

April 17, 1945.

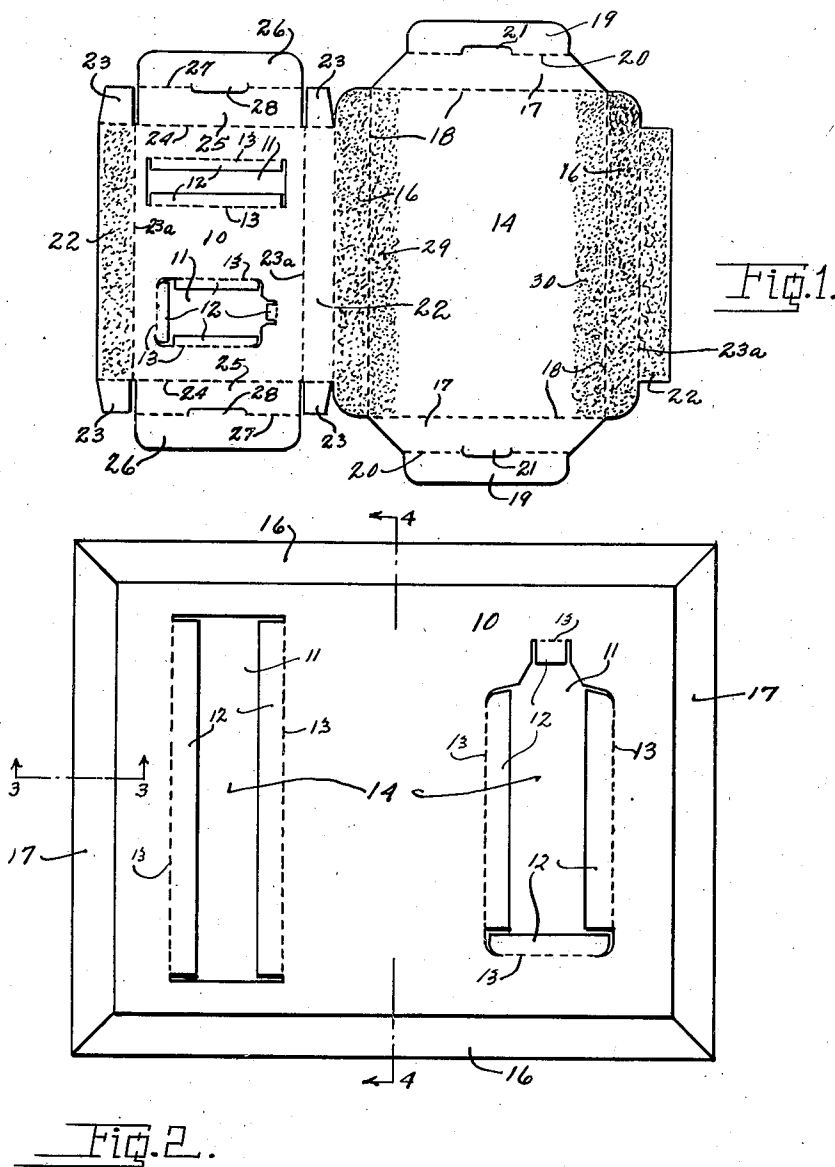
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2,374,006

CARTON

Filed April 23, 1941

3 Sheets-Sheet 1



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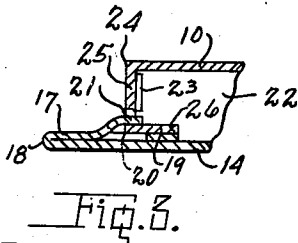
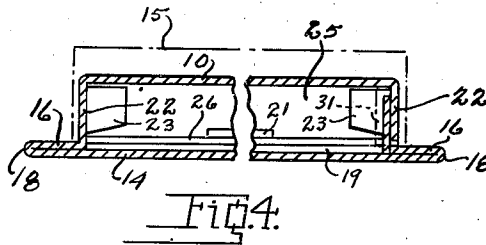
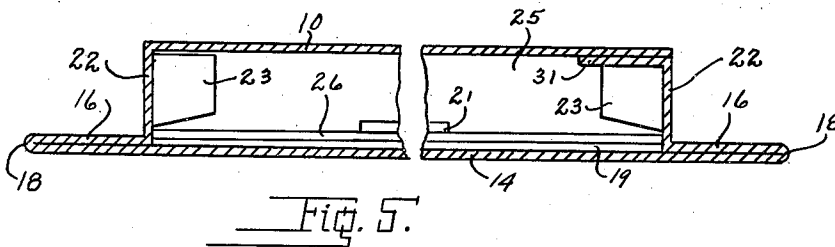
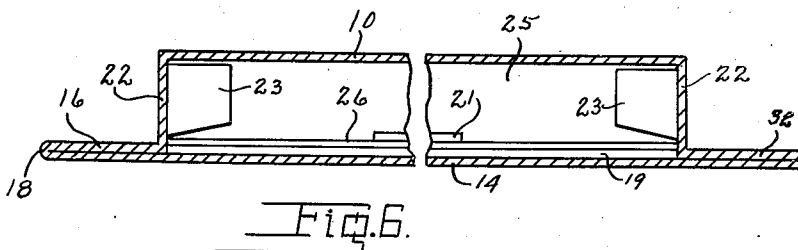
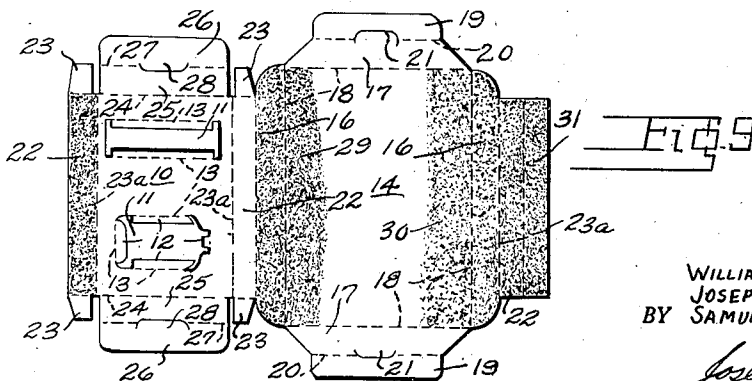
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3 Sheets-Sheet 2



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CARTON

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3 Sheets-Sheet 3

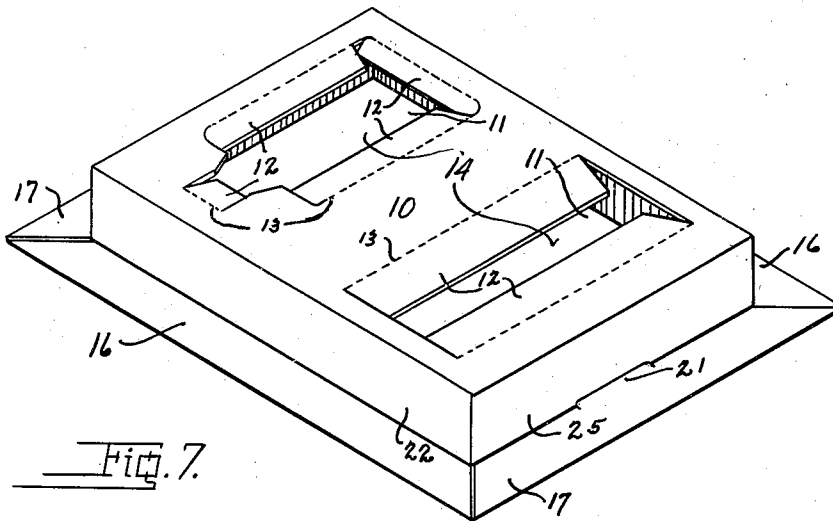


Fig. 7.

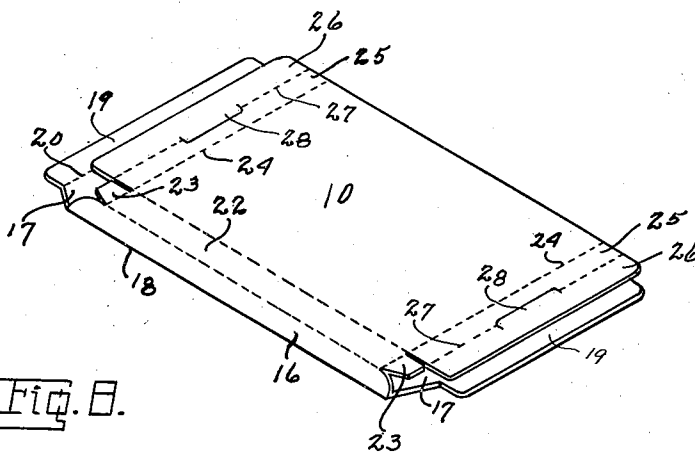


Fig. 8.

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CARTON

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Application April 23, 1941, Serial No. 389,926
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7 Claims. (Cl. 206—44)

This invention relates to cartons in general and in particular to display cartons formed from single blanks wherein the merchandise is more attractively displayed.

The principal object of this invention is the provision of a display carton or carton part which has an extending flange from at least one edge of the body of the carton part.

Specifically the object of this invention is the provision of a carton part or display base in which flat supporting surface is provided having an elevated top portion on which articles to be displayed are disposed or through which said articles are let to be positioned by said top and held in relative position thereby.

It is also an object of this invention to provide a display carton part or base, such as set forth in the preceding paragraph, and wherein a single blank of material is employed for forming the same.

A still further object of the invention is the provision of a display carton base or part wherein the display bed is above the supporting bottom and which bottom extends beyond the display bed to provide an extension edge or flange from the bottom of the display bed.

Another important object of this invention is to provide a display carton base or part such as set forth in the preceding objects and which is so constructed that it may be shipped from the manufacturer to the user in a knocked down or flattened condition requiring the user to merely raise the bed above the supporting base and fold extending sides to provide the walls between the display bed and supporting base thereby saving shipping costs from the manufacturer to the user, saving storage space for the user, and effecting other savings of a similar nature.

Still other objects are to provide an efficient, durable and comparatively inexpensive device to accomplish the objects hereinbefore set forth.

Other objects and advantages of the present invention should be readily apparent by reference to the following specification considered in conjunction with the accompanying drawings forming a part thereof and it is to be understood that any modification may be made in the exact structural details there shown and described, within the scope of the appended claims, without departing from or exceeding the spirit of the invention.

Fig. 1 is an extended plan view of the cardboard or the like blank required to form a carton in accordance with the present invention.

Fig. 2 is a top plan view of a carton formed from the blank shown in Fig. 1.

Fig. 3 is an enlarged fragmentary sectional view taken on line 3—3 on Fig. 2.

Fig. 4 is an enlarged transverse fragmentary sectional view taken on line 4—4 on Fig. 2.

Fig. 5 is a transverse sectional view similar to Fig. 4 but illustrating a slight modification in the assembly of the parts and therefore a slight modification in the blank.

Fig. 6 is a fragmentary transverse sectional view similar to Figs. 4 and 5 but illustrating a slight further modification in the assembly of the parts and therefore the blank from which it is formed.

Fig. 7 is a perspective view of one form of a carton display base made in accordance with this invention and may be formed from either of the three modifications of a blank shown in the application.

Fig. 8 is a perspective view of a carton in its manufactured condition or in its knocked down form as it comes from the manufacturer to the user ready to be set up as disclosed in Fig. 7.

Fig. 9 is a view similar to Fig. 1, showing a slight modification in the form of the blank.

Throughout the several views of the drawings the same or similar reference characters are employed to denote the same or similar parts.

Referring to the drawings, it will be seen that the carton consists of a blank as shown in Fig. 1 which is delivered to the user in the form shown in Fig. 8, to be set up by said user as shown in Fig. 7 and with which an ordinary box lid, which is not novel in itself and which does not form the subject matter of this application but is merely complementary to the invention to be hereinafter disclosed, may be used.

In order to clarify the subject of this application and to define the scope of the appended claims it is submitted that the top 10 may have openings 11 of any desired number, shape and size therein and preferably provided with flaps 12 which are scored at 13 ultimately adapted to be bent into the interior of the carton for the purpose of holding articles therein. It is evident that in most instances articles so packaged rest on the bottom 14 of the carton and protrude above the top 10 for exhibition purposes. The aforementioned cover 15 (Fig. 4) is used while in shipment or storage, and when made of transparent material is used during display, will be of sufficient height above top 10 to clear the articles located therein.

Referring now to the utilitarian features of the

blank it will be seen that the bottom 14 is provided with extensions 16 along its sides and extensions 17 along its ends which have a scored demarcation line 18 dividing the extensions from the bottom 14.

The end extensions 17 are further extended to form end flaps 19 which have a scored demarcation line 20 therein. Located medially of each score 20 is a U shaped slot providing a tab 21. It should be understood that the drawings are for purpose of illustration only and that there may be provided two or more tabs 21 on the score lines 20 which depends entirely on the size of the carton and the number of tabs necessary to ensure proper locking of the erected carton.

The side extensions 16 are further extended to form side flaps 22 which have a scored demarcation line 23 therein. Reference to Fig. 1 will clearly show that the inner side flap 22 also forms a side flap for the top 10 and has a complementary side flap 22 at the outside edge of the top 10. The side flaps 22 of the top 10 only are terminally provided with tabs 23.

The score 24 located across the ends of the top 10 provide a demarcation for the tabs 23 and the end extensions 25 of the top 10.

The end extensions 25 are further extended to form end flaps 26 which have a scored demarcation line 27 therein. Located medially of each score 27 is a U shaped slot providing a tab 28. It follows that two or more tabs 28 may be located on the score lines 27, depending on the size of the carton. The only requisite being that the tabs on the top portion mesh with the tabs on the bottom portion.

Still referring to Fig. 1 it will be seen that the extensions 16 and complementary strips 29 and 30 on the bottom 14 have an adhesive substance applied to their upper surfaces as shown in the extended plan view. Also the upper surface of the outer side flap 22 of the top and the under or reverse surface of the outer side flap 22 of the bottom are similarly treated with an adhesive substance.

The foregoing is believed to fully describe the component parts of the invention which is formed in the following manner through the gluing and pressing machine.

The surfaces 16 and 29 are contacted after an adhesive is applied and pressed so that they adhere together thus bringing the top 10 across the bottom 14. The surfaces 16 and 30 are then contacted and pressed so that they adhere together and finally the adhesive surfaces of the flaps 22 are contacted and pressed so that they adhere together. In this manner the carton may be stored in a flattened state and is ready for erection as required. It should be understood that the successive steps herein mentioned may, and usually are simultaneous during the manufacture of the carton.

In the erection of the carton the top 10 is roughly aligned over the bottom 14, that is to say the side flaps 22 are raised from their flattened state and are arranged at right angles to the plane of the top and bottom so that the carton is given depth. The end tabs 23 are then bent inward at right angles over which the end extensions 25 are folded to form the end closure of the carton, the flaps 26 are bent inward and lie along the bottom held thereagainst by the action of the end tabs 23. It will be noted that in doing this a slot will be formed by tab 28. Finally the extensions 17 are bent back on the bottom 14 and

the end flaps 19 forced inward to pass beneath the flaps 26. In so doing the tabs 21 lie horizontally and are caused to project into the slots formed by tab 28 thereby locking the ends of the carton against upward and downward movement. The arrangement described is best seen by referring to Figs. 3 and 7.

A slightly modified construction in the blank is shown in Fig. 9, in that a flap 31 is provided as extending from the panel 22 at one side of the blank. The flap 31 is provided with an adhesive and bent over the adjacent portion 22 so that an extra thickness of the cardboard blank is provided to even the tension on the gluing machine when pressure is applied; all other features of the invention together with the forming of the carton are unaffected by the addition of flap 31.

Still another modification is shown in Fig. 5 wherein the top 10 is not provided with a side extension 22 on its outer side; the final glue lap is caused through the medium of the flap 31 which is pressed to the underside of the top 10 having a suitable adhesive therebetween.

Another modification of the final glue lap is shown in Fig. 6 wherein the extensions on the outer side of the bottom 14 are all removed and the addition of an extra flap 32 provided adjacent the outer side extension 22 of the top 10. The flap 32 is provided with an adhesive and pressed to the bottom 14.

In the original disclosure and the modifications shown it should be clearly understood that it is the disposition of the final glue flap rather than any basic change in the blank as a whole which forms the subject matter of the individual modifications. In the drawings Fig. 2 illustrates the base flanges extending beyond the confines of the container proper the side walls of which are composed of the portions 22 and 25 and the flanges composed of the members 16 and 17.

While we have described our invention strictly in accordance with the embodiments shown, it is to be understood that we may make changes such as to suit the process of manufacture without departing from the spirit of the invention and scope of the appended claims.

What is claimed is:

1. A display carton formed from a single blank of cardboard or the like material comprising a pair of panels of dissimilar area with the larger panel acting as a supporting base for the carton and the smaller panel acting as a display bed, foldable portions between said panels whereby a connecting wall is formed by one of said portions and an overlapping layer is formed by another portion for engagement with an adjacent equal portion of the bottom panel, and said panels having projecting from their remaining edges foldable portions for forming a connecting wall and an upper layer for the adjacent portion of the bottom panel, whereby the carton may be folded flat for shipment and erected to provide a base portion, an upwardly disposed display portion and a flange on the base portion beyond the display portion.

2. A display carton formed from a single blank of cardboard or the like material comprising a pair of panels of dissimilar area with the larger panel acting as a supporting base for the carton and the smaller panel acting as a display bed, foldable portions between said panels whereby a connecting wall is formed by one of said portions and an overlapping layer is formed by another portion

for engagement with an adjacent equal portion of the bottom panel, said panels having projecting from their remaining edges foldable portions for forming a connecting wall and an upper layer for the adjacent portion of the bottom panel, whereby the carton may be folded flat for shipment and erected to provide a base portion, an upwardly disposed display portion and a flange on the base portion beyond the display portion, and foldable flap portions from the remaining edges of the top and bottom panels adapted to be folded to form walls thereby.

3. A display carton or base member formed from a single blank of cardboard or similar material creased at intervals to provide a pair of panels of dissimilar area, connecting walls, and means for permanent attachment of the ends of the blank to one another, said connecting walls being adapted to extend from opposite sides of the smaller panel toward and be connected with the larger panel along lines inwardly spaced from the sides of said larger panel whereby the connecting walls elevate the panel of smaller area above the panel of larger area and provide on the panel of larger area flanges extending beyond the sides of the smaller area panel, and a flap extending from each of the remaining free edges of the panel of larger area foldable on itself to provide flanges corresponding to the flanges along the other sides of the display carton.

4. A display carton or base member formed from a single blank of cardboard or similar material creased at intervals to provide a pair of panels of dissimilar area, connecting walls, and means for permanent attachment of the ends of the blank to one another, said connecting walls being adapted to extend from opposite sides of the smaller panel toward and be connected with the larger panel along lines inwardly spaced from the sides of said larger panel whereby the connecting walls elevate the panel of smaller area above the panel of larger area and provide on the panel of larger area flanges extending beyond the sides of the smaller area panel, said panel of smaller area having extensions from its opposite ends creased for folding to form depending walls between the panels, and said panel of larger area having projecting from its remaining ends foldable extensions to form flanges beyond the smaller area panel and which flanges correspond to those along the sides of the display carton.

5. A display carton or base member formed from a single blank of cardboard or similar material creased at intervals to provide a pair of

panels of dissimilar area, connecting walls, and means for permanent attachment of the ends of the blank to one another, said connecting walls coming one on each side of the device and being defined by fold lines, and being adapted to extend from opposite sides of the smaller panel toward and be connected with the larger panel each at one of its fold lines along lines equally inwardly spaced from the sides of said larger panel, whereby the connecting walls elevate the panel of the smaller area above the panel of larger area and provide on the panel of larger area a similar flange extending beyond the sides of the smaller area panel.

6. A display carton or base member formed from a single blank of cardboard or similar material creased at intervals to provide a pair of panels of dissimilar area, connecting walls, and means for permanent attachment of the ends of the blank to one another, said connecting walls coming one on each side of the device and being defined by fold lines, and being adapted to extend from opposite sides of the smaller panel toward and be connected with the larger panel each at one of its fold lines along lines equally inwardly spaced from the sides of said larger panel, whereby the connecting walls elevate the panel of smaller area above the panel of larger area and provide on the panel of larger area a similar flange extending beyond the sides of the smaller area panel, said panel of smaller area having extensions from its opposite ends creased for folding to form depending walls between the panels.

7. A display carton part formed from a single blank comprising a display panel for supporting merchandise, a spaced backing portion having the display panel superimposed thereover with at least one side of the backing portion projecting beyond the corresponding side of the display panel, connecting portions between said corresponding side of the display panel and the backing portion comprising an upstanding portion and a superimposed portion between said upstanding portion and end of the backing projecting portion with said superimposed portion and said backing extending portion secured in face contact to one another to form a flange extending beyond the display panel along at least one edge thereof, and means permanently connecting the other sides of the display panel and the backing portion to one another.

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