To all whom it may concern:

Be it known that I, ALONZO L. EDWARDS, a citizen of the United States, residing at Wheeling, Ohio county, West Virginia, have invented a new and useful Electric Flash Lamp or Lantern, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which:

Figure 1 is a view partly in side elevation and partly in vertical section of a lamp or lantern embodying my invention. Fig. 2 is a plan view of the same, with the cover removed and the handle and bail omitted. Fig. 3 is a detail sectional view showing the electrical connections, and Figs. 4, 5 and 6 are detail views of certain of the parts hereinafter referred to.

My invention has relation to electric flash lamps or lanterns and is designed to provide a simple and convenient lamp or lantern of this type which can be manufactured and sold at a relatively low cost.

A further object of the invention is to provide a lamp or lantern in which the electrical connections are entirely independent of any casing or closure, being carried directly upon the top of the battery cell, and enabling the cell and its attachment to be used, if desired, without any case.

A further object is to provide a lamp or lantern of this character in which the connections with the battery may be easily and quickly made in a simple manner.

Referring to the accompanying drawings, in which I have shown the preferred embodiment of my invention and which will now be described, the numeral 2 designates an ordinary battery cell of cylindrical form, and which may or may not be used within the inclosing casing 3. If a casing is employed, it may be provided with a bail 4 and also with a handle 5.

6 designates a removable cover for the casing.

7 is an annular plate adapted to fit over the top of the cell 2, and having preferably the depending marginal flange 8 and the bendable securing clips 9. At one side the flange 8 is extended to form a carrier 10 for a cylindrical boss 11 having therein a screw socket 12 for the stem of the lamp 13. The central opening in the plate 7 is sufficiently large to fit loosely over the carbon terminal 14 of the cell. Said plate is entirely insulated from the top of the battery, as indicated at 15. The upper surface of said plate also has one or more strips 16 of insulation secured thereto for the purpose of properly insulating the electrical connections. The plate also has a small opening therethrough to receive the other terminal post 17 of the battery.

18 designates a flexible contact piece which fits over the threaded post or screw 17 and against which a nut 19 seats to insure electrical contact between the piece 18 and the post or screw 17. Said piece 18 has the depending portion 20 which is in direct contact with one terminal of the lamp 13. The other terminal of said lamp is electrically connected through its stem with the metal of the boss 11 and thence with the plate 7.

21 is a second conducting piece secured between the layers 16 of the insulation and having a flexible slotted portion 21a which can be bent upwardly to engage over the threaded post or screw 22 of the carbon terminal 14.

23 is a contact piece in electrical contact with that portion of the piece 21 which is between the layers of insulation and which has a portion bent upwardly onto the upper surface of the upper layer of the insulation.

24 is a switch lever pivoted on the insulation at 25, and having one end portion formed with the downwardly bent lip 26 which is in contact with the top surface of the plate 7, this lip working in a slot 27 in the insulation 16. The lever is adapted to be moved into and out of electrical contact with the lip 28 of the contact piece 23.

To receive the cylindrical boss 11, the depending flange of the cover 6 is formed with the semicircularly cutaway portion 6a and the upper edge of the casing 3 has a similarly cut-away portion.

The electrical circuit of the lamp may be traced as follows: from the terminal 14 and screw 22 to conductor plate 21, contact plate 23, switch 24, plate 7, thence to and through the lamp, thence to conductor plate 18 and to the battery terminal 17. When the switch is moved to the position shown in Fig. 2 the circuit is broken.

It will be noted from the foregoing that the plate 7 not only forms a carrier for the lamp and its reflector (the latter having a
socket 30 which fits over the boss 11) but that it also carries the switch and electrical connections. This plate can be readily attached to an ordinary cell, and when so attached, forms a complete lamp or lantern independently of any casing.

The plate 7, as well as the contacts, switch and conductor plates, may all be stamped from sheet metal and assembled at a relatively small cost.

It will be readily understood that the form of the plate 7, as well as of the contacts and the conductors carried thereby and of the switch lever may be changed without departing from the spirit and scope of my invention.

I claim:

1. In an electric flash lamp or lantern, a plate member adapted to be detachably engaged with a battery cell, a lamp socket carried by said member, conducting members also carried by said plate member and insulated therefrom, and having means for engaging the respective terminals of the cell, one of said conducting members having means for contact with one terminal of the lamp, and a switch for electrically connecting and disconnecting the other of said conducting members and the plate member, substantially as described.

2. An electric flash lamp or lantern, comprising an apertured plate adapted for attachment to the terminal end of a battery cell and having a depending portion, a laterally extending lamp carrier on said depending portion, a conducting member insulated from the plate member and engaging one terminal of the lamp and also electrically connected with one terminal of the battery, and a second conducting member carried by and insulated from the plate member and having an electrical connection with the other terminal of the battery, together with a switch device for electrically connecting and disconnecting the last named conducting member and the said plate member, substantially as described.

3. An electric flash lamp or lantern, comprising a battery cell, a conducting member having means for engaging the terminal end of the cell and insulated therefrom, said conducting member having a laterally projecting lamp carrier, and conductors mounted on and insulated from the conducting member and engaging the respective cell terminals, one of the conductors being electrically connected with one terminal of the lamp, and a switch device for electrically connecting and disconnecting the other conductor with the said conducting member, substantially as described.

4. An electric flash lamp or lantern, comprising a battery cell, a conducting member having means for engaging the terminal end of the cell and insulated therefrom, said conducting member having a laterally projecting lamp carrier, and conductors mounted on and insulated from the conducting member and engaging the respective cell terminals, one of the conductors being electrically connected with one terminal of the lamp, and a switch device for electrically connecting and disconnecting the other conductor with the said conducting member, together with an inclosing casing for said cell and parts, substantially as described.

In testimony whereof, I have hereunto set my hand.

ALONZO L. EDWARDS.

Witnesses:

CHAS. L. WOEGER,
D. J. MORRIS.