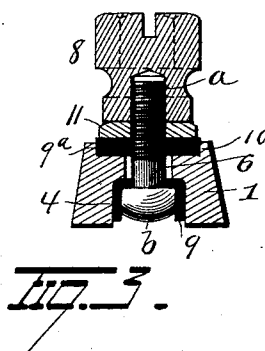
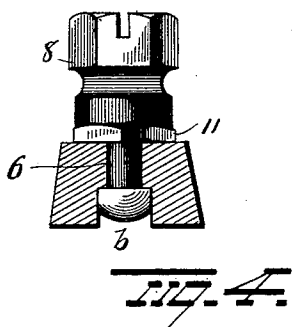
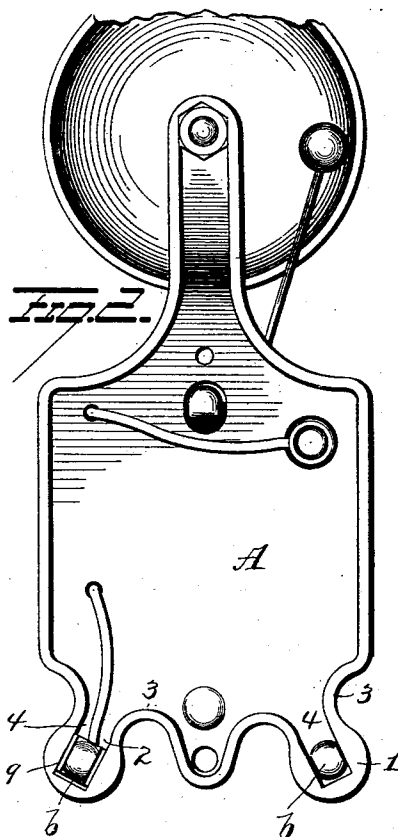
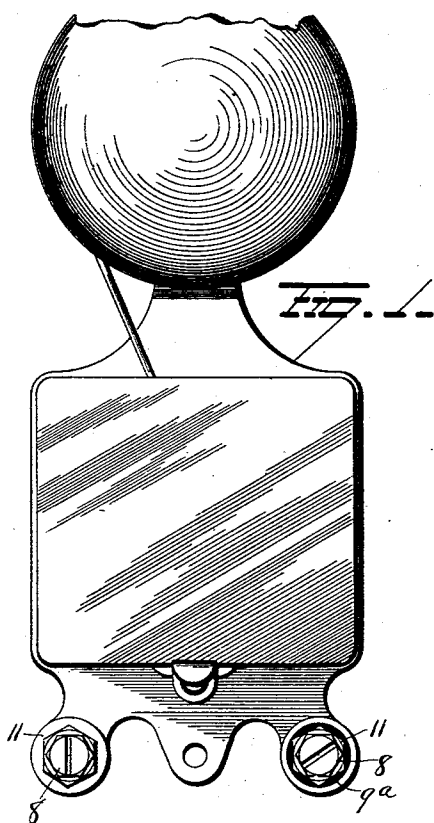


(No Model.)

F. W. MANGER & O. H. HUEBEL.
BINDING POST FOR ELECTRIC BELLS, &c.

No. 571,977.

Patented Nov. 24, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

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NEW YORK.

BINDING-POST FOR ELECTRIC BELLS, &c.

SPECIFICATION forming part of Letters Patent No. 571,977, dated November 24, 1896.

Application filed March 24, 1896. Serial No. 584,633. (No model.)

To all whom it may concern:

Be it known that we, FREDERICK WILLIAM MANGER and OTTO HENRY HUEBEL, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Binding-Posts for Electric Bells, &c.; and we 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.

Our invention relates to an improvement in binding-posts for electric bells or other devices, the object of the invention being to so construct the binding-post and attach it to the instrument in such manner that it will be effectually prevented from turning with the clamping-nut.

A further object is to produce a binding-post which shall be simple in construction, easy of application to an electric bell or other device, and which shall be effectual in all respects in the performance of its functions.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of an electric bell having our improvements applied thereto. Fig. 2 is a rear view of the base-plate. Figs. 3 and 4 are detail views.

A represents a base-plate which may be provided with ears 1 2 at its lower end for the reception of the binding-posts. The rear face of the base-plate is provided at its edges with a flange 3. The ears 1 are comparatively narrow, and the flange extending around their edges forms elongated recesses 4 on the backs of said ears, the walls of each recess 4 being parallel with each other. The ears 1 2 are made with holes communicating with the recesses 4 for the accommodation of the binding-posts 6 7, respectively.

Each binding-post comprises a screw-threaded stem *a*, having a head *b*, the diametrically opposite sides of which latter are flat and adapted to lie parallel with the par-

allel walls of the recesses 4, and a nut or clamp 8, adapted to screw on said stem.

Before passing the post 6 through the perforation in the ear 1 a small strip or washer 9, of insulating material, having a hole therein, is placed in the recess 4 of said ear 1. The binding-post 6 is then passed through the insulating-strip and the hole in the ear, said insulating-strip being thus disposed between the head *b* and the ear 1 and also between the flat side faces of said head and the walls of the recess 4. The hole in the ear 1 is sufficiently larger than the diameter of the binding-post 6 to permit the latter to pass through it without making contact with the ear. An insulating-washer 9^a is then placed on the binding-post 6 and made to enter a recess 10 in the outer face of said ear 1, thus further insuring the insulation of the binding-post from the ear of the base-plate. A metallic washer 11 will next be screwed on the binding-post 6 and made to bear on the insulating-washer 9^a and serves to prevent any endwise movement of the post. The metallic washer 11 also serves as one of the clamping-jaws for the wire, the other clamping-jaw being formed by the nut 8.

From the construction and arrangement of parts above described it will be observed that it will be impossible for the post 6 to turn independently of the nut 8; that the post will be effectually insulated from the base-plate, and that it will be prevented from any endwise movement. The same remarks apply to the post 7 and its connection with the base-plate, except as to the insulating devices, said post 7 being electrically connected with the base, the latter forming part of the electric circuit.

Our improvements are very simple in construction and are effectual in all respects in the performance of their functions.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with a base-plate having a hole therein and a recess in its rear face, said recess having straight walls, of a binding-post adapted to pass through said hole in

the base-plate and having a head to enter
said recess and conform thereto, a washer
adapted to screw on said post whereby to pre-
vent endwise movement thereof and a clamp-
5 ing-nut on said post, substantially as set forth.

2. The combination with a base-plate hav-
ing a hole therein and having a recess in its
rear face, said recess having parallel walls,
of a binding-post adapted to pass through the
10 hole in the base-plate and having a head to
conform to the shape of said recess, an insu-
lating-washer disposed between said head and
the walls of said recess, an insulating-washer
encircling the post and bearing against the

outer face of the base-plate, a metallic washer 15
adapted to screw on the post and bear against
said last-mentioned insulating-washer and a
clamping-nut on said post, substantially as
set forth.

In testimony whereof we have signed this 20
specification in the presence of two subscrib-
ing witnesses.

FREDERICK WILLIAM MANGER.
OTTO HENRY HUEBEL.

Witnesses:

I. H. PITT,
W. W. MCCHESENEY, Jr.