No. 804,163. PATENTED NOV. 7, 1905.

C. M. OLIN.

LIGHT BOX.

APPLICATION FILED AUG. 30, 1904.

Fig. 1.

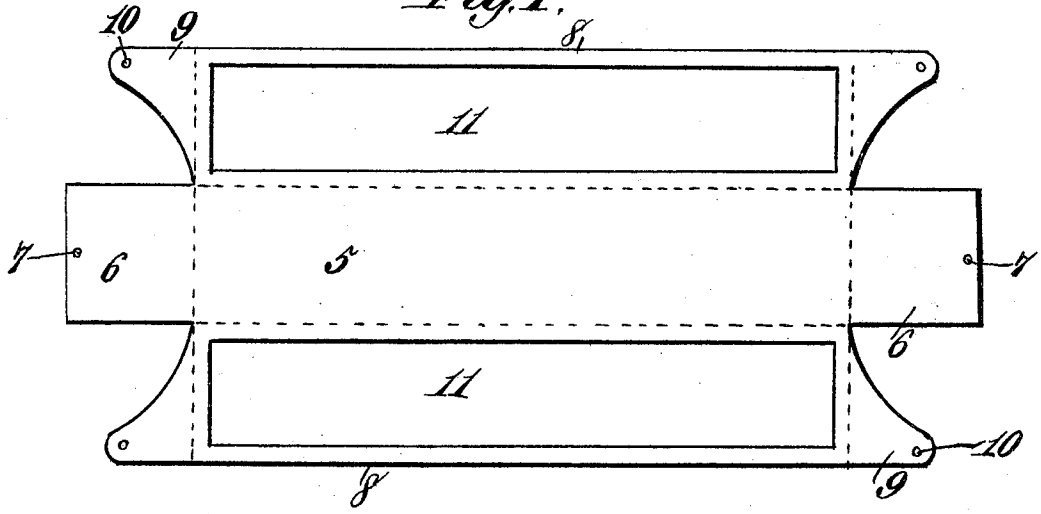


Fig. 2.

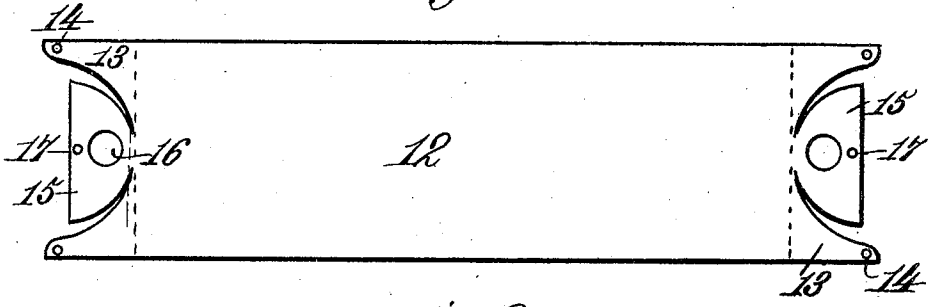
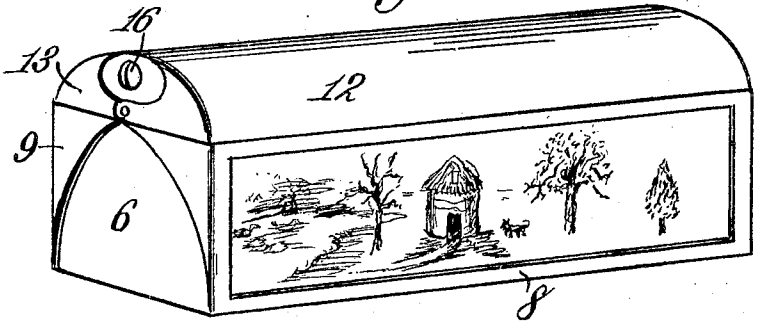


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

CHAUNCEY M. OLIN, OF VINCENNES, INDIANA.

LIGHT-BOX.

No. 804,163. Specification of Letters Patent. Patented Nov. 7, 1905.

Application filed August 30, 1904. Serial No. 222,757.

To all whom it may concern:

Be it known that I, CHAUNCEY M. OLIN, a citizen of the United States, residing at Vincennes, in the county of Knox and State of Indiana, have invented new and useful Improvements in Light-Boxes, of which the following is a specification.

This invention relates to light-boxes; and the object of the invention is to provide an article of this character which is simple in construction and which can be transported in large quantities, while occupying but a relatively small space.

The paramount and leading idea in my invention is to provide a folding light-box to be made, shipped, and sold in the flat.

During summer nights children find considerable amusement in pulling about light-boxes with different kinds of ornamentation showing through openings therefor in the boxes. It is an exceedingly difficult matter ordinarily to make a box of the kind set forth, owing to the skill required in producing an attractive one. Light-boxes heretofore designed have been so complex that their construction has been laborious and expensive. I provide a light-box made from blanks of a peculiar nature, as will hereinafter appear, the blanks being held in assembled relation to form a desired configuration by a single fastening device at each end, whereby simplicity is assured. These blanks can be shipped in bulk in a small space, and with them the necessary accessories to enable the blanks to be set up for use in a rapid and easy manner. The blanks can be sold at a low figure, which is an important desideratum, as toys of the kind set forth are short-lived.

Referring to the drawings, wherein is represented in full one convenient adaptation embodying my invention, Figure 1 is a plan view of a blank from which the body of the box is to be formed. Fig. 2 is a similar view of the top of the box. Fig. 3 is a perspective view of the box in its finished condition.

Like characters refer to like parts throughout the several views.

The box may be of any desirable shape. It is represented in Fig. 3 as having a rectangular body provided with an arched top, the body being made from one blank, (see Fig. 1,) while the top is made from another blank. (See Fig. 2.) These blanks may be made from any desirable material, such as strawboard, paper-board, or any other substance that can be readily and easily folded. The body-blank shown in Fig. 1, and from which the bottom, sides, and ends of the box are to be formed, includes a central portion, as 5, which is to constitute the bottom of the box. From the opposite ends of the central or bottom portion 5 of the blank the end wings, each denoted by 6, extend. Each end wing has a perforation, as 7, adapted to receive a fastening device, which may be of any desirable character, such as an ordinary paper-fastener. The perforations 7 are adapted to register or coincide with other perforations formed in flaps on the side wings 8 of the body-blank. To facilitate the folding up of the end wings 6 and the side wings 8 into a vertical position, the body-blank may be scored or otherwise formed along intersecting lines, as shown clearly in Fig. 1. The side wings 8 have at opposite ends flaps 9, arranged, when the body-blank is shaped to the desired form, to extend toward each other at opposite ends of the body and at right angles to the side wings 8 when the blank is shaped to the finished or desired form. The scores, which extend across the blank to render easy the folding up of the end wings 6, are continued outward across the wings 8, so that the flaps 9 can be readily bent at right angles to said wings. The flaps 9 are substantially of triangular form and each has a perforation, as 10. The perforations 7 and 10 at each end of the body-blank are adapted to register or coincide to receive a common fastening device. The side wings 8 have slots or openings, as 11, which may be of any desirable shape and which are permanently covered by sheets of transparent or translucent material of some suitable kind, upon which may be depicted scenes or illustrations of any desirable kind, in color or not, to suit individual tastes or fancies. When the body of the box contains a candle, the scenes will appear in a very beautiful manner, if in color, from the outside of the box.

The top blank consists of a central portion 12, from the opposite ends of which and at opposite sides of a longitudinal median line of the blank the approximately triangular flaps 13 extend, each flap having a perforation, as 14. The flaps or tongues 13 depend from the top when the same is connected with the body, and so that said flaps or tongues can be readily bent down the blank shown in Fig. 2 may be scored, although such scoring is not essential, for the same result may be otherwise attained. The top of the box when associated with the body thereof is transversely

arched, and the end wings, of substantially segmental form, are arranged to close the space at the oposite ends of the top. The end wings 15 are generally made integral with the central portion 12 of the top blank, and for this purpose may be connected thereto by readily-flexible necks.

In the segmental wings 15 I form openings, as 16, for the products of combustion issuing from a candle or other illuminant within the box. I also form in the said wings 15 and near the outer or what in the finished box are the lower edges thereof the perforations 17, which in the finished box are adapted to register with the perforations 14, by virtue of which I employ simply a single fastening device at each end of the top to hold the wings and flaps thereof in proper positions.

It will be apparent that the two blanks hereinbefore described can be readily and inexpensively formed and they can be shipped flat in large quantities and in a small space to be set up by the users. With the flattened blanks may be also shipped candles or other accessories to form part of the finished article.

To make the article from the blanks, the wings 6 and 8 of the body-blank are set up at right angles to the central or bottom portion 5, and the end flaps 9 of the side wings are bent inward to lie against the end wings 6. This will bring the several respective perforations 7 and 10 into register to receive common fastening devices. The top blank is then transversely arched the requisite extent and the wings 15 bent downward and the flaps 13 inward to bring the several perforations 14 and 17 to receive common fastening devices.

It will be apparent that the body and top of the box are separate and that the end portions thereof are each held assembled by a single fastening device which may be a well-known paper-fastener. When the parts are finished or formed into the proper shape, the top is simply placed upon the body of the box. Said top can therefore be readily lifted off at any time in order to renew a candle. The openings 16 in addition to serving as a means for carrying off the products of combustion also provide for the entrance of fingers to aid in shaping up the ends of the tops.

A pulling-cord may be connected with the finished article in any desirable way in order to drag the same about.

Having thus described the invention, what I claim is—

A folding light-box composed of a body having side and end wings at an angle to the bottom of said body, the side wings having flaps at their ends to overlap the end wings, and each flap and wing having a perforation combined with a top having end flaps and end wings to fold downward and overlap each other, the said last-mentioned flaps and wings each having a single perforation, and a single fastening device at each end of the box adapted to pass through the registering perforations in said end flaps, and wings to hold the two parts of the box assembled.

In testimony whereof I have hereunto set my hand in presence of the subscribing witnesses.

CHAUNCEY M. OLIN.

Witnesses:
FRED H. CORRELL,
EMILY J. KEITH,
J. N. JESSUP.