

A. B. SIMPSON.
 BINDING POST FOR ELECTRIC TERMINALS.
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1,090,887.

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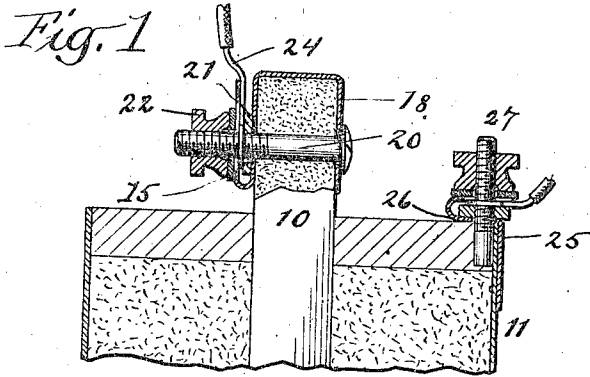
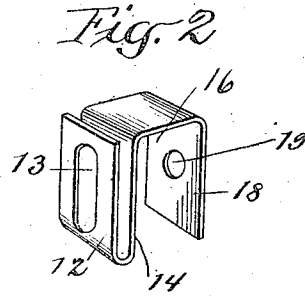
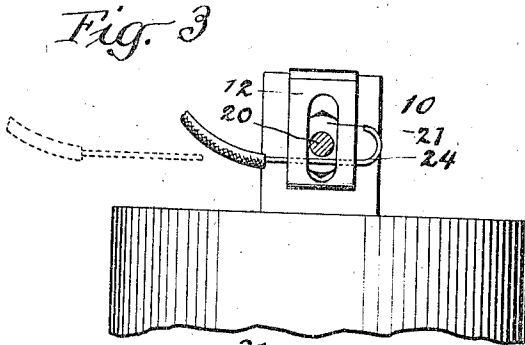
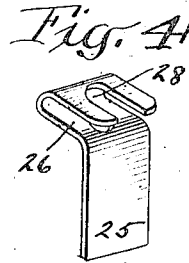
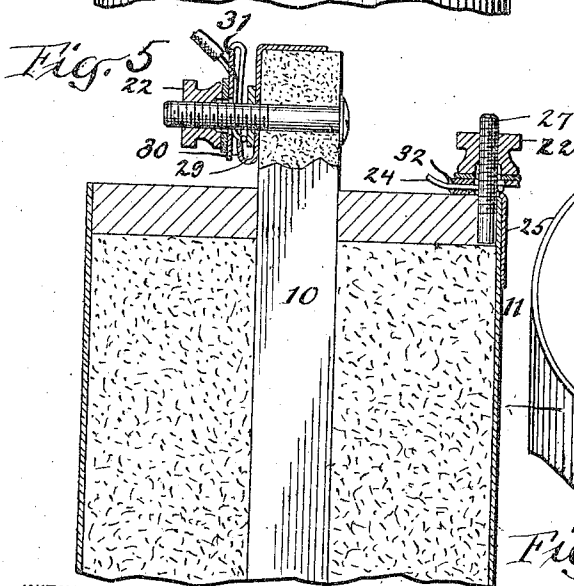


Fig. 6

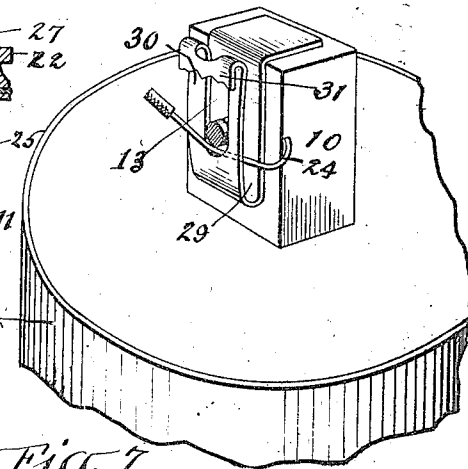
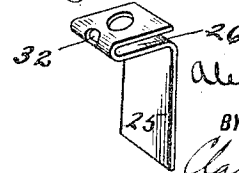


Fig. 7



WITNESSES

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BINDING-POST FOR ELECTRIC TERMINALS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALEXANDER B. SIMPSON, a citizen of the United States, residing in Jersey City, county of Hudson, and State of New Jersey, have invented a new and useful Improvement in Binding-Posts for Electric Terminals, of which the following is a specification.

My invention consists of an improvement on the ordinary binding posts for connecting wires to the terminals of electric batteries and other sources or carriers of an electric current.

The binding post more commonly used consists of a fixed screw carrying a binding nut for clamping the wire between it and the metallic base of the post or suitable washers therebetween. With this style of binding post it is often difficult to prevent the wire from slipping out from between the binding nut and base or the interposed washer or washers, when the nut is being screwed home or after it is screwed home, and the nut often works loose so as to break the circuit. In my invention, I provide a folded U-like strip of pliable conducting metal, one arm of which is fixed to and in contact with the terminal by a binding post, which passes through both arms of the folded strip and has a nut thereon binding said inner arm against the terminal and also an ordinary binding nut outside the outer arm to bind the wire passing between said arms and the binding post tightly between said arms and thus to the binding post and terminal. In connecting a wire to the binding nut thus fitted, the naked end of the wire is inserted loosely through the closed end of the U like strip, inside the threaded post, as an eye or keeper, or through a suitable aperture in one of the arms of the U like strip, and the wire is then usually bent or twisted around the binding post between the arms of the U like strip. The binding nut is then screwed up tightly on the post, closing up the outer arm of the U like strip and securely binding and connecting the wire thereby to the terminal.

I shall describe in detail the mode in which my invention is carried into practice, and then distinctly point out the invention in the claim.

Reference is to be had to the accompanying drawings forming part of this specifica-

tion, in which like parts are designated by the same numbers in all the figures.

Figure 1 is a sectional view illustrating the terminals of a battery to which one form of my improvement has been applied. Fig. 2 is a perspective view of the larger U like connecting strip shown in Fig. 1. Fig. 3 is a side elevation of the form of my improvement shown in Fig. 1. Fig. 4 is a perspective view of the smaller U like connecting strip shown in Fig. 1. Fig. 5 is a sectional view of a modified form of my invention. Figs. 6 and 7 are perspective views of the modified form of my invention shown in Fig. 5.

In all the figures, 10 designates the carbon terminal of an ordinary battery, and 11 the zinc terminal thereof, this type of battery being selected merely to illustrate one application of my invention.

In Figs. 1, 2 and 3, I have shown a thin strip of metal, preferably of flexible and slightly elastic brass or copper, bent to form a U, the outer arm, 12, of which is formed with a slot, 13, and the inner arm, 14, with an aperture, 15, in line with the slot 13. The inner arm 14 is in this example of my invention extended at right angles and then downward again to form the inverted U 16, the arm 18, of which is also by preference apertured at 19 in line with the aperture 15. To apply this form of my invention to the carbon terminal 10, I slip the inverted U 16 down over the top of the carbon terminal 10, as shown in Figs. 1 and 3, and pass a screw 20 through the aperture 19 in the arm 18, a hole in the carbon and the aperture 15 in the arm 4, and screw a nut 21 on the projecting end of the screw tightly against the arm 14 so as to secure the U strip tightly to the carbon 10. The threaded end of the screw 20 then passes loosely through the slot 13 in the outer preferably springing arm 12, and on its projecting end is screwed an ordinary binding nut 22, between which and the arm 12 a washer may, if desired, be interposed, as shown. To connect a wire 24 to the binding post thus fitted, I generally prefer to pass the naked end of the wire loosely through the eye or keeper formed by the screw or post 20 and the closed end of the U strip, as shown in Figs. 1 and 3, and then usually but not always twist the naked wire around the screw or post 20 between the

separated arms of the U-like strip. By then tightening up the binding nut 22, the wire is securely bound and connected between the free arm 12 of the strip and the fixed nut 21 serving as a base.

5 In the case of the zinc terminal 11 shown in Figs. 1 and 5, the extension 25 of the U-like strip 26 is shown straight and simply soldered to the zinc, while the screw or post 27 is vertical and the slot in the free arm 10 28 is shown open. The action and use of the U-like strip 26, however, is essentially the same as in the case of the carbon terminal described.

15 In the modification of my invention shown in Figs. 5 and 6, the U-like connecting strip 29 on the carbon terminal 10 has its outer arm 30 extended downward again to form an additional arm 31, inside the binding nut 22, and the naked wire 24 is shown passed 20 through the slot 13 and between the arms 30 and 31, between which it is tightly bound and secured against accidental disconnection by the binding nut 22 substantially as before 25 described. In the case of the zinc terminals shown in Figs. 5 and 7, the wire is passed

through an aperture 32 in the U-like strip 26 before being passed between the arms of the U.

In the case of the carbon terminal, the screw 20 is preferably fixed by soldering to the arm 18 (Figs. 1 and 2) or the arm 21 of the conducting strip, to prevent the screw 20 from turning with the binding nut 22.

Having thus set forth the nature of my invention and the mode in which it is carried into practice, I claim as my invention:

The combination, with an electric terminal, and a threaded binding post fixed thereto, of a folded strip of pliable conducting metal through both of whose arms the binding post passes, a nut screwed on said binding post outside the inner arm to bind the same against the terminal, and a binding nut on said binding post outside the outer arm to bind the connecting wire between said arms and the binding post, substantially as described.

ALEXANDER B. SIMPSON.

In presence of—

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