

April 15, 1941.

L. D. YOUNG

2,238,147

BOX

Filed June 25, 1937

2 Sheets-Sheet 1

Fig. 1.

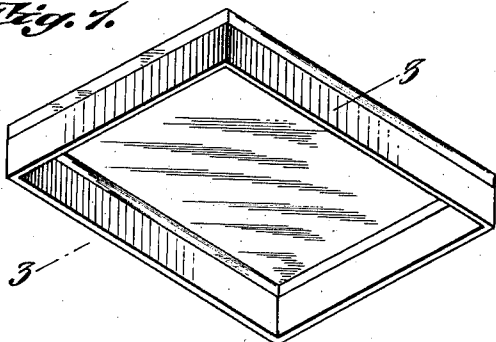


Fig. 3.

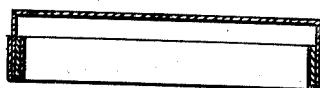


Fig. 2.

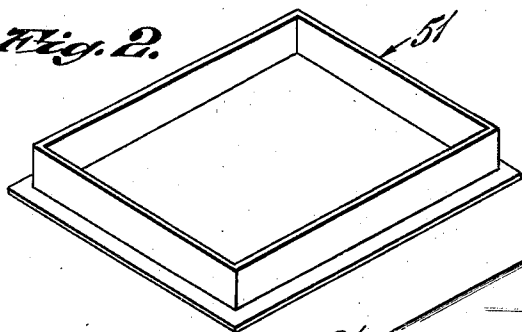


Fig. 4.

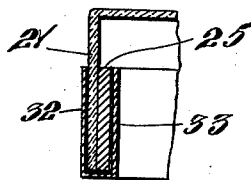


Fig. 7.

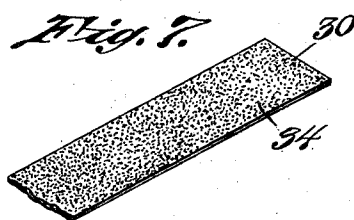


Fig. 5.

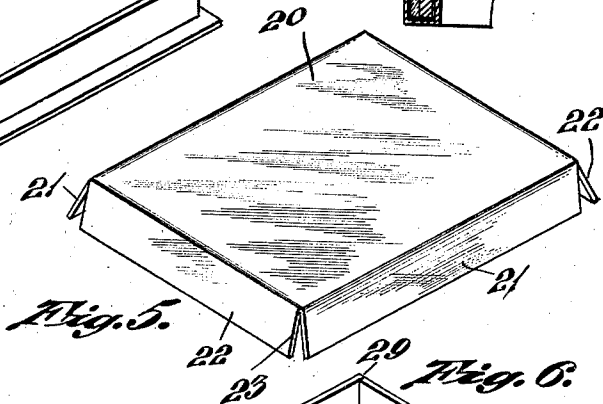


Fig. 9.

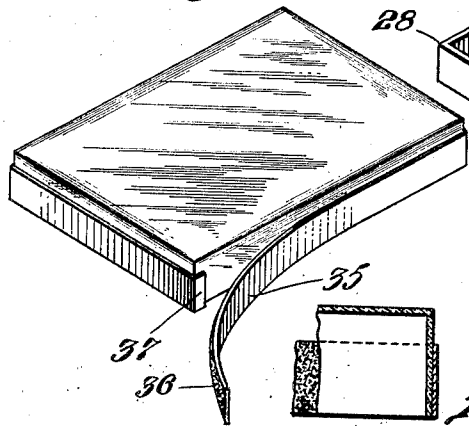


Fig. 8.



Fig. 10.

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Fig. 11.

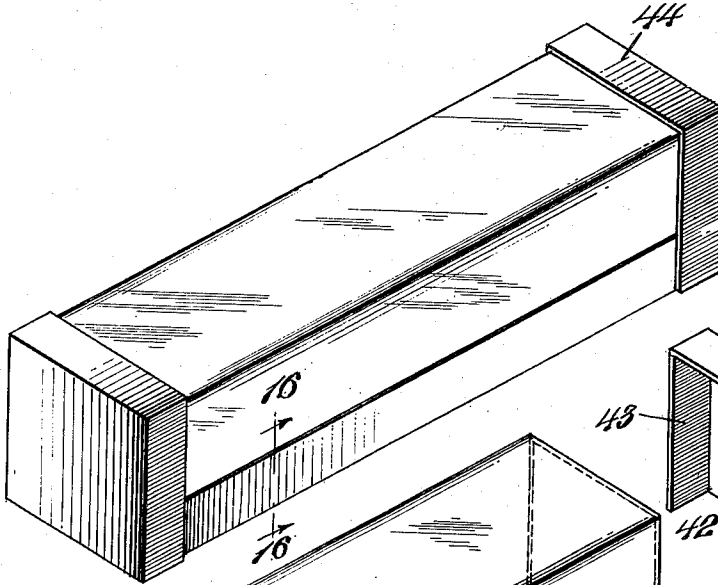


Fig. 12.

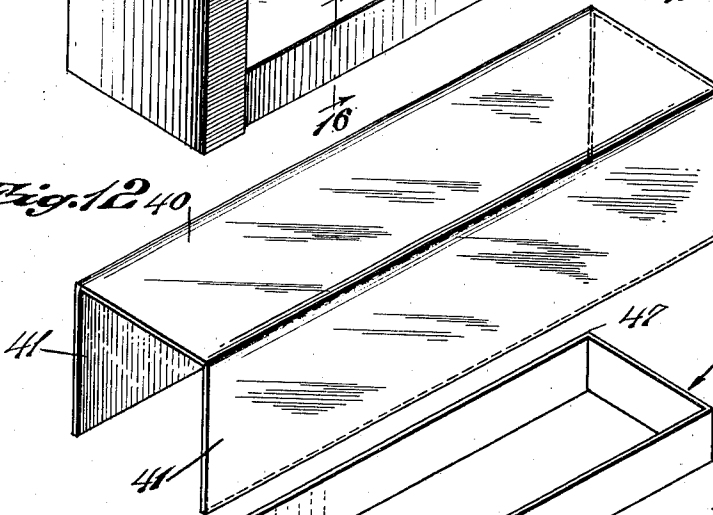


Fig. 13.

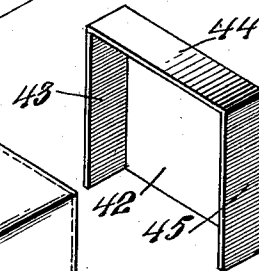


Fig. 14.

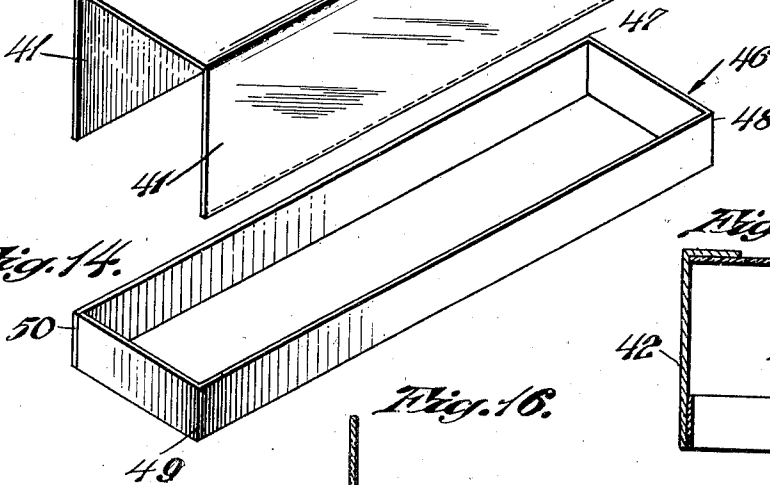


Fig. 15.

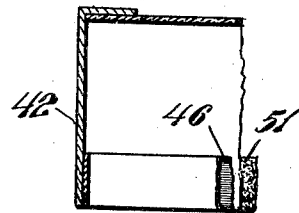


Fig. 16.



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UNITED STATES PATENT OFFICE

2,238,147

BOX

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Application June 25, 1937, Serial No. 150,216

2 Claims. (Cl. 206—44)

This invention relates to a box, more particularly the cover of a box; and has for its object to provide a transparent cover for a display box enabling the merchandise in the box to be viewed without opening the same, thus providing a display of the merchandise without exposing the merchandise to the entrance of foreign matter.

Another object of the invention is the securing of the transparent material in such a way as to securely and simply hold its corners in an effective manner which has proven to be of difficulty in the art.

Another object of the invention is to stiffen the edge portion of the cover so as to facilitate its use.

A further object of the invention is to provide a cover which will be of attractive and neat appearance which will add to the appearance of any box upon which the same may be assembled.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings:

Fig. 1 is a perspective view of the top of the box;

Fig. 2 is a perspective view of the body portion of the box upon which the cover is to be placed;

Fig. 3 is a sectional view on substantially line 3—3 of Fig. 1;

Fig. 4 is an enlarged fragmental portion of a section of the box;

Fig. 5 is a perspective view of the transparent portion of one form of cover;

Fig. 6 is a perspective view of a stiffening strip for the cover;

Fig. 7 is a perspective view of a fragmental portion of the binder member for securing the stiffening strip and walls of the box together;

Fig. 8 is a perspective view of this binder member folded into working position;

Fig. 9 is a modified view showing a different form of stiffening member and consisting only of a binder strip on the outer surface of the walls;

Fig. 10 is a fragmental sectional view illustrating this binder strip in position;

Fig. 11 is a perspective view of a modified form of box cover;

Fig. 12 is a perspective view of the transparent portion thereof;

Fig. 13 is a perspective view of a non-transparent end thereof;

Fig. 14 is a perspective view of the stiffening strip;

Fig. 15 is a fragmental sectional view showing the stiffening strip and binder;

Fig. 16 is a sectional view through the finished box on line 16—16 of Fig. 11.

In the use of transparent material for boxes difficulty is experienced in the securing of the edges or corners of the boxes in a permanent relation; and in order to provide a box which will overcome the difficulties which have in the past been experienced in the trade I have provided a cover of transparent material and have provided a binding means for the edges or side and end walls of the cover that the same may be effectively secured in place; and the following is a more detailed description of the present embodiment of this invention, illustrating the preferred means by which these advantageous results may be accomplished:

With reference to the drawings, I have shown three different modifications that shown in Figs. 1 to 10 inclusive comprising a transparent top wall 20 having downwardly folded side walls 21 and end walls 22 formed by cutting out or notching the corners of a rectangular sheet of the transparent material so that the corners 23 at the ends of the side and end walls will be in close adjacency when these side and end walls are folded from the top wall 20. A stiffening strip of fiber board designated generally 25 and formed by a narrow width of the same being folded to provide right angular corners 26, 27 and 28 with its ends together as at 29 is provided in a size and shape to fit the down turned side walls snugly along the inner surface thereof. This stiffening strip is secured in place by folding a piece of tinsel paper 30 as at 31 into U-shape to provide opposite portions 32 and 33 with a gummed surface 34 which will cement to the downwardly extending walls 21, 22 and to the stiffener 25 and will serve to secure the stiffener in position even though the gummed securing surface 33 does not on its inner ply 33 contact the inner surface of the walls 21 or 22. The stiff band may or may not be cemented in place, depending upon the relative weights of the material and strength of the stiffening structure.

In some cases instead of providing an edge as above described, a thicker strip of paper 35 with a gummed surface 36 or some suitable cement may be wound about the outer edge alone of the cover commencing as at 37 at one corner and extending completely about the downwardly extending walls to terminate at this location and by being of heavier material alone forms the stiffening

and binding edge for securing these downwardly extending walls in position.

In a third modification, illustrated in Figs. 11 to 16, the top wall 40 has downwardly extending side walls 41 and a separate end wall 42 provided with flanges 43, 44 and 45, which extend along the outer surface of the top and side walls. A stiffening member 46 extends about the lower edge of the walls 41 and end walls 42 being shaped similarly to that shown in Fig. 6 and bent at the corners 47, 48 and 49 with its ends together as at 50. A binding strip 51 secures the stiffener in place along both surfaces of the side walls, as illustrated in Fig. 15, leaving the end wall 42 unbound, it being of non-transparent material and heavier and does not require such securing of the stiffener material in place. By this arrangement a very good stiffening edge is provided enabling the box cover to be readily manipulated without crushing and to be positioned on a suitable box such as shown at 51 in Fig. 2.

The foregoing description is directed solely towards the construction illustrated, but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claims.

I claim:

1. A removable box cover having an open side comprising a rectangular flat sheet of transparent material folded so as to provide a top and downwardly extending side walls only, two opaque end walls each having flanges extending along said top and said side walls, a separate closed rectangular stiffening strip extending along the lower edge portion of said side walls and along the lower portions of the end walls, and means for securing said parts in such relationship.

2. A removable box cover having an open side comprising a rectangular flat sheet of transparent material folded so as to provide a top and downwardly extending side walls only, two opaque end walls each having flanges extending along said top and said side walls, a separate closed rectangular stiffening strip extending along the lower edge portion of said side walls and along the lower portions of the end walls, and a U-shaped binding member enclosing said stiffening strip and lower edge portion of said walls and cemented to said walls and strip to hold said strip thereto.

LEWIS DOUGLAS YOUNG.