W. HECTOR.

ELECTRICAL BINDING POST.

APPLICATION FILED FEB. 27, 1908.

980,945. Patented Jan. 10, 1911.

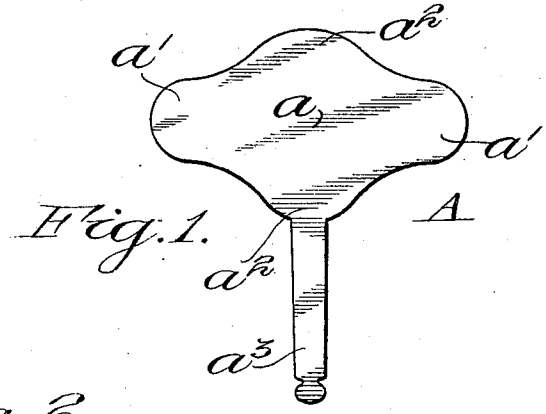


Fig. 1.

Fig. 2.

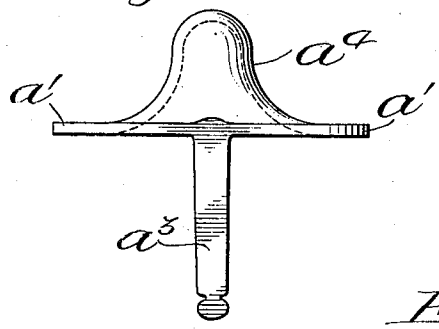


Fig. 3.

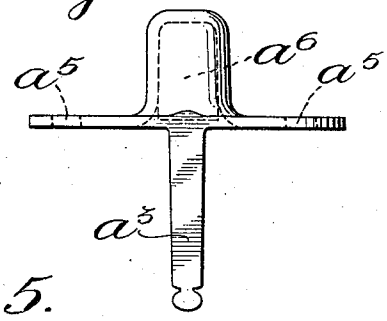
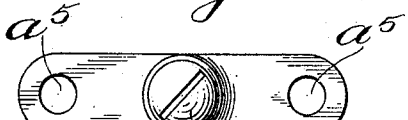


Fig. 5.



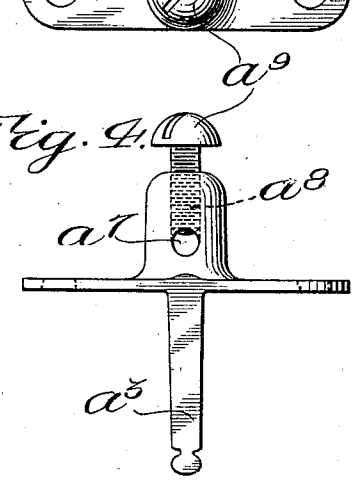


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM HECTOR, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO AUTOMATIC ELECTRIC COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

ELECTRICAL BINDING-POST.

980,945. Specification of Letters Patent. **Patented Jan. 10, 1911.**

Application filed February 27, 1908. Serial No. 418,086.

To all whom it may concern:

Be it known that I, WILLIAM HECTOR, a citizen of the United States of America, and resident of Chicago, Cook county, Illinois, have invented a certain new and useful Improvement in Electrical Binding-Posts, of which the following is a specification.

My invention contemplates a binding post constructed in a novel manner from a sheet-metal blank, and adapted for use in connection with electrical instruments of various kinds.

As hereinafter set forth, the binding post is constructed from a sheet-metal blank, pressed into the proper shape, the post portion thereof being reinforced by a plug upon which the sheet-metal is shrunk or contracted, which post is afterward drilled or bored and then tapped to provide sockets for the circuit wire and binding screw, as will hereinafter more fully appear. In this way the body of the binding post, the attaching portions thereof, and a circuit terminal of the same are all formed from the single sheet-metal blank, the only reinforcement consisting of the plug or filling for the inside of the post, as hereinafter set forth.

With the foregoing construction and method of manufacture I am enabled to provide a comparatively cheap and yet strong and thoroughly efficient binding post, adapted for use in connection with electrical instruments and apparatus of various kinds and descriptions.

To the foregoing and other useful ends, my invention consists in matters hereinafter set forth and described.

In the accompanying drawings Figure 1 is a plan view of the sheet-metal blank from which the body of the binding post is constructed. Fig. 2 is an edge view of the same, showing the first step in the formation of the blank into a binding post. Fig. 3 is a similar view illustrating the second step in the manipulation of the sheet-metal blank to form the completed binding post. Fig. 4 is a side elevation of the completed binding post, and illustrates the last step in the formation of the same. Fig. 5 is a plan view of the binding post shown in Fig. 4.

As shown in Fig 1, the sheet-metal blank A, which may be of brass or any other suitable material, has a central portion a, rounded side portions a^2, and narrower end portions a', one of the side portions a^2 being provided with an extension or stem-like portion a^3. In the manufacture of the binding post, the first step in the manipulation of the sheet-metal blank consists in drawing or pressing the middle portion a outwardly to form a hollow dome-shaped portion a^4, as shown in Fig. 2. This, it will be understood, may be done by any suitable arrangement of dies or other machinery. The next step consists in providing the end portions a' with openings a^5, and in shrinking or contracting the portion a^4 upon a metal plug a^6, and in bending the stem or terminal a^3 downwardly, as shown in Fig. 3. This can all be done in one operation by using suitable dies, and the binding post is now ready to be bored and tapped. The next step, therefore, consists in boring the post transversely to provide a socket a^7 for the circuit wire, and in drilling or boring the post vertically to provide a socket a^8, which latter is then tapped to receive the binding screws a^9. By means of the holes a^5 the completed binding post can now be secured in place by inserting screws or bolts or nails through said holes. The circuit connections can be made by soldering or otherwise attaching a wire to the terminals a^3, and by securing another circuit wire in the socket a^7, in the usual manner.

It will be seen from the foregoing that I provide a simple and efficient construction of binding post, the same being of such character that it is easily and cheaply manufactured with the necessity of employing but very little machine work, the different steps involving only die-work, with the single exception of boring and tapping the post. The post when completed has suitable attaching portions, as well as a circuit terminal, all formed from the sheet-metal, and in addition the post has a solid or thick portion which is bored and tapped to receive a circuit wire and a binding screw, after the fashion of an ordinary binding post. With this construction and method of manufacture the binding post can be produced at a comparatively low cost of manufacture.

It will be understood, of course, that I do not limit myself to the precise form of binding post shown, as the construction and form thereof may be varied in various ways to accommodate circuit connections of different kinds, without in any way departing from the spirit of my invention.

What I claim as my invention is:—

1. A binding post for making electrical connections, comprising a sheet-metal frame or body providing terminal and attaching portions, and a metal plug upon which a portion of the sheet-metal is shrunk or contracted, and in which sockets are formed for the circuit wire and binding screw.

2. A binding post for making electrical connections, comprising a sheet-metal blank bent into shape to provide attaching and terminal portions, a solid filling for the post, and a clamping screw extending into the post thus formed, as set forth.

3. A binding post for making electrical connections, comprising a sheet-metal frame or body, a solid metallic filling upon which a portion of the sheet-metal is shrunk or contracted, sockets extending through the said metallic filling and the sheet-metal inclosing the same, and a binding screw in one of said sockets.

4. A binding post for making electrical connections, comprising a sheet-metal frame or body providing oppositely-extending perforated attaching portions, and providing also a terminal and a dome-shaped portion, a metal plug within the said dome-shaped portion, sockets extending through the dome-shaped portion and the metal plug, and a binding screw in one of said sockets adapted for holding a circuit wire in the other socket.

5. The improved sheet-metal binding post having a cylindric metal plug upon which the sheet-metal forms a tight-fitting cover, and a clamping screw extending into the post thus formed, substantially as shown and described.

Signed by me at Chicago, Cook county, Illinois, this 17th day of February, 1908.

WILLIAM HECTOR.

Witnesses:
FRANKLIN J. TRUBY,
EDWARD D. FALES.