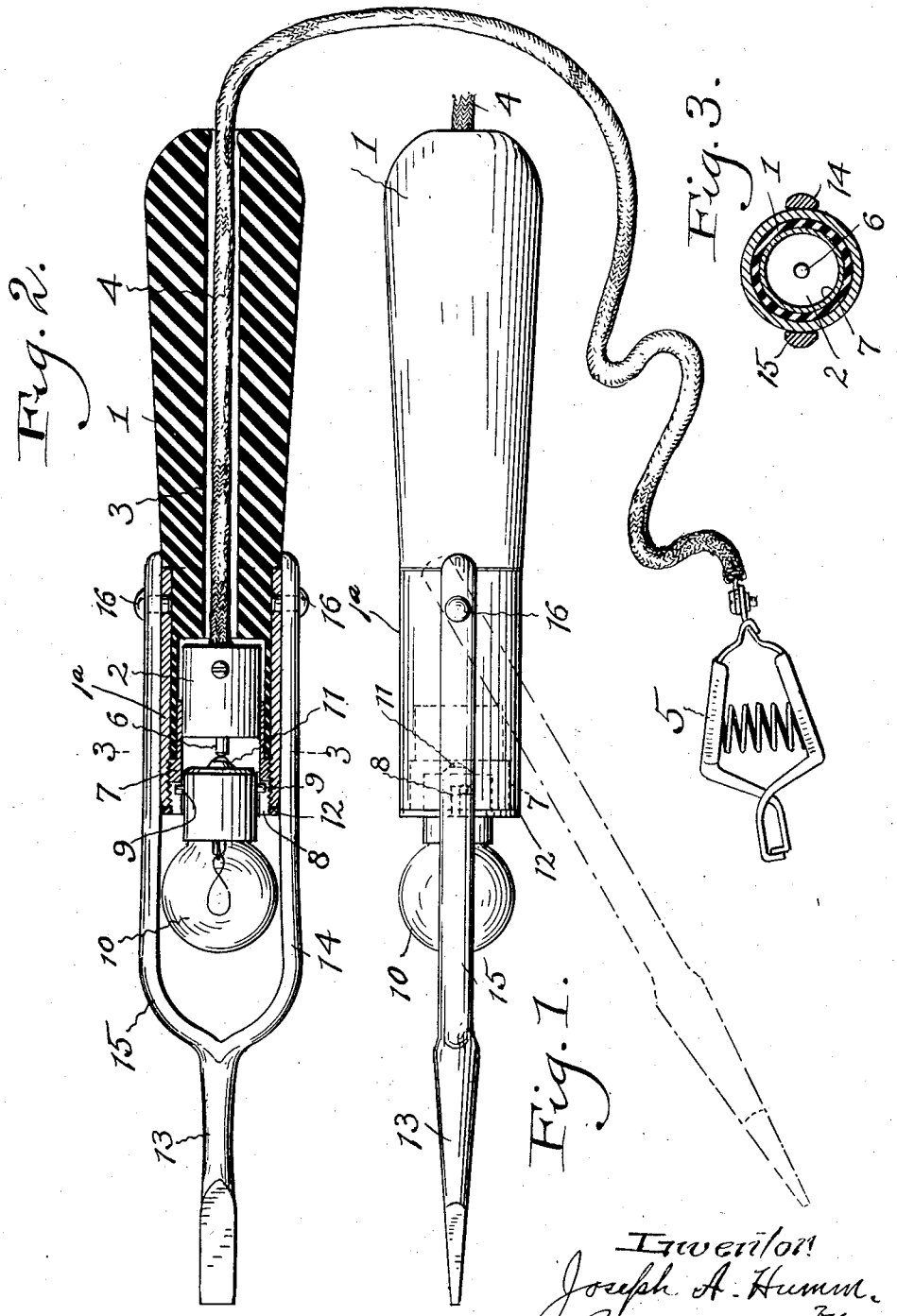
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COMBINED TOOL AND ELECTRIC BULB

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COMBINED TOOL AND ELECTRIC BULB.

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This invention relates to a tool or implement, as it may be termed, which is particularly intended for use around an automobile, although it may be used in other places where conditions are proper, with the same facility as it can be used in connection with an automobile.

The object of the invention is to provide a tool which is provided with an electric lamp which forms a part of the tool, the lamp being caused to be lighted by using the electrical system of the automobile itself, which will serve to provide a light in connection with the use of the tool itself, or may be used to provide a light when seeking for trouble about a machine, and also may be used in connection with testing out the ignition circuit to find if there are any shorts.

Reference should be had to the accompanying drawings forming a part of this specification, in which Fig. 1 is a side elevation; Fig. 2 is a front elevation with portions in section; Fig. 3 is a section on the line 3—3 of Fig. 2.

Referring to the drawings, 1 indicates a handle which is preferably made of wood or some equivalent electrically non-conducting material. The handle 1 is provided with a recess at the end thereof formed by a projecting sleeve 1^a in which there is fitted a plug member 2 whose function will be subsequently described. There is also a hole 3 which is drilled longitudinally through the handle 1, and provides a passageway through which a conducting wire 4 may pass which conducting wire at its end is provided with a clip 5 of any desired construction. The plug 2 is of usual type having a center electrode 6 which is electrically connected with the wire 4. The plug also has an inner sleeve on casing 7 which may be made of brass or any other conducting material secured into the sleeve 1^a, and it co-operates with the plug 2 which is made of insulating material of some character. The member 7 has a pair of oppositely disposed bayonet slots which are indicated at 8, and these slots are adapted to receive the pins 9 which are carried by the conducting base of a lamp 10, this lamp being also provided with a central electrode 11 which is adapted to co-operate with the electrode 6. All the foregoing is well known construction.

At the outer end of the sleeve 7 there is an annular flange 12 which overlies the end of the sleeve 1^a and engages therewith to limit the inward movement of the sleeve 7. Pivotally mounted upon the sleeve 1^a is an implement 13 and the shank of this implement is split to provide the two legs 14 and 15 which at their lower ends are pivoted to the sleeve 1^a, as indicated at 16 so that the implement may be swung about its pivot points. It will be readily seen in Fig. 2 that the legs 14 and 15 being pivotally connected to the metal sleeve 1^a are in electrical contact therewith and also with the member 7 which is screw threaded into the sleeve 1^a which carries the lamp 10.

In the present instance the implement, which is shown is a screw driver, but it will be obvious that other implements may be used instead of a screw driver without in any way departing from the spirit of this invention.

In the modern automobile the usual electrical circuit is what is known as a one wire system in which one wire from the battery connects with the several electrical instrumentalities associated with the car, and the return circuit is through the frame and other metal parts of the car to the other terminal of the battery.

In such a type of automobile if the clip 5 be attached to the battery or to a terminal in the wiring system and the implement end be touched to another metal part of an automobile in such a way as to establish a circuit then the lamp 10 will be lighted. The device when so used may serve as a trouble lamp giving a light at a portion of the machine where it is desired to have one.

In the event that the implement be used to accomplish some purpose such as the screwing in a screw, or something of this kind, then the light will be available at the time the implement is in use. It may also be used in testing out the ignition or lighting circuit in order to find where there is a short circuit.

Having described my invention, I claim:—

1. A device of the character described, comprising a handle having a reduced end portion, an axial recess in the reduced end, a longitudinally extending hole in said handle, a flexible conductor disposed in said hole, a sleeve secured to said reduced end and extending forwardly thereof, a socket attached to said sleeve and adapted to receive the end of said conductor, a lamp mounted in said socket in electrical connection with said

sleeve, and an implement pivotally connected to said sleeve and adapted to bridge said lamp.

2. A device of the character described, comprising a handle having a reduced end portion, an axial recess in the reduced end, a longitudinally extending hole in said handle, a flexible conductor disposed in said hole, a sleeve secured to said reduced end and extending forwardly thereof, a socket attached to said sleeve and adapted to receive the end of said conductor, a lamp mounted in said socket in electrical connection with said sleeve, and an implement having bifurcated ends pivotally connected to said sleeve, the bifurcated portion being adapted to bridge said lamp.

In testimony whereof, I hereunto affix my signature.

JOSEPH A. HUMM.