

The object of my invention is to produce a strong, effective, reliable, and useful device adapted for service in a great variety of places and to provide a mode of attachment which while forming a perfect electrical contact between the conductors shall also mechanically clamp or bind them together in the most secure manner without diminishing their tensile strength and admit of either one of the wires being attached or removed without disturbing the remaining wire.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both figures.

Figure 1 is a sectional view showing a base provided with two binding-posts of my invention connected together, and Fig. 2 is a section upon the line 2 2 of Fig. 1 looking in the direction of the arrow.

The base is shown at 3 and is preferably of plastic material—such, for instance, as hard rubber, celluloid, electrose, or clay—in order that it may be molded or pressed up around the binding-post, so as to hold the same securely in position. A stem 4 is provided upon one of its ends with a head 5 and upon its other end with a flattened portion 6, provided with a slot 7, whereby it is divided into prongs 8, thus constituting a bifurcated member af-

fording a good anchorage. The stem 4 and the prongs 8 are threaded, as shown, the lower portion of the stem being flattened, as above stated. Loosely encircling the stem 4 is an annular disk 9, a comparatively large washer 10, which is free to engage the disk 9, and a pair of revoluble nuts 11 12, between which is a washer 13. Of course, as is customary with binding-posts, any number of nuts and washers may be added or but one nut and one washer used. A wire 14 is passed through the slot 7 and forced against the prongs 8, thereby springing the same slightly apart in order that they may bind upon the wire, and thus affording a good electrical connection. The projecting ends 14^a of the wire may be left in the position indicated in Fig. 1 or may be bent around the post, as indicated at 14^b, so as to increase the contact-surface between the post and the wire 14. When the end of the wire is bent around the post, as at 14^b, the anchorage of the post in the insulating material is also improved, as will be understood from Fig. 1. The annular disk 9 is useful in molding the base 3 upon the binding-post, for the reason that when the molds are prepared the annular disk 9 may be so arranged that the forked end of the binding-post projects into the mold, the other end of the binding-post extending outwardly therefrom. It will be noted that before the stem can be torn from the base 3 the prongs 8 must be forced together, and yet they are held slightly apart by the wire 14. The threads upon the prongs 8 must also tear their way through the base 3. The anchorage is therefore exceedingly firm and the screw is non-removable. The electrical connection between the wire and the stem is practically as good as if these parts were integral.

The annular disk 9 serves as a metallic pedestal or bearing-plate upon which a wire may be forced downward by the washer 10 and nut 11, or in case the wire is placed above the washer 10 the plate 9 serves to afford a metallic footing for the washer 10. More than one wire can be secured in position upon this binding-post, as will be seen from Fig. 1. It will of course be understood that the washers 9, 10, and 13 and the nuts 11 and 12 are as-

sembled on the stem 4 previous to the ends 8 being spread or otherwise given an anchoring formation. It will be noted that the nut 12 can be run upward, so as to clamp a wire between it and the head 5, which is of sufficient size and strength for the purpose.

I do not limit myself to the particular construction of binding-post above shown and described nor to the exact shape of either the upper or lower end thereof. Neither do I limit myself to the particular manner of connecting the wire 14 to the post nor in all instances to the use of a wire. While I preferably employ a base made of plastic material, I do not limit myself to this construction, as bases of other kinds may be employed without departing from the spirit of my invention.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

20 1. A binding-post comprising a body portion enlarged and flattened at one end and provided with a thread extending throughout the entire length of said body portion, said end being embedded within a base of plastic material, and means for connecting an electric
25 conductor to said body portion.

2. A binding-post comprising a metallic member provided at one of its ends with a head and with means for engaging an electric
30 conductor, the other of its ends being flattened upon both sides and provided with a thread,

and a base of plastic material enveloping said last-mentioned end and engaging the thread thereof so as to afford an anchorage.

3. A binding-post comprising a body member provided with means for engaging an electrical conductor and with prongs curved outwardly from each other, for anchoring said body member within a plastic material, and a wire engaging said slot.

4. A binding-post comprising a body member provided with an annular disk loosely encircling the same, and further provided with ends which are too large to pass through said annular disk, and a member movable relatively to said disk for securing a wire in electrical communication with said body member.

5. A binding-post comprising a body member provided with enlarged ends integral therewith, and also provided with an annular disk, said annular disk loosely encircling said body member and being disposed intermediate of said ends, said body portion being further provided with means independent of said disk for securing a wire.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LOUIS STEINBERGER.

Witnesses:

WALTON HARRISON,
EVERARD BOLTON MARSHALL.