

No. 636,492.

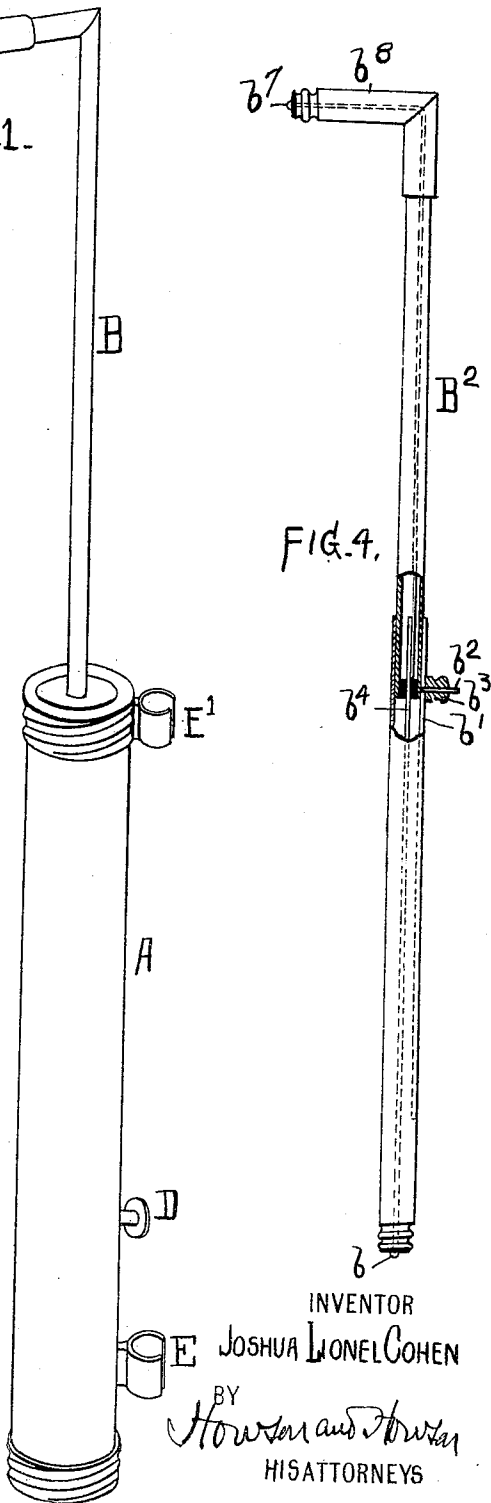
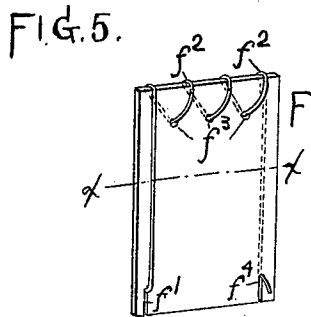
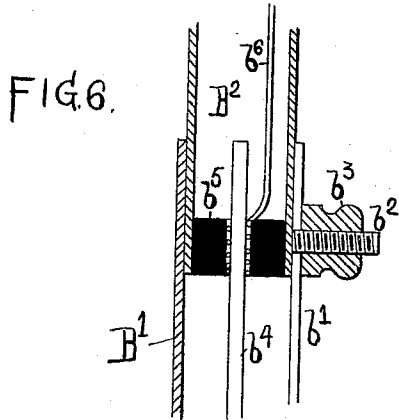
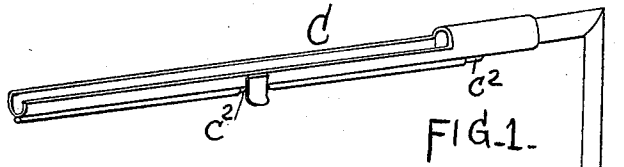
Patented Nov. 7, 1899.

J. L. COHEN.
FLASH LAMP.

(Application filed June 16, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:
P. W. Wright
S. C. Connor

INVENTOR
 JOSHUA LIONEL COHEN
 BY
Howson and Howson
 HIS ATTORNEYS

No. 636,492.

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FLASH LAMP.

(Application filed June 18, 1899.)

(No Model.)

2 Sheets—Sheet 2.

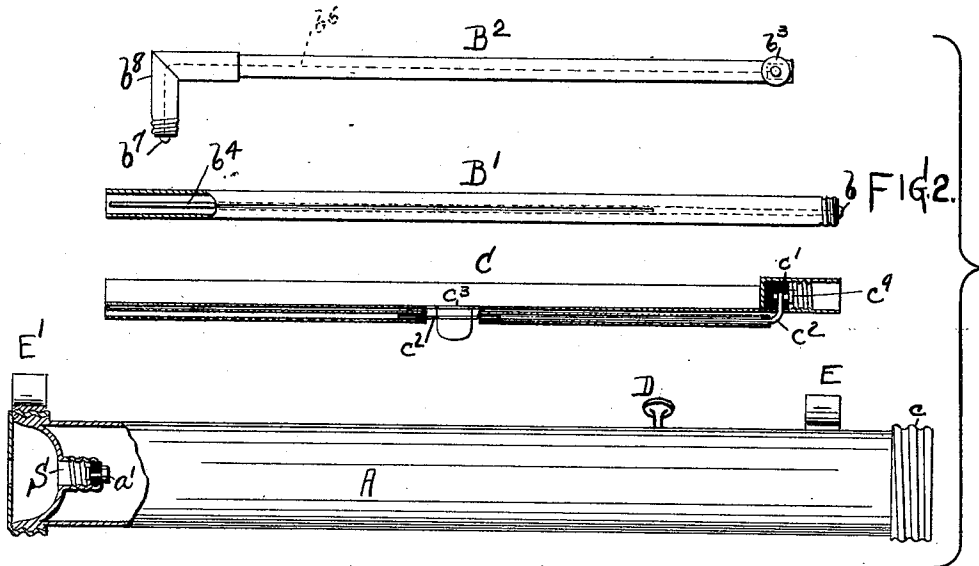
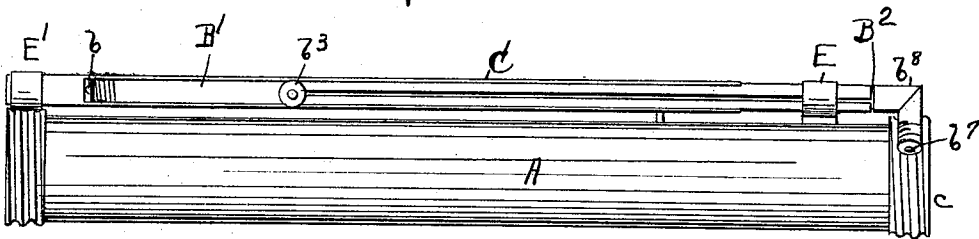


FIG. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSHUA LIONEL COHEN, OF NEW YORK, N. Y.

FLASH-LAMP.

SPECIFICATION forming part of Letters Patent No. 636,492, dated November 7, 1899.

Application filed June 16, 1899. Serial No. 720,864. (No model.)

To all whom it may concern:

Be known that I, JOSHUA LIONEL COHEN, a citizen of the United States of America, residing in New York city, county of New York, State of New York, have invented an Improved Flash-Light Apparatus, of which the following is a specification.

The object of my invention is to construct a flash-light apparatus which can be held in the hand in use, can be conveniently manipulated, and can be packed up into a small compass when not in use.

In the accompanying drawings, Figure 1 is a perspective view of one form of my apparatus when adjusted for use. Fig. 2 is a view, drawn to a larger scale, of a modified form of my appliance, the parts being separated and shown partly in section. Fig. 3 is a side view of the same, showing the parts packed together. Fig. 4 is a view of one of the parts. Fig. 5 is an enlarged perspective view of a form of fuse which may be used. Fig. 6 is an enlarged sectional view of a joint in the telescopic post.

My appliance comprises a tubular casing A, to be held in the hand, an upright detachable post B, and a horizontal trough part C to receive the flash-light powder.

The casing A is adapted to contain cells of dry battery, which can be introduced into or removed from the lower end through an opening closed by the sheet-metal screw-cap *c*. The walls of the casing may be of metal and covered with leather or imitation leather or any other suitable material. At the upper end one pole of the uppermost cell will be in contact with the insulated pin *a'*, Fig. 2, while opposite the opposing pole of the lowermost cell lies a push-button contact D, on pressing which the circuit can be closed at that point to the metal casing.

The upper end of the casing is made in the form of a socket S, preferably a screw-socket corresponding in general character with the Edison type of socket for incandescent lamps.

The upright post B is threaded at its lower end to screw into this socket S, an insulated pin *b* on the end of the post making contact with the insulated pin *a'* in the socket, while the metal of the tube makes contact with the threaded wall of the casing-socket. This post B may be non-extensible, as shown in Fig. 1;

but I prefer to have it extensible, as illustrated in Figs. 2 and 4, by making it in two parts B' and B², one sliding or telescoping within the other. The outer part B' has a longitudinal slot *b'*, in which runs a threaded pin *b²* on the internal part B², and a nut *b³* on this threaded pin can be used to lock the two parts B' and B² in any position to which they may be adjusted. The part B' has a bare wire rod *b⁴*, extending from the insulated part *b* to the opposite end, and this rod runs through an opening in an insulating-plug *b⁵*, Fig. 6. This opening has within it the coiled bare end of a wire *b⁶*, connected to an insulated pin *b⁷* in the end of the elbow *b⁸* of the part B², Fig. 4. This elbow end is threaded to screw into a corresponding socket in the end of the trough C, and there the pin *b⁷* makes contact with a pin *c⁹* in an insulating-plug *c'*. This pin *c⁹* is in turn connected to an insulated wire *c²*, which passes along the under side of the trough to where a slot *c³* is left for the insertion of the fuse. There the wire *c²* is bared, so that the wire of an inserted fuse-plug can complete the circuit from this wire *c²* to the metal casing of the trough C.

The fuse-plug may be of any convenient character; but for the sake of illustration I have shown in Fig. 5 a form which may be used. It consists of an insulating-body F, as of asbestos paper-board, with a fusible wire *f* running from a retaining-notch *f¹* to turns made at one edge of the paper by threading through openings *f³*, and the other end of the wire passing down on the opposite side of the paper and retained in a notch *f⁴*. The dotted line *x x* indicates the line of contact or grip between the bare portion of the wire *c²* and the opposed part of the trough-casing.

When the parts are fitted together for use as described, and as illustrated generally in Fig. 1, the casing A can be held in the hand, and the trough C being loaded with flash-light powder and a fusible plug being in place, a pressure of the thumb upon the button D will serve to close the electric circuit, so as to cause the heating of the wire of the plug and the ignition of the powder.

When the device is put out of use, the trough part C is unscrewed from the top of the post B. The latter, if telescopic, is shut

up and unscrewed from the top of the casing
 A. The trough part is then inserted in one
 of the clips E on the exterior of the casing
 and the post B inserted in the other clip E',
 5 the post being telescoped into the trough, as
 shown in Fig. 3. The trough C is made of
 circular section and its upper open side less
 than a semicircle for the twofold purpose of
 preventing loss of flash-powder by drafts of
 10 air when the appliance is in use and of re-
 taining the post B from escaping laterally
 from the trough C when the parts are tele-
 scoped, as shown in Fig. 3.

I claim as my invention—

15 1. A flash-light apparatus comprising a cas-
 ing to contain the battery, a detachable post
 supported by and having an electrical socket
 connection with the casing and a trough detach-
 ably supported on and having an elec-

trical socket connection with the said post, 20
 all substantially as described.

2. A flash-light apparatus comprising a cas-
 ing to contain the battery and having clips
 with a detachable post and trough to fit in the
 clips, substantially as described. 25

3. A flash-light apparatus comprising a cas-
 ing to contain the battery, a detachable post
 supported by the casing and a trough detach-
 ably supported by the said post, the latter tel-
 30 escoping into the trough when the parts are
 packed up, substantially as described.

In testimony whereof I have signed my
 name to this specification in the presence of
 two subscribing witnesses.

JOSHUA LIONEL COHEN.

Witnesses:

GEO. E. MINER,
 F. WARREN WRIGHT.