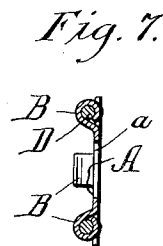
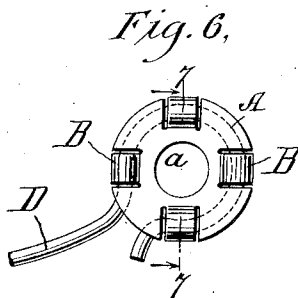
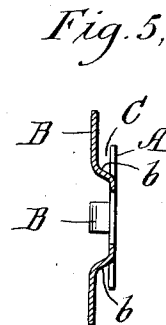
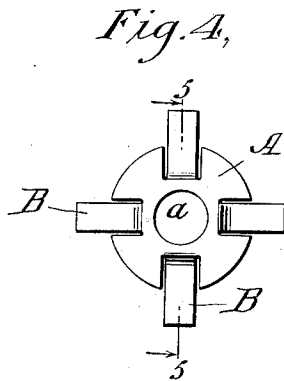
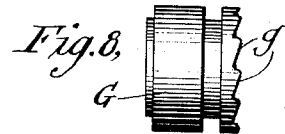
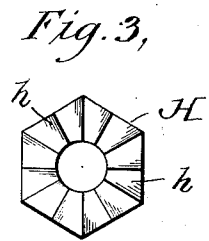
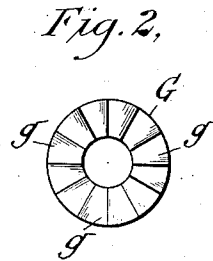
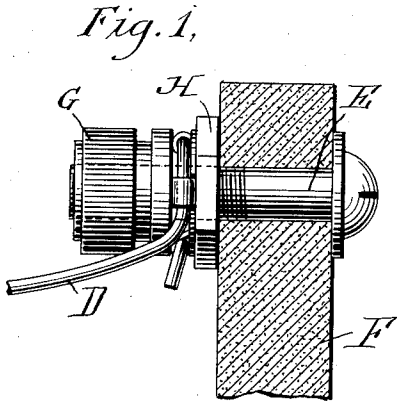


No. 883,201.

PATENTED MAR. 31, 1908.

H. T. JOHNSON.  
TERMINAL CONNECTOR.  
APPLICATION FILED MAR. 22, 1906.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

HARRY T. JOHNSON, OF NEW YORK, N. Y.

## TERMINAL CONNECTOR.

No. 883,201.

Specification of Letters Patent.

Patented March 31, 1908.

Application filed March 22, 1906. Serial No. 307,393.

*To all whom it may concern:*

Be it known that I, HARRY T. JOHNSON, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have made certain new and useful Improvements in Terminal Connectors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

The object of my invention is the provision of a device by means of which a terminal of an electric conductor may be readily and securely attached to a binding post or similar electrical contact member, and it consists of such a device having the characteristics hereinafter described and specifically pointed out in the claims.

In the accompanying drawings Figure 1 is a view showing my invention applied to the carbon electrode of a galvanic battery; Figs. 2 and 3 are face views of a modified form of binding nut and washer respectively; Fig. 4 is a plan view of my improved connector; Fig. 5 is a sectional view thereof on the line 5—5 (Fig. 4); Fig. 6 is a plan view of the connector showing a circuit wire secured thereto; Fig. 7 is a sectional view thereof on the line 7—7 (Fig. 6), and Fig. 8 is a view showing a modified construction.

Similar reference characters are employed to designate like parts in all the views.

The drawings, for the sake of clearness, are made on a somewhat enlarged scale; but as will be understood the size of the connector may be varied to suit different conditions of use.

The connector is preferably constructed of flexible sheet metal such as soft copper, and consists of a plate or disk A provided as shown with a central aperture *a* (intended to fit over a binding post or other similar contact member) and having a plurality of arms B which are preferably integral with the plate and extend radially beyond the edges thereof. The arms B are offset from the plate at some distance inside the edge thereof so as to form a recess C between the arms and the surface of the plate in which the terminal of a flexible conductor D may be placed and drawn tightly against the offset portions *b* of the arms B. When thus in place the ends of the arms B are bent around the conductor D as shown in Figs. 6 and 7. The conductor is

thus readily attached to the connector and a secure and extended metallic contact between the two is provided.

The connector with the conductor attached is then placed over the binding post E carried by the battery carbon F, and the binding nut G is screwed down, clamping the connector against the washer H and pressing the parts tightly and securely together.

I have for the sake of brevity and clearness limited the foregoing description to the use of my invention on the carbon electrode of a battery, but it is not to be understood that my invention is to be limited to that particular purpose since it may be used as a connector for all kinds of electrical apparatus and devices.

In Fig. 1 I have illustrated an ordinary form of contact members employed on many kinds of electrical apparatus; but I prefer to use my connector in combination with the special form of binding nut, shown in Figs. 2 and 8, in which the clamping surface of the nut is indented as by forming it with the projections or serrations *g*. With this form of binding nut, when it is screwed home, the bent arms B will be forced into the depressions between the projections or teeth *g*, and the parts will be locked together sufficiently to prevent the binding nut from working loose and impairing the contact. If desired, the binding washer H may be similarly indented or serrated as shown in Fig. 3.

Since a conductor may be securely attached to the connector before the latter is placed in position, my invention makes it possible to connect up batteries and other apparatus with great facility and with the certainty of securing perfect contacts even where the location of the apparatus is such that observation of the connections is difficult or impossible. And although the connector may be readily removed from the conducting wire, the permanency of their connection permits batteries which have become exhausted, or other apparatus, to be replaced and reconnected with a minimum amount of labor.

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

1. A terminal connector comprising an apertured plate, and flexible integral arms offset from the plate and extending out-

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wardly from the aperture on opposite sides thereof, terminal seats formed by the offsets of the arms, said plate having portions projecting beyond the seats and said arms being adapted to be bent over the terminal to hold the terminal against the seats and the projecting portions of the plate.

2. The combination with a contact member, of a conductor terminal, an apertured plate provided with radially projecting arms on opposite sides of the aperture bent around the conductor terminal, and a clamping member on the contact member and hav-

ing indentations on its clamping surface which engage the bent arms of the plate. 15

3. The combination with a contact member, of an apertured plate provided with flexible projecting arms, offset therefrom, and with portions intermediate the arms which project beyond the offsets, and a conductor terminal held by the arms between said intermediate portions and said arms. 20

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