J. G. PETERSON.

ELECTRICAL CONNECTOR CLIP.

APPLICATION FILED MAY 6, 1914.

1,195,079.

Patented Aug. 15, 1916.

Fig. 1.

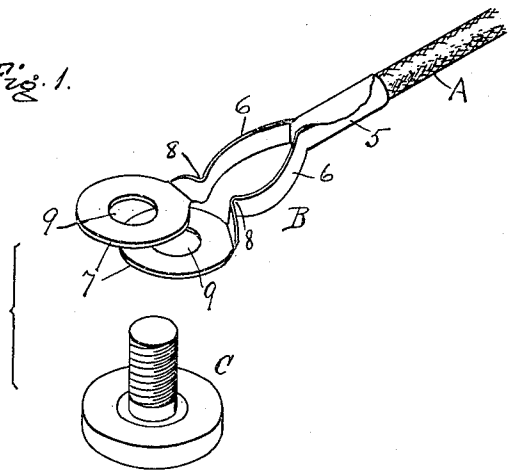


Fig. 4

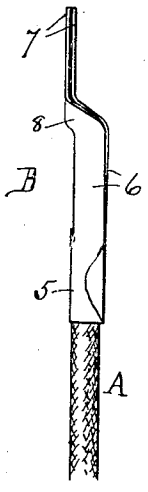


Fig. 2.

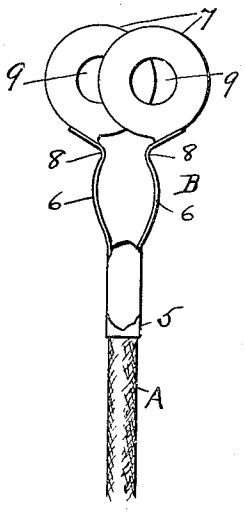
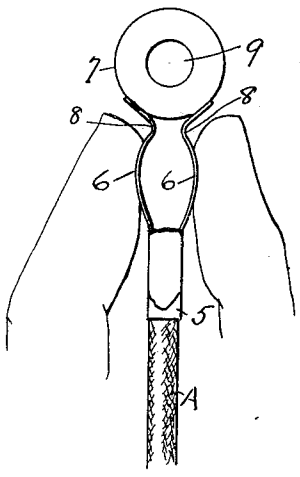


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHANN G. PETERSON, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO MANHATTAN ELECTRICAL SUPPLY COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

ELECTRICAL CONNECTOR-CLIP.

1,195,079. Specification of Letters Patent. Patented Aug. 15, 1916.

Application filed May 6, 1914. Serial No. 836,777.

To all whom it may concern:

Be it known that I, JOHANN G. PETERSON, a citizen of the United States of America, residing in Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Electrical Connector-Clips, of which the following is a specification.

My invention relates to electrical connector clips of that class in which spring arms secured to a conductor carry apertured parallel plates or jaws to be passed over, and to grip, a connecting post of a dry battery or the like, the elasticity of said arms causing the plates or jaws to tend to spread apart and to grip the connecting post.

The main object of my invention is to so construct the clip as to make it more convenient to be handled by the user than has been possible with clips of this general character as heretofore made. This object I attain by making the spring arms much longer than heretofore and bowed outwardly so as to make the arms themselves the finger holds to press the jaws or plates into alinement when applying the clip to the connecting post or removing it therefrom.

In the accompanying drawing, Figure 1 is a perspective view of my improved clip and a connecting post to which it may be applied; Fig. 2 is a face view; Fig. 3 is a corresponding view showing the spring arms pressed together to aline the gripping plates; Fig. 4 is an edge view.

A indicates the usual covered conducting cord, while B is the elastic metal connecting clip, and C indicates an electrical binding or connecting post to which the clip may be applied. This clip B has a ferrule-like part 5 to which the bared ends of the strands of the conductor are mechanically secured in any usual or convenient way and preferably with the aid of solder for security's sake. This ferrule 5 has two long spring arms 6, 6, which I prefer to make almost twice as long as the spring arms of clips of the like type heretofore made, and further these elastic arms 6, 6, are bent or bowed outwardly to afford ample finger holds for the application of the finger and thumb of a user thereto, as seen in Fig. 3.

The outer end of each spring arm carries a plate 7 preferably lying in a plane approximately parallel to the plane in which the spring arms 6, 6, move when pressed by the fingers. Each plate 7, which is connected to its arm 6 by a short bend 8, has a central aperture 9, large enough to go freely over a binding post such as C. The normal or free positions of these elastic arms are such as to hold the plates 7, 7, out of line with each other, as seen in Figs. 1 and 2, but by taking the pair of elastic arms between the finger and thumb, and pressing them together, the apertures of the two plates can be brought into line with each other, and set down upon the post, such as C. Upon releasing the pressure of the finger and thumb the two elastic arms will tend to spring out of alinement again, and the plates accordingly caused to grip the post.

The length of the spring arms 6, 6, gives increased elasticity and at the same time this length together with the outward bends gives finger holds for the finger and thumb and at a point where it will not interfere with the convenient application of the gripping plates to the connecting post or their removal therefrom. The freedom from marginal flanges at opposite sides of the plates also makes it easy to apply or remove a securing nut.

I claim as my invention:

1. The herein described electrical connecting clip, comprising a pair of overlapping plates having apertures adapted to be brought into register, a shank, and a pair of spring arms extending between the shank and the overlapping plates and attached to the edges of the latter on opposite sides of, but adjacent, the extended axis of the shank when the apertures of the plates are in register, said spring arms forming finger grips and serving to normally maintain said plates with their apertures out of register.

2. The herein described electrical connecting clip comprising a pair of overlapping plates having apertures adapted to be brought into register, a shank, and a pair of spring arms diverging from the shank and having at their outer ends recurved portions attached to the gripping plates on opposite

sides of, but adjacent, the extended axis of the shank when the apertures of the plates are in register, said spring arms forming finger grips and serving to normally maintain said plates with their apertures out of register.

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

JOHANN G. PETERSON.

Witnesses:
FREDERICK R. LINK,
P. A. HOLM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."