

1,044,923.

Patented Nov. 19, 1912.

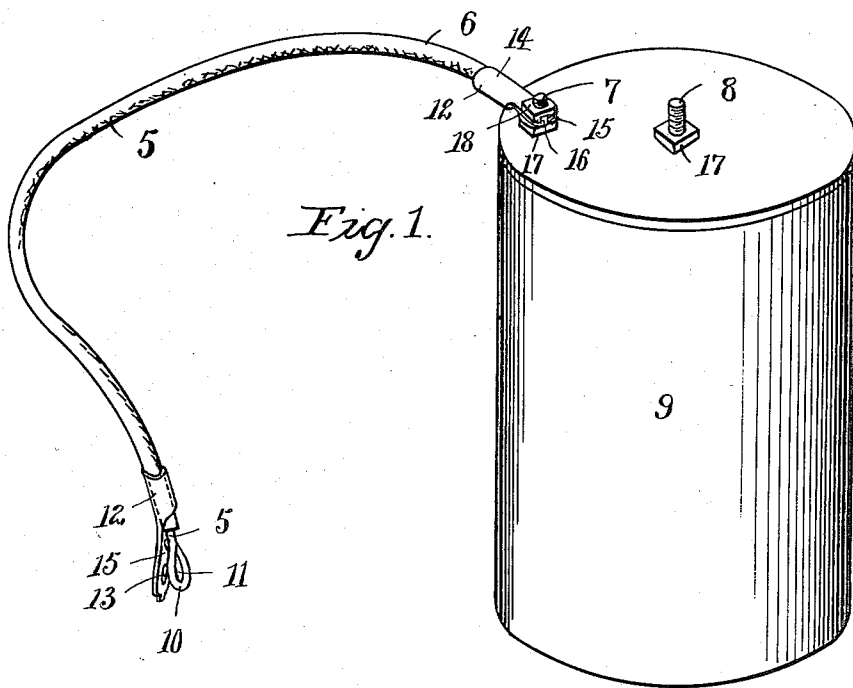


Fig. 2.

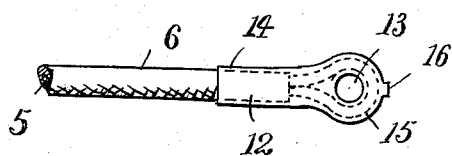


Fig. 3.

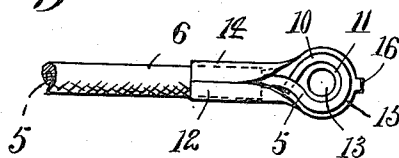
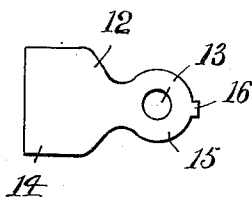


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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CORD-TERMINAL.

1,044,923.

Specification of Letters Patent.

Patented Nov. 19, 1912.

Application filed June 14, 1912. Serial No. 703,612.

To all whom it may concern:

Be it known that I, CHARLES B. SCHOENMEHL, a citizen of the United States, and resident of Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Cord-Terminals, of which the following is a specification.

My invention relates to terminal tips for electric conducting wires as used for attachment to the binding posts of batteries, spark plugs and similar connecting points.

It is the object of the invention to produce a simple design of terminal tip that can be inexpensively formed of a single piece of sheet metal in a way to materially stiffen and strengthen the connectable ends or eyes of the conducting wires in a way to prevent them from breaking at that point; to provide a reinforcing terminal which will sufficiently reinforce a small wire so that it can be used for a given purpose as for instance that of connecting batteries in series, and whereby an improved form of contact is obtained between the said binding posts and its nuts; and finally to provide a terminal of the above class which will also serve as a locking means to prevent the binding nuts that secure the terminals to the binding posts from working off.

On the accompanying sheet of drawings forming a part of this specification similar characters of reference denote like or corresponding parts throughout the several figures and of which,

Figure 1, shows a perspective view of an inclosed battery jar, and a short length of rubber covered electric conducting wire having two of my improved terminals formed upon the ends thereof, one of said terminals being attached to one of the binding posts of the said battery. Fig. 2, is a top plan view of one of the terminal ends of the wire shown in Fig. 1. Fig. 3, shows a bottom plan view of the terminal ends shown in the preceding figures and Fig. 4, shows a detached sheet metal blank from which the terminal tip shown in the other figures is formed.

By the use of my improved form of terminal for coupling batteries I am enabled to do away with the washers on the binding posts of batteries thus saving in part the extra cost of the terminal tip. My ability

to use lighter wire for battery connections when provided with the said terminals insures a further saving and upon the whole produces a much more durable and cheaper form of connection.

Upon the drawings I have shown an electric conducting wire 5 that is provided with a suitable rubber covering 6 said covering being stripped off from the ends of the conducting wire 5 so as to lay the same bare for attachment to the binding posts 7 or 8 as of a battery 9. The bare end portions 10 of this wire are bent around to form an eye 11, and are disposed against the sides of the main portions of the wire as shown in Figs. 2 and 3. The terminal tip proper is formed of a single piece of sheet metal 12, as seen in Fig. 4, that is cut, stamped and formed into the required shape to engage the ends of the rubber covering and the end portions of the bare wire. A hole 13 is formed in the blank to register with the eye 11 formed by the wire end to permit of the attachment of the assembled parts to the binding post 7 or 8 as shown. The shank portion 14 of the blank is tightly closed in around the end portions of the rubber covering and the wire to secure the tip thereto. The flat end portion 15 of the tip is normally disposed up off from the wire eye 11 and is provided with a small extended lip 16 that projects beyond the annular edge portion to form a locking means for the nut 16 that locks it to the binding post. In the attachment of my terminal binding post the same is applied over the end of the post with the sheet metal side 15 arranged uppermost, the wire side being disposed against the lower nut 17, whereupon the upper nut 18 is run down upon the post and against the said flat sheet metal end in a way to draw the same down tightly against the wire eye. The nut 18 is thus tightly set and lip 16 is bent up against the side of the nut as shown in Fig. 1 to prevent the same from becoming loosened.

This kind of a terminal can obviously be formed automatically from sheet metal, and likewise quickly and conveniently secured to the wire ends by suitable tools adapted for the purpose, all of which not only tend to protect and strengthen the wire but likewise to stiffen the sheet metal blank itself and improve the connection between the post and wire.

Having thus described my invention what I claim and desire to secure by Letters Patent is:—

1. In a terminal tip of the class described, 5 the combination with an eye formed in the end of a connecting wire, of a sheet metal tip attached to the end portion of the wire and having an extended flat portion that is normally disposed out away from the eye 10 formed in the wire end, but which is adapted to be drawn down against the wire when the terminal is secured to the binding post by a clamping means.

2. In a terminal tip of the class described, 15 the combination with an eye formed in the end of a connecting wire, of a sheet metal tip attached to the end portion of the wire and having an extended flat portion that is normally disposed out away from the eye 20 formed in the wire end and having a hole therethrough to register with the said eye, and said flat extension adapted to be drawn

down against the wire when the terminal is secured to the binding post by a clamping means.

3. In a terminal tip of the class described, 25 the combination with an eye formed in the end of a connecting wire, of a sheet metal tip attached to the end portion of the wire and having an extended flat portion that is 30 normally disposed out away from the eye formed in the wire end, but which is adapted to be drawn down against the wire when the terminal is secured to the binding post by a clamping nut, said flat portion also 35 having a lip that is adapted to be turned up against the nut.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 27th day of May, A. D. 1912.

CHARLES B. SCHOENMEHL.

Witnesses:

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