H. M. KORETZKY.

FLASH LIGHT BATTERY CONTAINER.

APPLICATION FILED AUG. 12, 1915.

1,176,467. Patented Mar. 21, 1916.

Fig. 1,

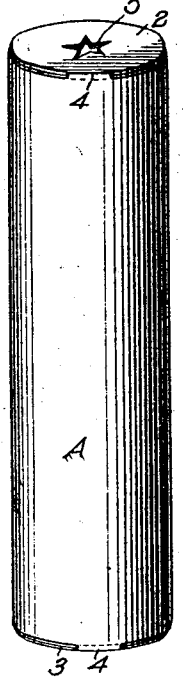


Fig. 2,

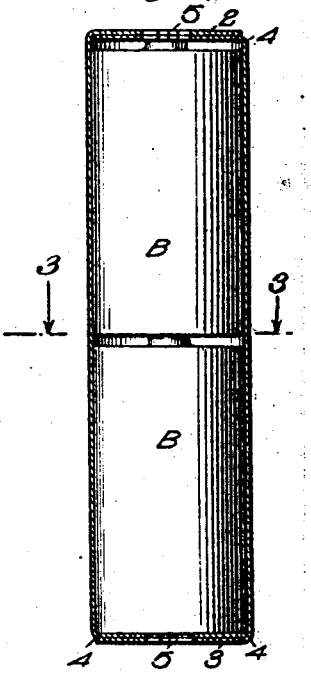


Fig. 3,

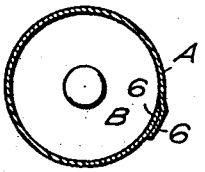
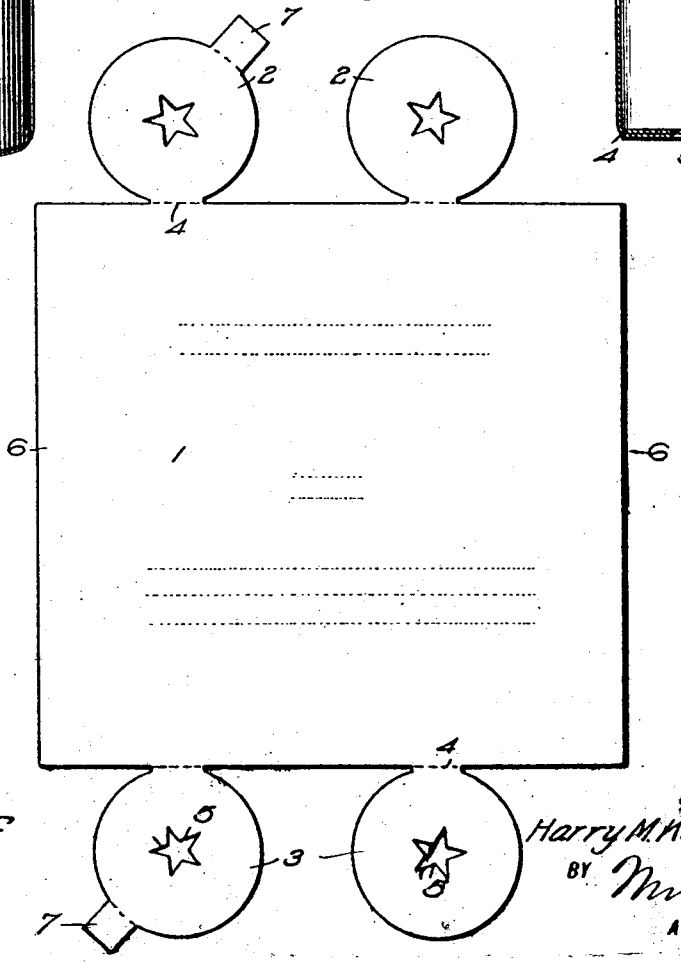


Fig. 5,



Fig. 4



WITNESSES

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FLASH-LIGHT-BATTERY CONTAINER.

1,176,467. Specification of Letters Patent. Patented Mar. 21, 1916.

Application filed August 12, 1915. Serial No. 45,157.

To all whom it may concern:

Be it known that I, HARRY M. KORETZKY, a citizen of the United States, and a resident of the city of New York, borough of the Bronx, in the county of the Bronx and State of New York, have invented a new and Improved Flash-Light-Battery Container, of which the following is a full, clear, and exact description.

This invention relates to flashlight batteries of that type in which a plurality of cells are arranged end to end so as to fit in a tubular or cylindrical flashlight casing, and the invention has to deal more particularly with the container for the cells.

Containers as heretofore constructed comprise a tube of cardboard of such diameter as to receive the cells, and in one end of this tube is inserted a bottom which is held in place by a label pasted on the outside of the tube and bottom. Obviously this method of making the cell containers is expensive and requires hand operation in putting the container together, and furthermore, since the container is of tubular form the containers when stored away empty take up considerable space.

The general object of the present invention is to provide an improved container which is of comparatively simple and inexpensive construction, reliable and efficient in use, and so designed that it can be constructed with minimum material and labor.

A more specific object of the invention is the provision of a tubular container made from a single-piece blank with overlapping flaps at its ends forming closures, such flaps being provided with openings through which the battery can be tested when purchased, but which are intended to be torn off when the battery is to be placed in a flashlight casing. By making the container of tubular form it can be doubled flat longitudinally while the end flaps are left free, so that the folded blanks take up very little space before they are filled.

With such objects in view, and others which will appear as the description proceeds, the invention comprises various novel features of construction and arrangement of parts which will be set forth with particularity in the following description and claim appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention and wherein similar characters of reference indicate corresponding parts in all the views, Figure 1 is a perspective view of a sealed battery; Fig. 2 is a longitudinal section of the container with the cells therein; Fig. 3 is a sectional view on the line 3—3, Fig. 2; Fig. 4 is a plan view of the blank from which the container is made; and Fig. 5 is a transverse section of a folded empty blank.

Referring to the drawing, A designates the container in which the cells B are held, the cells being of the usual form and disposed in end to end relation with the positive element of one cell engaging the negative element of the other cell. The container A is made from a blank shaped substantially as shown in Fig. 4, this blank consisting of a rectangular body 1 with a pair of flaps 2 and 3 at the upper and lower edges, the side edges being adapted to overlap and be pasted together when the blank is formed into the desired shape. The flaps are integrally connected with the blank and are pasted together in such a manner as to form the ends of the container. The points of connection of the flaps with the body of the blank are preferably at diametrically opposite points 4, and the blank may be scored at these points so as to enable the flaps to be torn off when the battery is to be used.

In order to permit the battery to be tested the flaps 2 and 3 have registering openings 5 so that the terminals of a testing instrument can be inserted into the container to engage the positive element of one cell and the negative element of the other cell. After the blank is cut out, as shown in Fig. 4, the body is rolled so that the side edges 6 can be overlapped and glued together. With the end flaps projecting longitudinally from the tube thus formed, the tube is flattened out in the condition shown in Fig. 5 until it is desired to charge the container with the cells. When this is to be done the tubular container is restored to tubular form and the cells inserted, after which the flaps are turned inwardly over each other and glued together. It will thus be seen that the container is made of a single piece of material and serves as a complete insulator for the cells, and the usual printed matter contained on a label is printed directly on the outer surface of the blank.

If desired locking tabs 7 may be provided on the outermost flaps 2 and 3, such tabs to be tucked in between the body of the con-

tainer and the cells so as to hold the container closed without the necessity of pasting the flaps down, and the tabs 7 if desired may be supplied with paste so as to adhere to the body of the container. When the container is to be used the end flaps are torn off so as to expose the bottom of the lowermost cell and the top of the uppermost cell for the purpose of contacting with the appropriate parts of the flashlight casing.

From the foregoing description taken in connection with the accompanying drawing, the advantages of the construction and method of operation will be readily understood by those skilled in the art to which the invention appertains, and while I have described the principle of operation together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made when desired as fall within the scope of the appended claim.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

A container for the cells of a battery comprising a tube of flexible material adapted to be collapsed flat when empty and having open ends each provided with a pair of oppositely disposed flaps adapted to overlap to form closures for the ends of the tube, each flap having an aperture whereby openings are formed in the ends of the container for access to the cells for testing.

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

HARRY M. KORETZKY.

Witnesses:

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