L. A. WILLIAMSON.

PORTABLE BATTERY LIGHT.

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1,127,839.

Patented Feb. 9, 1915.

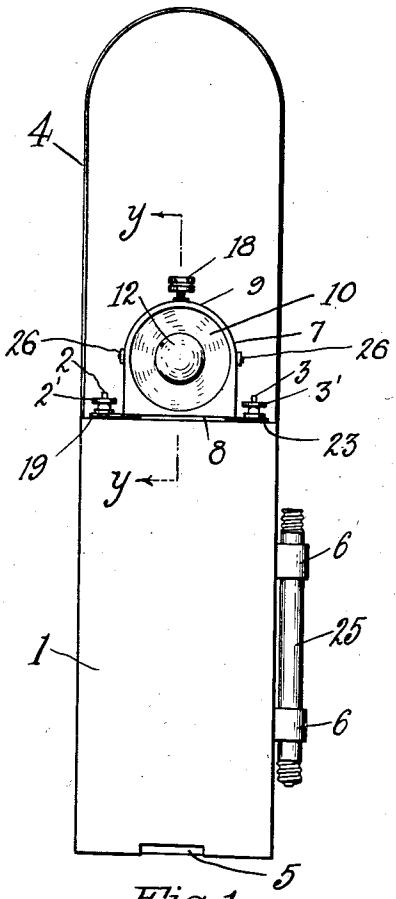


Fig. 1.

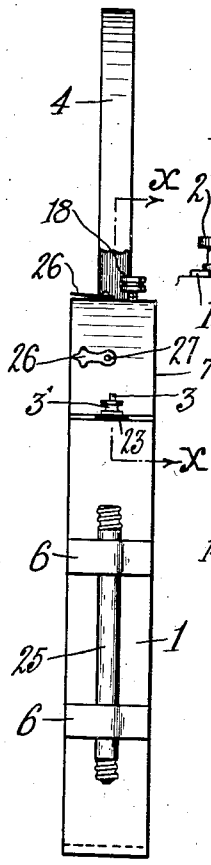


Fig. 2.

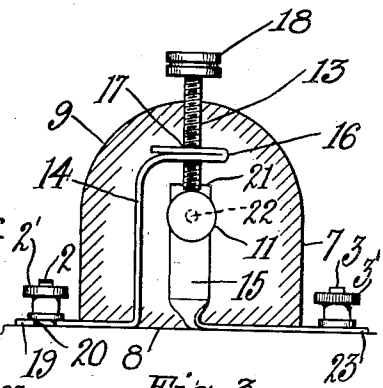


Fig. 3.

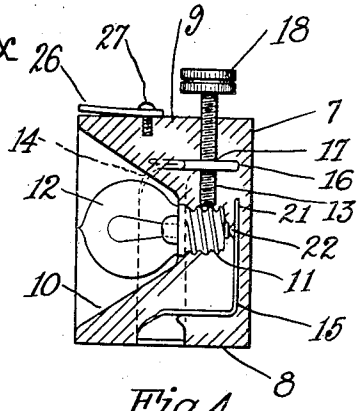


Fig. 4.

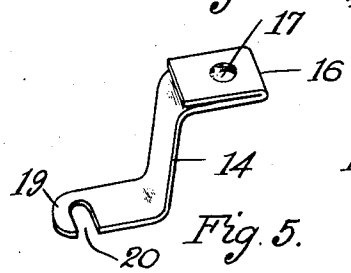


Fig. 5.

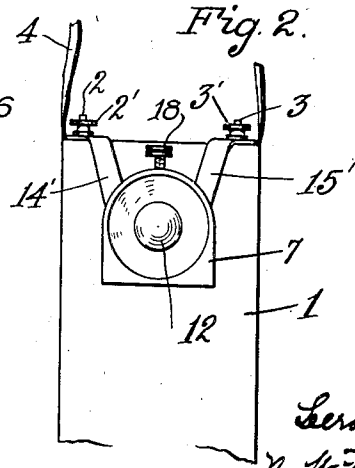


Fig. 7.

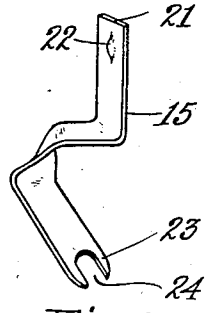


Fig. 6.

Witnesses.

C. G. Bradley

J. H. Thurston

Inventor.

Leroy A. Williamson,

By Wilmarth H. Thurston,

Attorney.

UNITED STATES PATENT OFFICE.

LEROY A. WILLIAMSON, OF NEW YORK, N. Y.

PORTABLE BATTERY-LIGHT.

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To all whom it may concern:

Be it known that I, LEROY A. WILLIAMSON, a citizen of the United States, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Portable Battery-Lights; and I do hereby declare the following specification, taken in connection with the accompanying drawings, forming a part of the same, to be a full, clear, and exact description thereof.

The invention relates to a novel form or portable electric battery light and has for its object to produce a light of this character which is extremely cheap to manufacture and efficient in operation.

To these ends the invention consists in the novel construction, arrangement and combination of parts hereinafter described and more particularly set forth in the claims.

In describing the invention in detail reference will be made to the accompanying drawings in which—

Figure 1 is a front elevation of my novel battery light. Fig. 2 is a side view of the same. Fig. 3 is a vertical sectional view on an enlarged scale on line x—x, Fig. 2. Fig. 4 is a vertical sectional view on an enlarged scale on line y—y, Fig. 1. Figs. 5 and 6 are details. Fig. 7 is a modified construction.

Referring to the drawings, 1 represents a dry battery which is provided with the customary terminals or binding posts 2 and 3 and thumb nuts 2′ and 3′, respectively. Said battery is also provided with a handle 4 upon the top, an opening 5 in the bottom and elastic loops 6 upon the side, as shown in Fig. 1 and more particularly described in a copending application filed of even date herewith.

Removably mounted upon the top of the battery 1 is an electric light receptacle which comprises a body portion 7 of any desired shape or material, such as hard rubber, fiber, or composition. Said body portion 7 is preferably molded into the shape shown in the drawings and comprises a flat base 8, a rounded top 9, and a funnel-shaped opening 10 in the front side thereof. At the apex of the funnel-shaped opening 10 is a screw-threaded opening 11 which is adapted to receive the base of an electric lamp 12, and extending from the top of the body portion 7 to said screw-threaded opening 11 is a hole or opening 13.

Molded in the body portion 7 are two flat metal contact strips 14 and 15, respectively. The contact strip 14 has its inner end 16 located above the screw-threaded opening 11 and is provided with a screw-threaded hole 17 in alinement with the hole 13, as shown in Figs. 3 and 4. Extending into the hole 13 and mounted in the screw-threaded hole 17 is a thumb contact-screw 18. The outer end 19 of said contact strip 14 extends through the base 8 and is bent outwardly so as to project beyond the side of the body portion 7, and is provided with a transverse slot 20.

The contact strip 15 has its inner end 21 provided with a raised contact point 22 arranged at the inner end of the screw-threaded opening 11, as shown in Fig. 4, and has its outer end 23 extend through the base 8 and bent outwardly in the line with, but in the opposite direction from, the outer end 19 of contact strip 14, and projects beyond the side of the body portion 7, and is provided with a longitudinal slot 24. Removably mounted in the elastic loops 6 is a candle extension 25, and mounted upon the exterior of the body portion 7 of the lamp receptacle are a series of spring-clips 26 secured at one end by screws 27 for supporting a shade.

With the above construction it will be seen that the electric light receptacle can be quickly mounted upon the battery 1 by loosening the thumb-nuts 2′ and 3′ and engaging the terminals 2 and 3 with the slots 20 and 24, respectively, in the contact-strips 14 and 15. When the terminals are thus engaged and the thumb-nuts 2′ and 3′ tightened, the light receptacle will be securely held in position upon the top of the battery. If now the lamp 12 is inserted in the screw-threaded opening 11, the customary contact point upon the end of the base will engage the contact point 22 on the contact-strip 15, as shown in Fig. 4. If now the thumb contact screw 18 is rotated so as to engage the customary metal shell upon the base of the lamp 12, as also shown in said Fig. 4, a circuit will be completed from the battery 1 through the lamp 12 and cause the same to

be lighted. By rotating the thumb contact screw in the opposite direction the lamp will be extinguished.

Fig. 7 shows a modified arrangement in which the lamp receptacle 7 is mounted upon the front of the battery 1, instead of upon the top. This is accomplished by having the contact strips 14′ and 15′ extend out through the back or top of the body portion 7 and the outer ends bent over at right angles upon the top of the battery as shown.

It will be seen that my novel form of battery is extremely simple and cheap to manufacture; that it is of a convenient shape to be carried in a coat-pocket or the pocket of an automobile; and that when the battery is exhausted the lamp receptacle can be quickly detached and attached to a new battery. It will also be seen that by means of the shade-holder clips a suitable covering can be placed over the lamp so as to adapt it for use in a dark room where photographs are developed.

What I claim as my invention and desire to secure by Letters Patent is:

1. The combination, with an electric battery provided with a pair of binding posts, of an electric light receptacle removably secured upon said binding posts and provided with a switch member.

2. The combination, with an electric battery provided with a pair of binding posts, of an electric light receptacle provided with a pair of contact strips adapted to be removably secured upon said binding posts, and an adjustable contact screw mounted in one of said contact strips.

3. The combination, with an electric battery provided with a pair of binding posts, of an electric light receptacle comprising a body portion, an electric lamp removably mounted therein, a contact strip having one end arranged to contact with said electric lamp and the other end arranged to be removably attached to one of the battery binding posts, and a second contact strip having one end provided with means adapted to engage and disengage said electric lamp and the other end arranged to be removably attached to the other of said battery binding posts.

4. The combination, with an electric battery provided with a pair of binding-posts, of an electric light receptacle comprising a body portion having a funnel-shaped opening in the front thereof, an electric lamp removably mounted in the apex of said opening, a contact strip having its inner end located within said body portion at the inner end of the funnel-shaped opening and its outer end located outside of said body portion and provided with a longitudinal slot adapted to receive one of said battery binding-posts, and a second contact strip having its inner end located within said body portion above the inner end of the funnel-shaped opening, a thumb contact screw mounted in said inner end and adapted to engage and disengage the base of the electric lamp, and a transverse slot in the outer end of said contact strip adapted to receive the other of said binding posts.

5. The combination, with an electric battery provided with a pair of binding posts, of an electric light receptacle removably secured to said binding posts and having a funnel-shaped opening, an electric lamp removably mounted in said opening, and a thumb contact screw upon the exterior of said light receptacle for lighting and extinguishing said lamp.

6. The combination, with an electric battery provided with a pair of binding posts, of an electric light receptacle removably secured to said binding posts and having a funnel-shaped opening, an electric lamp removably mounted in said opening, a series of spring clips upon the exterior of said opening, and means upon the exterior of said receptacle for operating said electric lamp.

7. The combination with an electric battery provided with a pair of binding-posts, of an electric light receptacle removably secured upon said binding-posts, an electric lamp removably mounted in said receptacle and means for lighting and extinguishing said lamp.

LEROY A. WILLIAMSON.

Witnesses:
J. De Freest,
I. Gotheef.