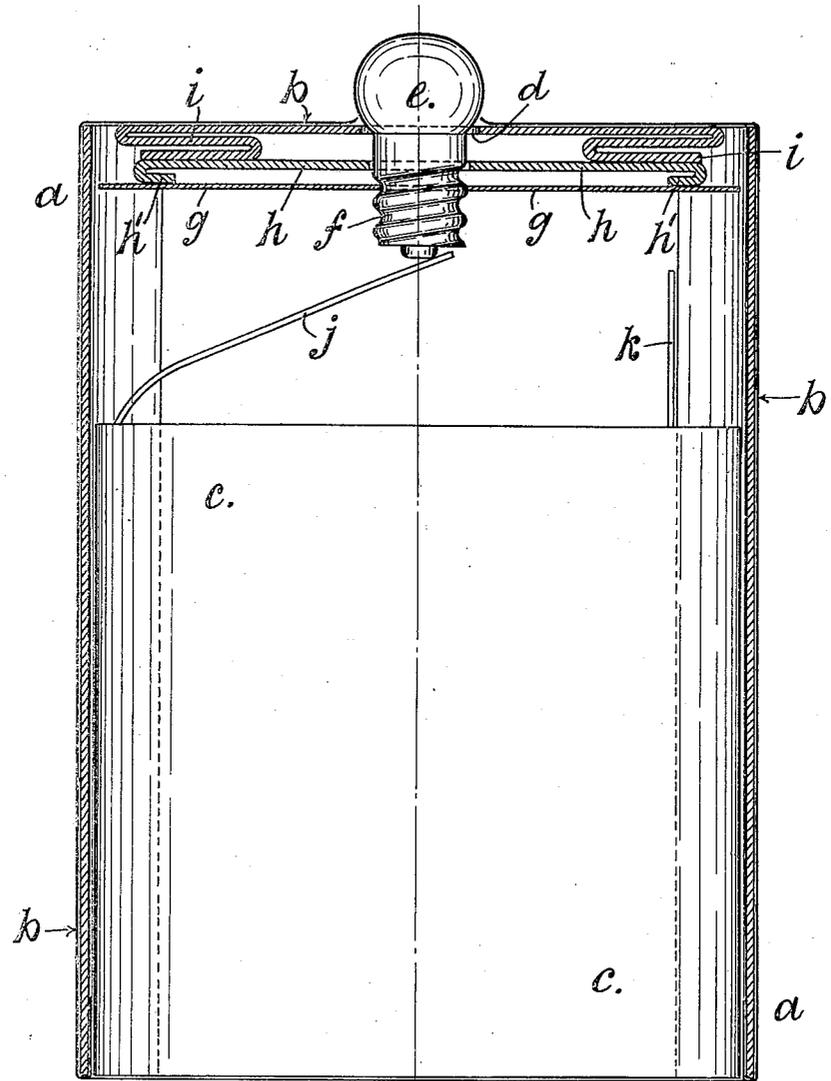


1,306,740.

H. BIEBER.  
FLASH LIGHT.  
APPLICATION FILED AUG. 9, 1917.

Patented June 17, 1919.  
2 SHEETS—SHEET 1.

FIG. 1.



Witness.  
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2 SHEETS—SHEET 2.

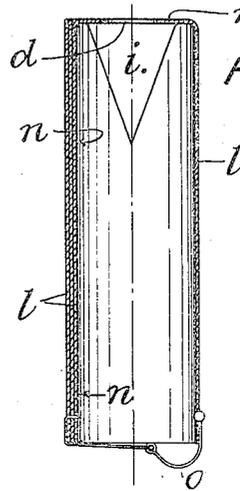
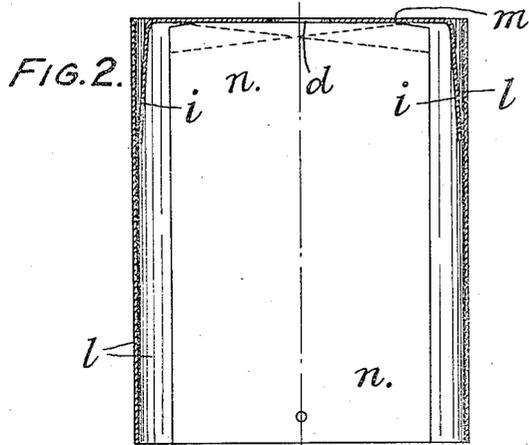


FIG. 4.

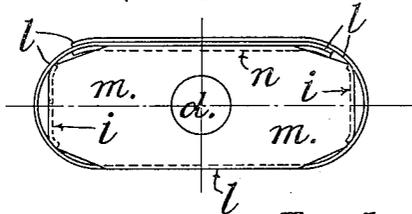
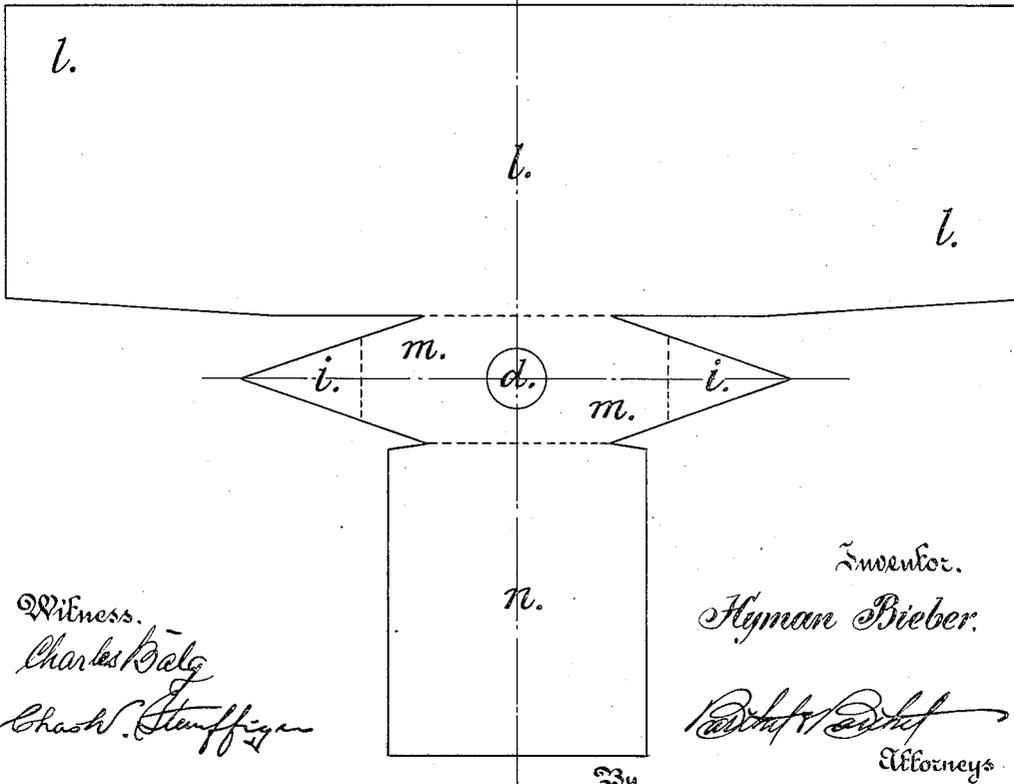


FIG. 5.



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# UNITED STATES PATENT OFFICE.

HYMAN BIEBER, OF LIVERPOOL, ENGLAND.

## FLASH-LIGHT.

1,306,740.

Specification of Letters Patent. Patented June 17, 1919.

Application filed August 9, 1917. Serial No. 185,252.

To all whom it may concern:

Be it known that I, HYMAN BIEBER, a subject of the King of England, residing at 54 Islington, Liverpool, in the county of Lancaster, England, have invented certain new and useful Improvements in or Relating to Flash-Lights, of which the following is a specification.

This invention relates to electric flash lights, and has for its object to provide a lamp construction which shall be simple, cheap and efficient, and wherein a dry cell of common type may be employed.

I will describe my invention with the aid of the accompanying sheets of explanatory drawings, in which:—

Figure 1 represents the lamp in longitudinal section.

Figs. 2 to 5 illustrate a preferred construction of sheath or casing hereinafter described.

Referring first to Fig. 1, *a* generally designates a one-piece sheath or casing having open ends and which is constructed of stiff paper or cardboard on which is pasted or suitably secured a paper covering —*b*— that closes the outer end of the sheath or casing, except for a small aperture —*d*—. The paper covering has its inner end open and it is preferable to inturn the edges of said paper covering and secure the same to the inner wall of the sheath or casing.

Projecting through an aperture *d* in the casing top is the bulb *e* of an electric filament lamp, said lamp having a base or the usual screw socket *f* held by a sheet metal contact piece *g*, say of tin plate.

On said metal plate *g* is disposed a piece of stiff paper or cardboard *h h<sup>1</sup>* the sides *h<sup>1</sup>* whereof are inturned; and extending from the casing top are tongue pieces *i* which are doubled as shown. Said piece of paper or cardboard *h h<sup>1</sup>* and side tongues *i* constitute distance pieces or spacing means to control the amount of projection of the lamp bulb *e* through aperture *d* of the casing top.

*j, k*, indicate the cell terminals, terminal *j* being a resilient member, as a spring plate or strip which maintains continuous contact with the insulated lamp terminal or socket,

and terminal *k* is a short vertical arm extending toward the metallic contact piece *g*.

When the cell *c* is shifted within the casing by applying pressure to the lower end of the cell, the terminal *k* contacts with the contact piece *g* and closes the lamp circuit, causing the illumination of bulb *e*. On said cell being released it immediately assumes normal position relative to the casing under the influence of spring terminal *j*, and the circuit is again broken; thus the bulb is illumined only during the period when said casing is wilfully pressed down or the cell pushed in said casing.

Referring now to the construction of sheath or casing illustrated in Figs. 2 to 5, wherein Figs. 2 and 3 are sections taken at right angles to each other, Fig. 4 a plan, and Fig. 5 a view of the casing blank; said casing embodies a portion *l* adapted to form front, sides, and rear overlapping members, a portion *m* adapted to form the casing top and the distance pieces *i* hereinbefore referred to, and an inner depending member *n* designed to stiffen the casing structure.

*o*, Fig. 3, indicates a spring clip adapted to normally prevent the cell from sliding out of the casing.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. An electric flash light comprising a casing, an electric filament lamp, the bulb whereof projects through an aperture in said casing top, a metal plate secured in contact with said lamp, means controlling the amount of projection of said lamp bulb through said casing aperture, and a dry cell provided with a spring terminal in continuous contact with said lamp and a terminal adapted to make contact with said metal plate when said cell is moved within the casing.

2. An electric flash light comprising a one-piece casing constructed of stiff paper, an electric filament lamp the bulb whereof projects through an aperture in said casing top, a metal plate secured in contact with the metallic socket of said lamp, means disposed between said metal plate and casing top con-

trolling the amount of projection of said lamp bulb through said casing aperture, and a dry cell provided with a terminal in continuous contact with said lamp, and a terminal adapted to make contact with said metal plate, when said cell is moved within the casing.

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

HYMAN BIEBER.

Witnesses:

JOHN HENDLEY WALKER,  
I. F. VIOLA WALKER.