

May 24, 1932.

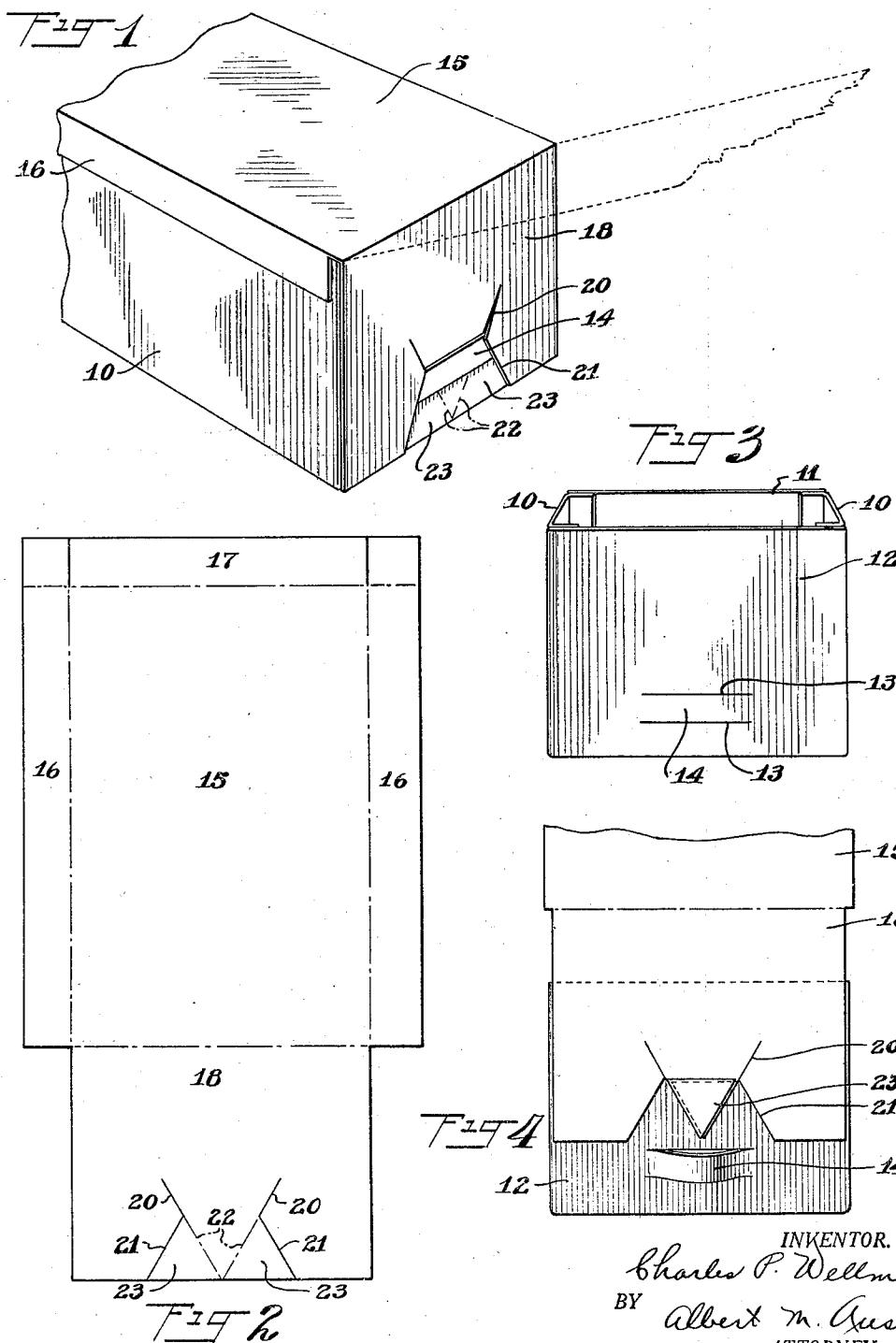
C. P. WELLMAN

1,859,903

FOLDED BOX

Filed June 10, 1929

2 Sheets-Sheet 1



INVENTOR.
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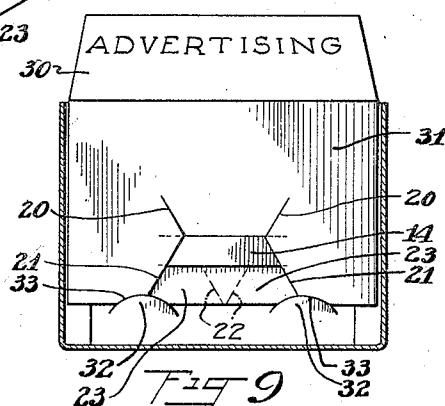
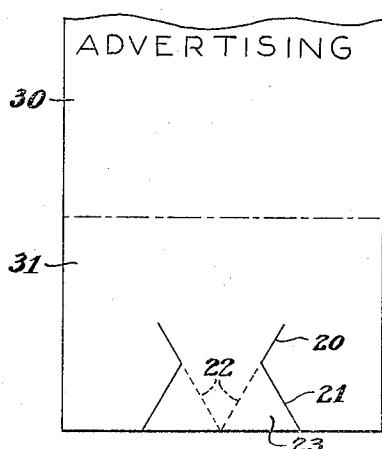
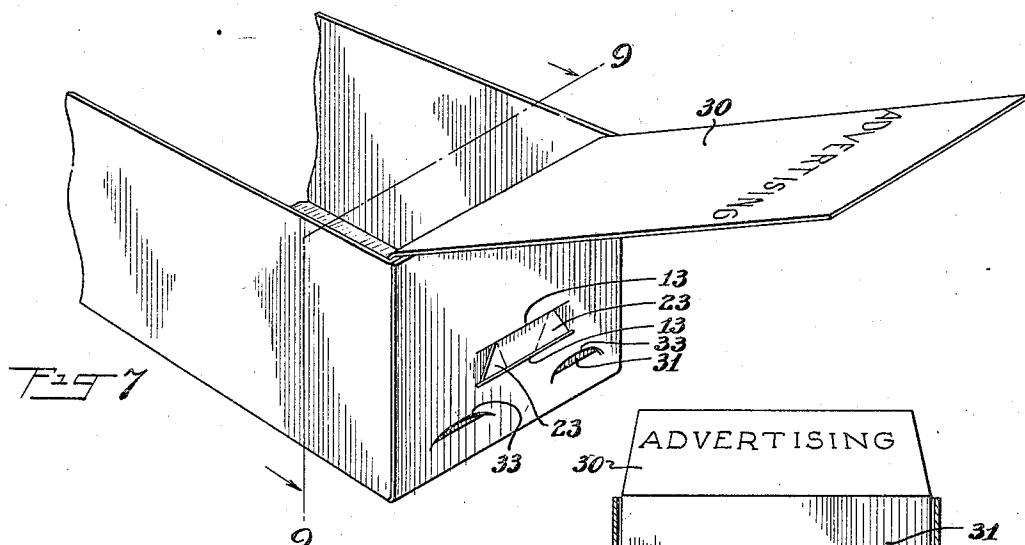
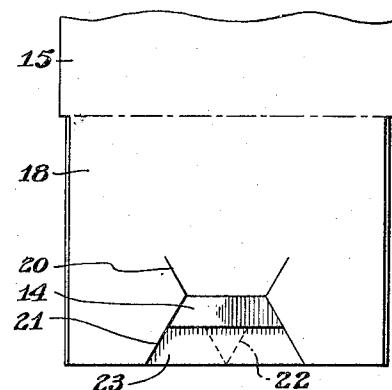
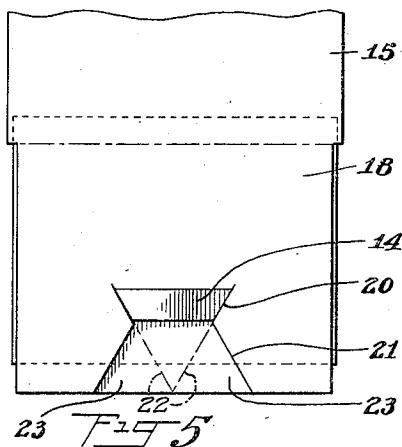
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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FOLDED BOX

Application filed June 10, 1929. Serial No. 369,536.

This invention relates to folded boxes, and more particularly to a new and improved fastening device for attaching the various parts of a box formed from a folded blank.

5 The invention relates specifically to a folded box having a detachable cover or advertising display card, and means for attaching this element to the box and locking the parts in position. This is accomplished by 10 providing a tongue having infolded tabs associated therewith which are adapted to lock the parts when in extended position.

The invention provides means for saving material in the formation of the box, particularly when the sides of the cover are of less depth than the box itself, and eliminates the waste of material which would be present if the entire assembly were formed of a one piece blank.

20 The invention also provides for attaching a display card to a box and for forming the display card together with the box blank in a single operation.

The invention also consists in certain new 25 and original features of construction and combinations of parts hereinafter set forth and claimed.

Although the novel features which are believed to be characteristic of this invention 30 will be particularly pointed out in the claims appended hereto, the invention itself, as to its objects and advantages, the mode of its operation and the manner of its organization may be better understood by referring to the 35 following description taken in connection with the accompanying drawings forming a part thereof, in which

Fig. 1 is a perspective view showing the 40 box and cover in closed position;

Fig. 2 is a plan view of the blank from which the cover is formed;

Fig. 3 is a perspective view of the box with the cover removed;

45 Fig. 4 is an end elevation of the box showing the means for attaching the cover;

Fig. 5 is an end elevation of the box and cover showing a further step in the attachment;

50 Fig. 6 is an end elevation of the box and

cover showing the cover attached and locked in position;

Fig. 7 is a broken perspective of the box and display card attached;

Fig. 8 is a plan view of the blank from 55 which the display card is formed; and

Fig. 9 is a section taken on the line 9—9 of Fig. 7.

Like reference characters denote like parts 60 in the several figures of the drawings.

In the following description and in the claims parts will be identified by specific names for convenience, but they are intended to be as generic in their application to similar parts as the art will permit.

Referring to the drawings, and more particularly to Figs. 1 and 3, the invention is shown as applied to a box comprising side members 10, front 11 and back 12 which may be formed together with a bottom member (not shown) from a blank and folded into box form in any convenient manner. Back 12 is provided with a pair of parallel slits 13 forming therebetween a strap 14 for a purpose to be described.

The cover member as shown in Fig. 2 may be formed from a blank suitably cut and scored to provide top 15, side flap 16, end flaps 17 and attaching panel 18. Flaps 16 and 17 may be bent downwardly at right 70 angles to top 15 as shown in Fig. 1 and secured in any convenient manner.

Panel 18 is provided with cuts 20 and 21 and creases 22 which are preferably inclined 75 60° to the bottom of said panel whereby the triangular tabs 23 between creases 22 and cuts 21 are substantially equilateral. Cuts 20 form extensions of creases 22 and lie outside of tabs 23.

In attaching the cover member to the folded box triangular tabs 23 are bent inwardly about creases 22 as shown in Fig. 4 to form a pointed member which is inserted downwardly until strap 14 enters cuts 20 as shown 80 in Fig. 5. Tabs 23 are then bent outwardly into their original position and the panel raised until strap 14 engages the cuts 21 as shown in Fig. 6. When in this position the cover is securely attached and cannot be re- 85 90 95 100

moved without again folding triangular tabs 23 and reversing the attaching operation. The tabs 23 provide an efficient lock and are held in extended position by means of strap 14. It is to be noted that they cannot again be brought into folded position until panel 18 is slipped downwardly to the position shown in Fig. 5. This movement is prevented by the cover itself when the box is in closed position. Consequently there is no possibility of the cover becoming inadvertently detached.

An advertising or display card can be formed in a manner similar to the cover member and secured to the box as desired. As more fully shown in Figs. 7 to 9, the advertising card is formed with a display surface 30 and an attaching panel 31. The attaching panel is provided with slots 20 and 21 and creases 22 in the manner pointed out in connection with the cover member. In case it is desired to prevent the panel from extending to the bottom of the back 12 of the box, a plurality of flaps 32 may be formed by making arcuate cuts 33 in the back of said box. After the panel has been attached in the manner pointed out in connection with Figs. 4 to 6, the lower portion thereof may be inserted under flaps 32 and securely locked thereby. In this position the panel is locked against being raised by strap 14 contacting with cuts 21 and is prevented from being lowered by tabs 32. It is therefore positively attached to the box and danger of accidental removal is eliminated.

In forming a box and advertising card it is frequently desirable, in the interest of economy, to provide the same with one calendered and one uncalendered surface. If the card were formed integrally with the box and folded into display position the calendered surface would appear on the outside of the box and at the rear of the card. Obviously for display purposes it is preferable to have the calendered or printed surface of the card appear on the front, facing the contents of the box to be displayed. The present invention permits this to be accomplished and the box and panel to be formed and printed in a single operation, since the panel is formed as a separate piece and may be turned with the calendered surface to the front before it is attached to the box in the manner above pointed out.

The present invention in addition to effecting the saving in stock and in the printing operations as above pointed out, eliminates the use of attaching means such as glue, rivets, etc. and thereby decreases the cost of assembling.

It is obvious that the above disclosed lock can be used for the securing of various portions of the folded box, and is not limited to the particular embodiment which has been disclosed for purposes of illustration. It may

be used in general in any location wherein it is desired to secure two elements of a flexible blank.

While certain novel features of the invention have been shown and described and are pointed out in the annexed claims, it will be understood that various omissions, substitutions and changes in the forms and details of the device illustrated and in its operation may be made by those skilled in the art without departing from the spirit of the invention.

What is claimed is:

1. In a folded box, a back member having a pair of parallel cuts therein to form a strap therebetween, a separable element having folded tabs, said tabs being arranged to be folded into overlapping position to permit said element to be inserted under said strap and to be unfolded into extended position to lock said element against withdrawal.

2. In combination with a box, a separable member therefor having an attaching panel, a pair of diagonally extending creases forming a V at the bottom of said panel, a pair of cuts formed on an extension of said creases, a second pair of cuts extending from said first cuts at an angle with said creases to form triangular tabs, said tabs being adapted to be folded about said creases into overlapping relationship to permit said panel to be secured to said box.

3. In a folded box, a back member having a pair of parallel cuts forming a strap therebetween, a separable member therefor having an attaching panel, a pair of diagonally extending creases forming a V at the bottom of said panel, a pair of cuts formed on an extension of said creases, a second pair of cuts extending from said first cuts at an angle with said creases to form triangular tabs, said tabs being adapted to be folded about said creases into overlapping relationship to permit said tabs to be inserted under said strap for attaching purposes.

4. In a folded box, a back member having a pair of parallel cuts forming a strap therebetween, a separable member therefor having an attaching panel, a pair of diagonally extending creases forming a V at the bottom of said panel, a pair of cuts formed on an extension of said creases, a second pair of cuts extending from said first mentioned cuts at an angle with said creases to form triangular tabs, said tabs being adapted to be folded about said creases into overlapping relationship whereby they may be inserted under said strap for attaching purposes, said strap engaging with said first mentioned cuts to permit said tabs to be unfolded into extended position and engaging with said second mentioned cuts to prevent removal of said separable member.

5. In a folded box, a back member having a pair of parallel cuts forming a strap there-

between, a separable member therefor having an attaching panel, a pair of diagonally extending creases forming a V at the bottom of said panel, a pair of cuts formed on an extension of said creases, a second pair of cuts extending from said first cuts at an angle with said creases to form triangular tabs, said tabs being adapted to be folded about said creases into overlapping relationship to permit said tabs to be inserted under said strap for attaching purposes, said back member having an upwardly extending flap adapted to engage said panel to prevent withdrawal thereof.

6. In a folded box, a back member having a pair of parallel cuts therein to form a strap therebetween, a separable element having folded tabs, said tabs being arranged to be folded into overlapping position to permit said element to be inserted under said strap and to be unfolded into extended position to lock said element against withdrawal, said back member having an upwardly extending flap for engaging said element and limiting the movement thereof.

In testimony whereof I have hereunto set my hand.

CHARLES P. WELLMAN.

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