

G. N. EASTMAN.
BATTERY LAMP SOCKET.
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985,018.

Patented Feb. 21, 1911.

Fig. 1.

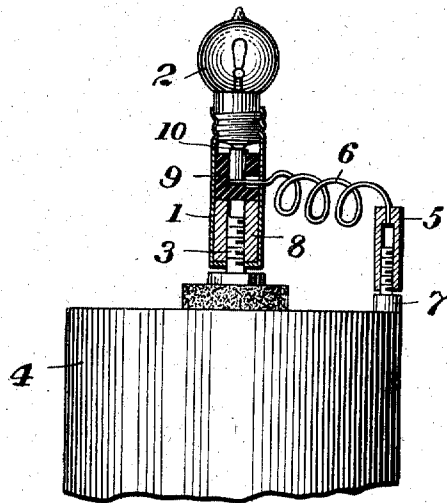


Fig. 2.

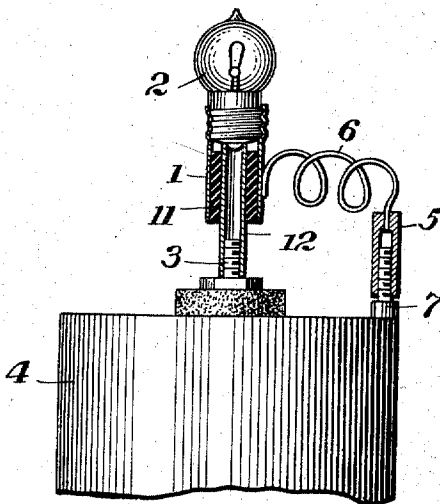
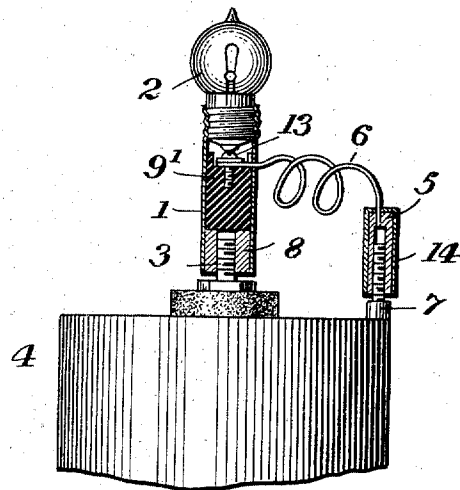


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE N. EASTMAN, OF RIVERSIDE, CALIFORNIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO EUGENE C. BROWN, OF WASHINGTON, DISTRICT OF COLUMBIA.

BATTERY LAMP-SOCKET.

985,018.

Specification of Letters Patent. Patented Feb. 21, 1911.

Application filed March 23, 1909. Serial No. 485,206.

To all whom it may concern:

Be it known that I, GEORGE N. EASTMAN, a citizen of the United States, residing at Riverside, in the county of Riverside and State of California, have invented certain new and useful Improvements in Battery Lamp-Sockets, of which the following is a specification.

My invention relates to improvements in electric lamp sockets and connectors and particularly to portable lamp sockets which are adapted to be connected to the terminals or electrodes of battery cells.

The object of my invention is to provide a portable socket for small electric incandescent lamps which can be secured directly to the binding post terminals of an ordinary battery cell and will serve as a standard for the lamp, the electrical connections being made through the standard and an auxiliary terminal secured thereto by means of a flexible connector.

In the accompanying drawings I have shown the preferred forms of my invention, in which—

Figure 1, is an elevation, partly in section of my battery lamp socket and connector showing the manner in which it is secured to the terminals of a battery cell; Figs. 2 and 3 are similar views showing modified forms of my invention.

Referring more in detail to the drawings, 1 designates the metal tubular shell of the socket which is screw-threaded at the upper end to receive the base of the lamp 2. The shell is provided with means for attachment to one of the binding-post terminals 3, of a battery cell 4, with which it makes electrical contact, an auxiliary terminal 5, connected with the socket by means of a flexible connector 6, serving to connect with the other battery terminal or post 7.

In the form shown in Fig. 1, the shell 1, is provided with a metal bushing 8, which may be screw-threaded to engage the screw-threads of the terminal post 3, of the battery, thus furnishing a rigid support for the socket and also placing the shell of the socket in electrical contact with the battery terminal. Above the bushing 8, is an insulating plug 9, which may be of fiber or other suitable material, in which is embedded the socket terminal 10, and adapted to contact with the central lamp terminal and to which is soldered or otherwise secured the flexible

connector 6, carrying the terminal connector 5, which is adapted to be secured to the other battery post 7.

In the modification shown in Fig. 2, the shell 1, is lined with a fiber or other insulating bushing 11, passing through the bore of which is a metal tube 12, which may be tapered, split or threaded at its lower end to engage the battery post 3, the upper end serving to contact with the central lamp terminal. In this form the shell 1, is soldered or otherwise secured to the flexible connector 6.

In Fig. 3, I have shown another modification in which the insulating plug or rod 9' is recessed at the top or may be surrounded by an insulating tube projecting above the head of a stud or screw 13, which serves to secure the end of the flexible connector 6, and forms the contact for the central lamp terminal. The terminal connector 5 on the outer end of the flexible connector 6, may be externally insulated by a coating of lacquer or may be surrounded by an insulating sleeve of fiber or hard rubber 14. The connector 5 may be internally tapered, split or threaded in order that a firm electrical contact may be secured with the battery post 7.

It is apparent that various other modifications may be made in the arrangement of parts without departing from the spirit of my invention, as defined in the appended claims, which provides a compact portable lamp socket and connector that may be carried in a suitable case in the pocket and can be readily connected to any of the ordinary commercial types of battery cells.

Having thus described my invention and the manner of using the same, I claim:—

1. An article of manufacture of the class set forth, comprising an outer tubular member having a lamp-base receiving means, an inner supporting tubular member having means at one extremity to secure the same to a battery terminal and forming a seat at the other extremity for the central terminal of said lamp-base for contacting purposes and an intermediate insulating bushing, a flexible conductor connected at one end to said casing and having at the other end a terminal connector, substantially as set forth.

2. In an article of the class described, an outer tubular casing having a lamp-base

receiving means at one extremity, an inner combined support and terminal member having a seat for said lamp base, and an intermediate bushing, said inner supporting member extending beyond the lower extremities of said outer tubular casing and said bushing to elevate the latter above the top surface of a battery.

3. In an article of the class described, an outer metallic tubular casing having a screw threaded extremity for the reception of a lamp-base, an insulating bushing closely fitting the interior wall of said casing and having a longitudinal bore, a hollow tubular supporting member having a portion extending through said bore and forming at one end a contact for one terminal of said lamp and at the other end a battery post attaching means, substantially as set forth.

4. In an article of the class described a tubular metal casing having a lamp-base receiving means at one extremity and forming a contact for one of the lamp terminals, an inner combined support and terminal member having means for attachment to a contact terminal an intermediate insulating bushing within said outer casing and having a contact projecting centrally therefrom to engage a lamp terminal, an auxiliary terminal connector external to said casing and a flexible conductor connecting said auxiliary connector and one of the lamp contacts.

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

GEORGE N. EASTMAN.

Witnesses:

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