No. 634,862. Patented Oct. 17, 1899.

J. N. BAGGETT.

TOOL FOR ELECTRICIANS.

(Application filed July 19, 1898.)

(No Model.)

FIG. 1.

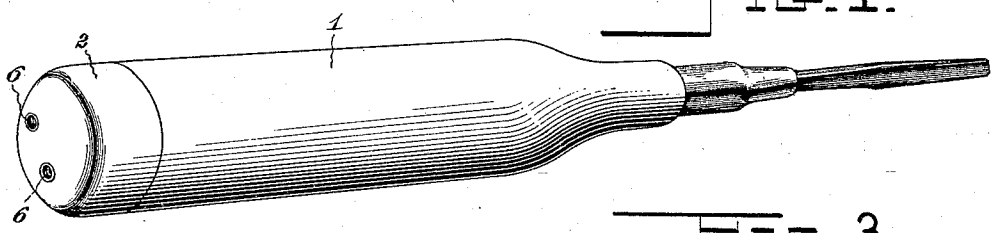


FIG. 3.

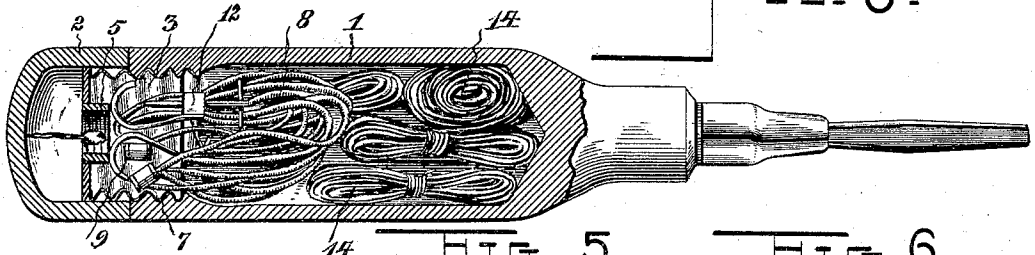


FIG. 4.

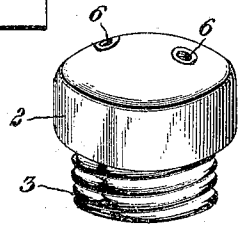


FIG. 5.

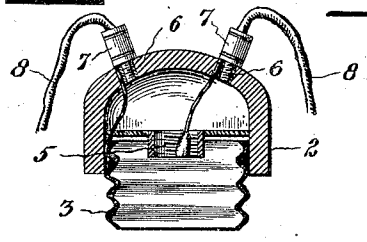


FIG. 6.

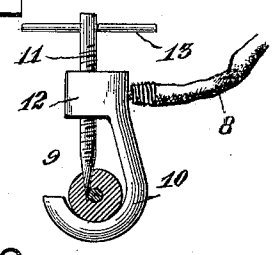


FIG. 2.

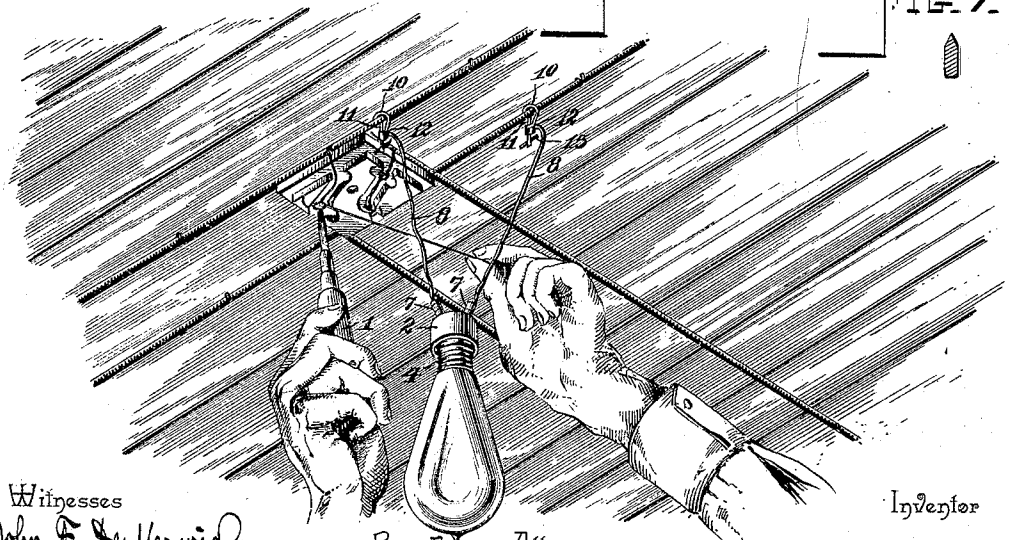


FIG. 7.

Witnesses
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UNITED STATES PATENT OFFICE.

JAMES NELSON BAGGETT, OF BARTOW, FLORIDA.

TOOL FOR ELECTRICIANS.

SPECIFICATION forming part of Letters Patent No. 634,862, dated October 17, 1899.

Application filed July 19, 1898. Serial No. 686,366. (No model.)

To all whom it may concern:

Be it known that I, JAMES NELSON BAGGETT, a citizen of the United States, residing at Bartow, in the county of Polk and State of Florida, have invented a new and useful Tool for Electricians, of which the following is a specification.

My invention relates to a tool designed for the use of electricians in connection with the operation of wiring, inserting and replacing fuses, &c.; and the object in view is to provide in a compact and simple form a tool, such as a screw-driver, of which a part detachable from the body of the tool constitutes a lamp-socket and at the same time a cap or cover for a receptacle formed in the body portion of the tool for containing fuse-wires, line-wire-tapping clamps, and connections whereby the tapping of line-wires at desired points to enable a workman to obtain light in replacing or repairing fuse-boxes may be accomplished with facility.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a view of a tool constructed in accordance with my invention. Fig. 2 is a perspective view of the same, showing the detachable parts thereof in operative position. Fig. 3 is a side view of the tool with its handle sectioned to show the arrangement of the contents of the cavity or receptacle. Fig. 4 is a detail view in perspective of the combined receptacle-cap and lamp-socket. Fig. 5 is a detail sectional view of the cap, showing the engagement of the connected plugs therewith. Fig. 6 is a detail view of one of the tapping-clamps. Fig. 7 is a detail cross-section of the screw-driver blade to show a culling-knife edge adapted for facilitating the removal of insulation from a wire in order to bare it for making connections.

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

The essential features of my invention may be found in a tool, such as a screw-driver, commonly employed by electricians in wiring, introducing fuses, &c., and otherwise repairing and making connections between line-wires or mains and branch wires, as in tapping for branch connections, &c., such tool having a handle 1, which is hollowed out or recessed to form a cavity or receptacle adapted for fuse-wires and other articles and fitted with a removable cap or cover 2, which may be affixed to the body portion of the handle by any approved means. In the preferred construction of my invention the removable cap or cover is provided with an extension 3, forming a lamp-socket, and interiorly threaded or otherwise constructed, as in the ordinary practice, to receive a lamp-plug 4. Also in the ordinary practice this lamp-socket is struck from sheet metal, whereby threads are formed exteriorly thereon, although it will be understood that this feature of the construction may be varied if it should be desired to form the extension or socket portion integral with the body portion of the cap. The extremity of the cavity or receptacle in the handle is interiorly threaded or otherwise constructed to engage the exterior surface of the extension 3, whereby the cap may be readily attached to and disengaged from the body portion of the handle, as may be required to suit the requirements of the operator. The cap, in all essential principles, is constructed to correspond with a lamp-socket in that it is provided, in addition to the socket 3, with a contact-seat 5, which should be suitably insulated, as in the ordinary practice, to prevent short-circuiting, and with which are connected terminals 6, constructed to form seats for the reception of circuit or connection plugs 7 at the extremities of flexible connections 8. At the other extremities of the connections which carry said plugs are line-wire-tapping clamps 9, each of which consists of a hooked stationary jaw or seat 10, adapted to bear against one side of a line-wire, and an adjustable puncturing contact-pin 11, threaded in a guide 12 on the stationary jaw or seat and terminally reduced or pointed to puncture the insulation of a line-wire by the turning of a pin in its guide, and thereby effect a contact with the wire proper. Said contact-pin preferably carries a cross-head or finger-hold 13 to facilitate the adjustment of the pin. These con-

nections, including the plugs, short wires, and tapping-clamps, are adapted to be arranged normally in the cavity or receptacle of the handle, after which the removable cap, which forms the lamp-plug socket, may be fitted to place, as indicated in Figs. 1 and 3. Also one or more coils or bundles of fuse-wire 14 may be arranged in said cavity for the convenience of the operator in making connections and repairs.

From the above description it will be seen, in the first place, that in the tool embodying my invention are included all of the requisites for enabling an operator to tap a line-wire in order to give light during the making of branch connections and the effecting of repairs. For instance, it frequently happens that it is necessary to introduce fuse-wires or repair a blown-out fuse in the dark or in such a position as to make it impossible for the operator to obtain sufficient light to help him in the operation. Under such circumstances the device embodying my invention will be found of advantage in that the legs of the circuit may be tapped by the application of the tapping-clamps, the lamp-plug socket may be connected by the plug and attachments to said tapping-clamps, and a lamp fitted in the socket to light the operator during the work. It will be understood, furthermore, that while in the drawings I have illustrated a preferred embodiment of my invention wherein the parts form elements of or attachments to a screw-driver the same may be used in connection with other analogous tools used by electricians and others in making repairs or connections where an insufficiency of light forms an obstacle in the way of operating with facility, and also that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I claim is—

1. A tool having its handle fitted with a cap forming a lamp-plug socket provided with connected wire-tapping devices, substantially as specified.

2. A tool having a hollow handle forming a receptacle, and a cap removably fitted upon the handle to close said receptacle, and constructed to form a lamp-plug socket, substantially as specified.

3. A tool having a hollow handle forming a receptacle, and a cap removably fitted upon the handle to close said receptacle, and provided with a threaded extension forming a lamp-plug socket, and adapted to be fitted into the extremity of the receptacle in said handle to secure the cap in place, substantially as specified.

4. A tool having a hollow handle forming a receptacle, and a cap removably fitted upon the handle to close said receptacle, said cap being constructed to form a lamp-plug socket, and having leading-in connections terminating in seats, substantially as specified.

5. A tool having its handle provided with a receptacle, and fitted with a removable cap constructed to form a lamp-plug socket, and connections, attached to said cap and provided with line-wire-tapping clamps, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES NELSON BAGGETT.

Witnesses:
D. W. STANLEY,
C. E. REED.