

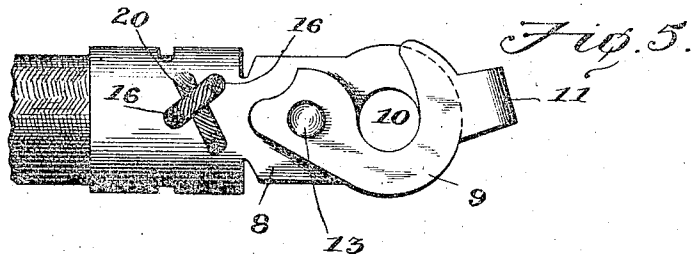
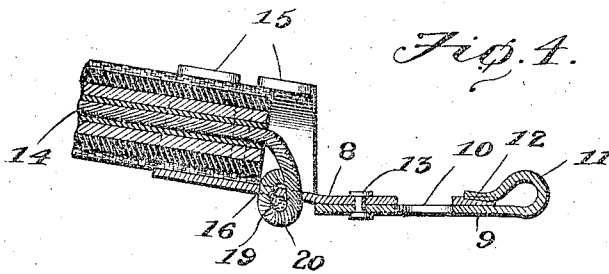
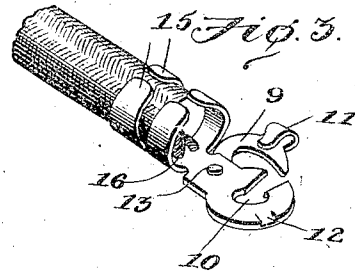
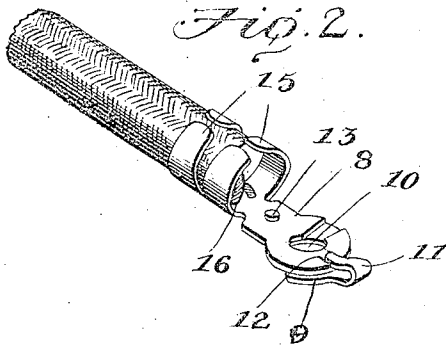
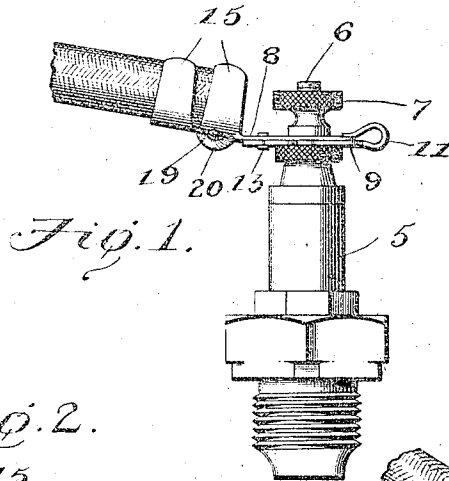
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PATENTED OCT. 15, 1907.

H. E. SOHNER & W. H. BENJAMIN.

TERMINAL OR CONNECTING CLIP FOR ELECTRIC WIRES.

APPLICATION FILED APR. 13, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HARRY E. SOHNER AND WILLIAM H. BENJAMIN, OF MONTCLAIR, NEW JERSEY.

TERMINAL OR CONNECTING-CLIP FOR ELECTRIC WIRES.

No. 868,306.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed April 13, 1906. Serial No. 311,584.

To all whom it may concern:

Be it known that we, HARRY E. SOHNER and WILLIAM H. BENJAMIN, citizens of the United States, residing at Montclair, in the county of Essex and State of New Jersey, have invented a new and useful Terminal or Connecting-Clip for Electric Wires, of which the following is a specification:

This invention relates to terminals or connecting clips for electric conductors, and has for its object to provide improved means for attaching the terminals of an energized circuit to the sparking plug of a gas engine or to the binding posts of telegraph, telephone or other electrical instruments or apparatus.

A further object of the invention is to provide a terminal comprising a pair of clamping members adapted to engage the binding post and provided with interlocking parts, one of said members being movable laterally to open position and provided with means for supporting a conductor.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a side elevation of a terminal or connecting clip constructed in accordance with my invention. Fig. 2 is a perspective view of the clip or terminal detached showing the members in locked or operative position. Fig. 3 is a similar view showing the clamping members in open position. Fig. 4 is a longitudinal sectional view, and Fig. 5 is a bottom plan view.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved terminal or connecting clip which may be used in connection with electrical apparatus in general is principally designed for connecting an energized circuit to the sparking plug of a gas engine, and by way of illustration is shown applied to a sparking plug of the ordinary construction in which 5 designates the plug and 6 binding post on which is threaded the clamping nut 7.

The device consists of a relatively stationary clamping member 8 and a movable clamping member 9 each

provided with an inwardly extending slot or socket 10 adapted to receive the binding post 6 when said members are moved to closed or operative position. The marginal rim of the movable member 9 is formed with a spring hook or locking device 11 adapted to engage a notch or recess 12 formed in the marginal edge of the mating member 8 so that when said members are moved to closed position the bill of the hook will enter the notch and thereby prevent accidental displacement of said members. The stationary member 8 is extended laterally beyond the pivot 13 to form a support for one end of an electric conductor 14, said extension being provided with curved upwardly extending spaced arms 15 adapted to embrace and clamp the conductor as shown. The extension of the member 8 is formed with one or more openings 16 through which the adjacent end of the conductor 14 is threaded so as to assist in retaining the latter in position on the extension and also to insure a good electrical contact between the conductor and the connecting clip. The free end 19 of the conductor is preferably threaded beneath the loop 20 so that when a longitudinal pull is exerted on the free end of the conductor the loop will bind the latter and thereby securely clamp the same to the member 8.

In attaching the terminal or clip to the sparking plug, the member 9 is swung laterally into open position and the binding screw or post 6 introduced in the slot or socket 10, after which the member 9 is moved to closed position thereby causing the hook 11 to enter the notch or depression 12 and securely lock the parts together. In order to release the clip it is merely necessary to exert a slight lateral pressure on the hook 11 when the movable member 9 may be swung outwardly so as to permit the terminal or clip to be readily detached.

Attention is called to the fact that the hook 11 not only forms a means for locking the clamping members in closed or operative position but also forms a finger piece to assist in moving the same to open position.

While the device is especially designed for use in connection with sparking plugs it is obvious that the same may be used on binding posts of various kinds or wherever a device of this class is found desirable.

Having thus described the invention what is claimed is:

1. A terminal comprising relatively stationary and movable clamping members one of which is formed with a depression and the other with an over-hanging spring hook adapted to enter the depression for locking said members in engagement with each other.

2. A terminal comprising relatively stationary and movable clamping members one of which is formed with a

depression and the other with an over-hanging hook adapted to engage the depression for locking said members in engagement with each other, one of said members being provided with means for supporting a conductor.

- 5 3. A terminal comprising relatively stationary and movable clamping members provided with sockets adapted to register with each other when the movable member is moved to closed position, one of said members being provided with a depression and the other with an over-hanging hook the bill of which is adapted to enter the depres-
- 10

sion for locking said members in engagement with each other.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

HARRY E. SOHNER.
WILLIAM H. BENJAMIN.

Witnesses:

CHAS. G. GIFFIN,
ALFRED S. BADGLEY.