W. P. HAMMOND.

CONNECTOR.

APPLICATION FILED SEPT. 26, 1912.

1,086,820. Patented Feb. 10, 1914.

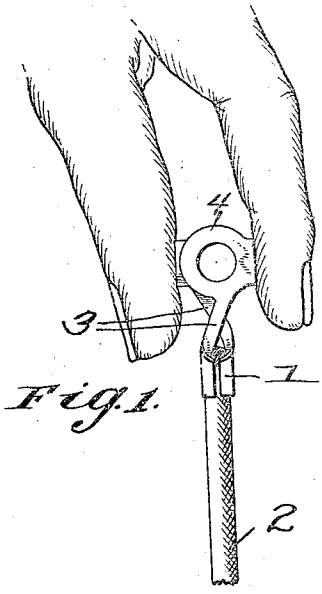


Fig. 1.

Fig. 2.

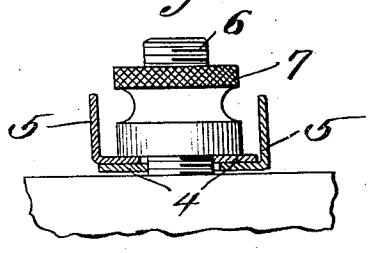


Fig. 3.

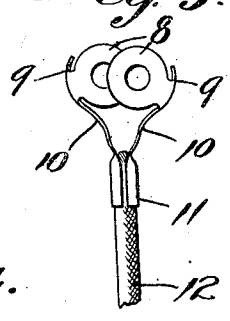
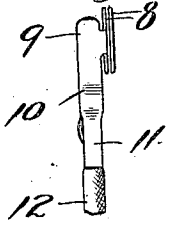


Fig. 4.



WITNESSES

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CONNECTOR.

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To all whom it may concern:

Be it known that I, WILLIAM P. HAMMOND, citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Connectors, of which the following is a specification.

The present invention relates to certain new and useful improvements in connectors or cord terminals such as are commonly employed in connection with the wires or conductors which are utilized for connecting a number of batteries together.

The object of the invention is the provision of a device of this character which is comparatively simple and inexpensive in its construction, which is peculiarly constructed so as to provide an extended bearing surface for the fingers when placing the connector in position or removing it therefrom, and which can be used either with or without the binding nut as may be found most convenient.

With this and other objects in view, the invention consists in certain novel combinations and arrangements of the parts as will more fully appear as the description proceeds, the novel features thereof being pointed out in the appended claims.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a plan view of a connector constructed in accordance with the inven- the two plates being shown as sprung by the pressure of the fingers so openings therein in aline- her. Fig. 2 is an enlarged owing the connector as ap- ing post. Fig. 3 is a plan ified form of the invention, a side elevation of the said of the invention.

ling and like parts are referred ollowing description and indi- views of the drawing by ce characters.

s. 1 and 2 of the draw- esignates the stock or which is suitably d or otherwise of a con- 3 extend ement with the conductor 2, the said arms having a spring action and being shown in the present instance as crossing each other and twisted into parallel planes. Each of these spring arms 3 carries a perforated plate 4, the said perforated plates having a superposed relation and sliding freely upon each other. The spring action of the arms 3 normally slides the plates 4 to throw the perforations thereof out of registry with each other, although when applying the connector to a binding post or removing it therefrom, the plates 4 are moved against the action of the spring arms 3 to bring the perforations into registry so that the binding post will move freely through the perforations.

In order to provide an extended bearing surface for the fingers when pressing inwardly upon the edges of the plates 4 in the act of applying or removing the connector, each of the said plates 4 is provided at the outer edge thereof with a flange or finger piece 5 which is extended laterally at right angles to the plate. These finger pieces 5 enable the connector to be readily manipulated without any discomfort to the operator. In Fig. 2 the connector is shown as applied to a binding post 6, and it will be observed that the nut 7 is screwed down upon the plates 4, the said nut being received between the finger pieces or wings 5.

In Figs. 3 and 4 a slight modification is shown. The numerals 8 designate a pair of perforated plates which have a superposed relation and are adapted to slide freely over each other, the said plates corresponding to the previously described plates 4 and operating in a similar manner to engage the binding post 6 when applied thereto. The outer edge of each of these perforated plates 8 is provided with a finger piece or flange 9 which is extended at right angles to the plane of the plate, the said finger pieces or flanges serving to provide an extended bearing surface for the fingers of the operator, and being so positioned as to receive the binding nut between the same, in a manner corresponding to that illustrated by Fig. 2. The perforated plates 8 are carried by the spring arms 10 which connect the stock 11 to the finger pieces 9, the said stock 11 being adapted to be twisted around or otherwise applied to the extremity of a conductor 12. By grasping the finger pieces 9 between the thumb and forefinger of the hand, the perforated plates 8 can be sprung in-

wardly so as to bring the perforations thereof into registry with each other. The conductor can then be readily applied to a binding post or like member, and as soon as the pressure of the fingers is released, the spring action of the arms 10 will tend to throw the perforated plates 8 back to their original position and cause the edges of the perforations thereof to engage and produce a good electrical connection with the binding post. As previously mentioned, the finger pieces or flanges 9 are extended at substantially right angles to the plane of the perforated plates 8 so as to readily receive a binding nut between the same should it be found desirable to use a binding nut.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A cord terminal including a single pair of flat superposed plates having corresponding openings therein adapted to receive a binding post, resilient means acting upon the plates to slide the same upon each other, and opposed finger engaging flanges projecting at substantially right angles from the outer edges of the plates, said finger engaging flanges terminating in free edges spaced from the plane of the plates and being positioned so as to be susceptible of receiving the clamping nut of the binding post between the same.

2. A cord terminal including a single pair of flat superposed plates having corresponding openings therein for receiving a binding post, resilient means acting upon the plates to slide them over each other, and opposed finger engaging flanges projecting at substantially right angles from the outer edges of the plates and terminating in free edges spaced from the plane of the plates, said flanges providing extended bearing surfaces for the fingers of the operator.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM P. HAMMOND.

Witnesses:

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