

Aug. 23, 1932.

B. G. WARNER

1,873,085

PAPER BOX

Filed Jan. 24, 1931

2 Sheets-Sheet 1

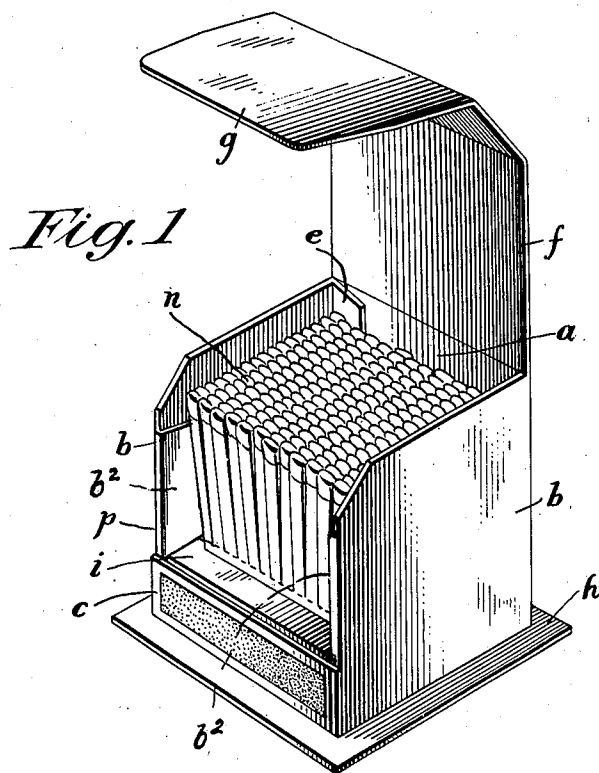


Fig. 10

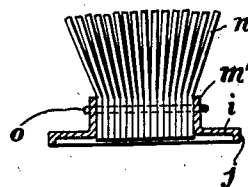


Fig. 2

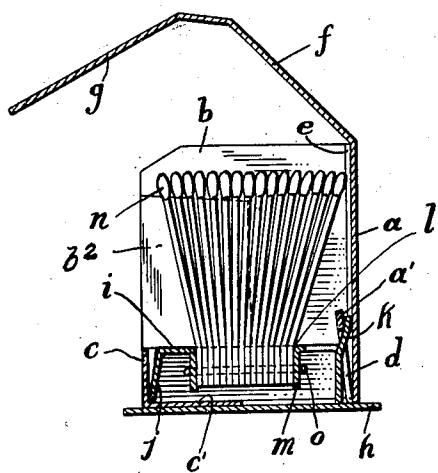


Fig. 3

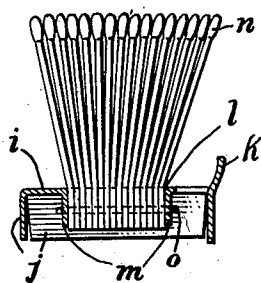
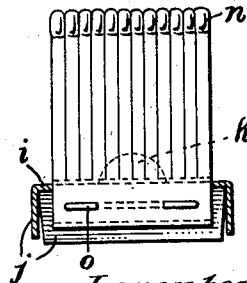


Fig. 4



Inventor:
Bradford G. Warner

By Chambulain & Newman
Attorneys.

Aug. 23, 1932.

B. G. WARNER

1,873,085

PAPER BOX

Filed Jan. 24, 1931

2 Sheets-Sheet 2

Fig. 7

Fig. 9

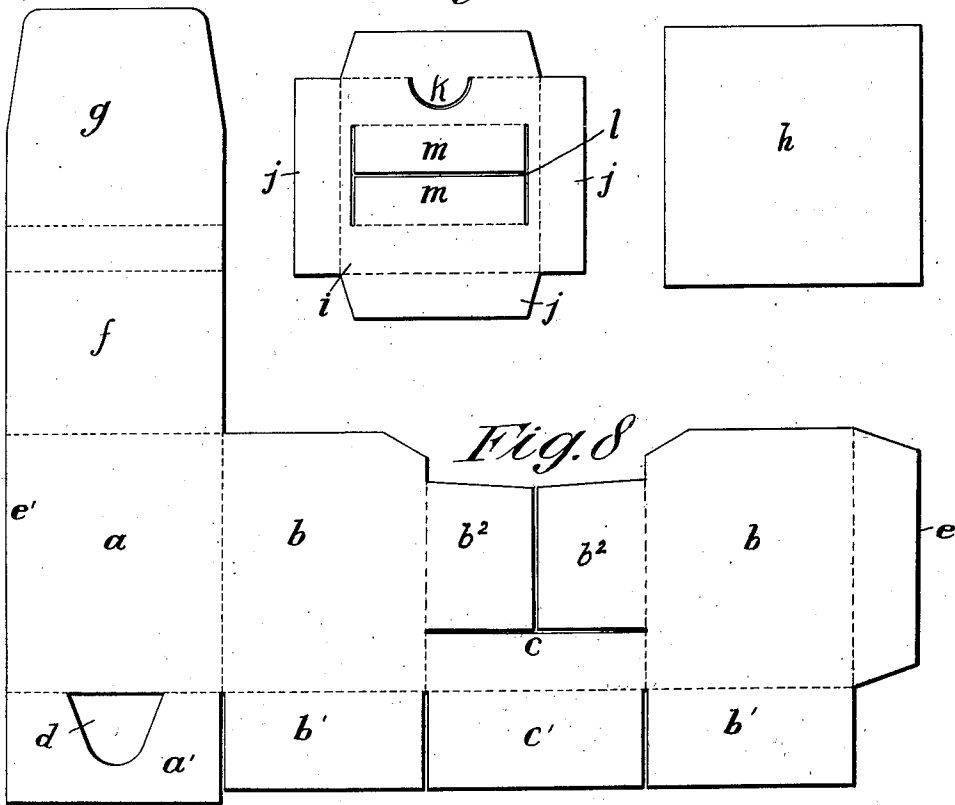


Fig. 5

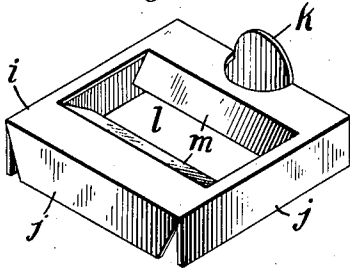
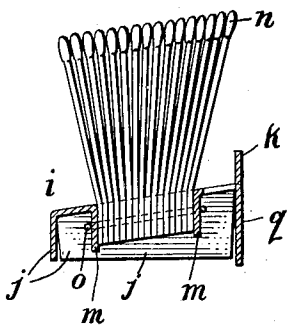


Fig. 6



Inventor:
Bradford G. Warner

By Chamberlain & Newman
Attorneys

UNITED STATES PATENT OFFICE

BRADFORD G. WARNER, OF FAIRFIELD, CONNECTICUT, ASSIGNOR TO THE WARNER BROTHERS COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT

PAPER BOX

Application filed January 24, 1931. Serial No. 510,934.

This invention relates to new and useful improvements in boxes and has special reference to both set-up and foldable paper boxes that can be effectively used for display purposes as well as a container during shipment and storage.

The invention more particularly relates to that class of display boxes wherein the closure member of the box may be formed integral with the body and creased transversely of the top portion of the box in a way to be folded down over the top and front and its tongue detachably secured to the front portion.

15 An important feature of the invention is the provision of a base member having an opening therethrough with opposed flanges on opposite edges of the base to which the articles to be displayed, as for instance cards of matches, may be secured in a vertical position as by means of stitching, as shown, or possibly by gluing, and to provide such a base with depending flanges on its edge portions which will serve as legs for the support of the base in spaced relation to the bottom of the box.

A further object of the invention is to provide means for detachably or otherwise securing this base in the box whereby the base will not readily pull out when the matches are detached from time to time.

Another feature of the box is that of the attachment to its bottom portion of a separately formed bottom member which may be attached as by gluing and will serve to reinforce the bottom, strengthen the structure and provide an extended flange around the bottom portion in a manner to form a better support or footing for the box.

The invention further relates to a box, the shape and size of which may be varied to better accommodate the particular class of merchandise which it is intended to house. The box herein illustrated is especially designed for holding cards of paper matches, but it will be obvious that it can readily be used for other articles by slightly modifying its construction.

With these and other objects in view, the invention resides and consists in the construc-

tion and novel combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claims may be resorted to without departure from the spirit, or sacrificing any of the advantages of the invention.

Similar characters of reference denote like or corresponding parts throughout the several figures of the accompanying drawings forming a part of this specification and upon which

Fig. 1 shows a perspective view of my improved display box in an open position, filled with cards of paper matches;

Fig. 2 is a vertical sectional elevational view of the paper box and matches contained therein shown in Fig. 1;

Fig. 3 is a detached vertical sectional view of the removable base member of the box and matches shown in Fig. 2;

Fig. 4 shows a sectional elevation of the base and assembled matches as shown in Fig. 3;

Fig. 5 shows a modified form of base wherein the matches are arranged on an incline, better to permit them to be torn away first from the lower front side;

Fig. 6 shows a perspective view of the base member;

Fig. 7 shows a paper blank from which the base is formed;

Fig. 8 shows a blank from which the body of the box is formed;

Fig. 9 shows the blank which forms the extended bottom member of the box; and

Fig. 10 shows a modified form of base wherein the opposed flanges adjacent the opening for supporting the matches are disposed upward instead of down.

My improved box is formed of three specially cut and creased blanks of suitable material, such as cardboard, that are glued and assembled to form a rigid box, having a back, sides and front and a cover or closure member that is formed as a part of the extension of the back, and creased crosswise to fold so

that it may be closed down upon the top and front and its tongue tucked inside of the narrow front portion c' . When the box is in open position as shown in Fig. 1, the top and front side portions of its contents are exposed to view.

The blank shown in Fig. 8, from which the body of the box is formed, is cut to form a blank of proper shape and creased so that the several portions thereof may be folded with respect to each other. As designed, this blank includes a back portion a , sides $b-b$, front c , foldable flaps b^2-b^2 , and depending bottom portions $b'b'$ and c' . The bottom extension a' on the back is provided with an opening d which is widest adjacent its line of fold, and as will be seen in Fig. 2, is adapted to be disposed upward against the inside of the back to form a pocket to receive the interlocking tongue k of the base. E represents an integrally formed pasting flap that is adapted to be stuck to the inner edge portion e' of the back to retain the folded blank in rectangular shape. The closure flap that extends upward from the back member a , includes a top portion f and front tongue portion g , the lower edge of which is adapted to be shoved down in back of the front member c .

In the folding of the box the depending bottom portions b' and c' are bent along the lines of the creases and disposed inward at a right angle so that they may be laid together and glued if desired, or secured by the attachment thereto of the bottom member h .

The base i shown in Fig. 6 is relatively flat and rectangular in form and of a size to snugly fit into the bottom portion of the box, and includes depending flanges j around its edge portion to support the base in spaced relation to the bottom of the box. This base is further provided with a central opening l therethrough and extended parallel flanges $m-m$ that are disposed at right angles to the base, forming a relatively large rectangular shaped vertical opening and into which the butt ends of a series of cards of paper matches n may be positioned, with their striking heads disposed upward, and attached to the base by stitching or wire staples o , as illustrated in Figs. 2, 3, and 4. This method of attachment permits the individual matches to be readily torn from the cards along the dotted line p indicated at the bottom edge of the cuts separating the several individual matches, see Fig. 1.

The tongue k that is cut from the base serves to engage the opening d in the side wall of the box whereby the inner edge portion of the base, preferably the back, is detachably secured thereto. The locking flaps b^2-b^2 that are formed integral with the sides $b-b$ are adapted to be folded in against the said sides after the base has been positioned in the box, in a manner to engage the top surface

of the base, and further serve to hold the base, especially the front portion thereof, in position against the bottom.

In Fig. 10 I have shown a relatively flat box, having an opening to receive the matches and flanges m that are disposed upward instead of down, and whereby the matches may be secured to the base without projecting them through the opening as far as in the other form.

As shown in Fig. 5 the rear flange or leg q of the base may be longer than the front flange, or other means may be provided to support the rear end of the base higher than the front, or in fact to support the respective cards of matches from front to rear, in slightly higher positions as to permit the matches to be more freely torn away from front to rear, from the respective cards.

My invention is not to be limited to the particular means herein shown for securing the base in a box since other means such as glue can be used, especially when the boxes are not to be refilled.

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

1. In a box of the class described, the combination with a foldable body comprising a back having an upwardly disposed extension with a hole therethrough and including top and closure flap portions and having a foldable lateral extension forming front, sides and bottom portions, all adapted to be folded and secured together to form a closable container, of a base member adapted to fit in the bottom portion of the folded body, having depending supporting flanges on its outer edge portions to engage the sides and the bottom of the folded body, and having an opening therethrough to receive merchandise, merchandise positioned in said opening, means for securing said merchandise in said opening, a tongue projected from the base to engage the hole in the upwardly disposed extension for the connection of the base to the body.

2. In a box of the class described, the combination with a foldable body comprising a back having an upwardly disposed extension with a hole therethrough and including top and closure flap portions and having a foldable lateral extension forming front, sides and bottom portions, all adapted to be folded and secured together to form a closable container, of a base member adapted to fit in the bottom portion of the folded body, the depending supporting flange on the back edge being longer than the front in a way to support the said base member at an incline with respect to the bottom of the body, having depending supporting flanges on its outer edge portions to engage the sides and the bottom of the folded body, and having an opening therethrough to receive merchandise,

merchandise positioned in said opening, means for securing said merchandise in said opening, a tongue projected from the base to engage the whole in the upwardly disposed extension for the connection of the base to the body.

3. In a box of the class described, the combination with a foldable body comprising a back having an upwardly disposed extension with a hole therethrough and including top and closure flap portions and having a foldable lateral extension forming front, sides provided with foldable flaps, and bottom portions, all adapted to be folded and secured together to form a closable container, of a base member adapted to fit in the bottom portion of the folded body, having depending supporting flanges on its outer edge portions to engage the sides and the bottom of the folded body, and having an opening therethrough to receive merchandise, merchandise positioned in said opening, means for securing said merchandise in said opening, a tongue projected from the base to engage the hole in the upwardly disposed extension for the connection of the base to the body, said foldable flaps on the sides being adapted to be disposed inward over the top of the base member to hold it in position.

Signed at Bridgeport, in the county of Fairfield, and State of Connecticut, this 3rd day of January, A. D. 1931.

BRADFORD G. WARNER.