PAPER DISPLAY CARTON WITH TRANSPARENT WINDOW

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2 Sheets-Sheet 1

Fig. 1

Fig. 2

Fig. 3

Fig. 4

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2 Sheets-Sheet 2

Fig. 5

Fig. 6

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This invention relates generally to paper containers, and more particularly to paper cartons having a hinged cover and a display window.

One object of my invention is to provide an improved carton having a large display window and a hinged cover with a closure locking device.

Another object of my invention is to provide an improved display carton that may be nested with like containers to save space in storing and shipping.

Still another object of my invention is to provide a carton that is already set up and that may be easily filled with the commodity to be packaged.

Other objects and advantages of the invention will be apparent to persons skilled in the art as the same becomes better understood by reference to the following description, taken in connection with the accompanying drawings, in which I have illustrated one typical embodiment of my invention, and wherein—

Figure 1 is a plan view of the prepared blank assembly from which my improved carton is formed.

Figure 2 is an elevation of the completed carton in set-up, closed condition.

Figure 3 is a plan view of Figure 2.

Figure 4 is an end view of Figure 2.

Figure 5 is a perspective view of the carton in set-up condition ready to be filled, with the hinged cover extending upwardly from the rear wall.

Figure 6 is a perspective view of the carton with the hinged cover in locked, closed condition.

Similar reference characters indicate similar parts or features in all of the views.

The present invention is embodied in the new and improved carton illustrated in the accompanying drawings. The main element of the carton is composed of a paper blank, cut, creased and folded to form a bottom, sidewalls, end walls and cover elements. The blank is provided with a large window covered with sheet Cellophane or other transparent material. The hinged cover is provided with a lock for holding the cover of the carton in closed position once it is formed to that condition.

This improved container provides a container having excellent display features for the commodity packaged therein. The carton has the advantage of being ready at all times to receive the product to be packaged because the cartons are nested, stored and shipped in set-up condition. The user has only to fill the carton and close the cover. A locking element is also provided to lock the cover in closed position.

Figure 1 illustrates the prepared, paper blank from which the body of the carton is formed.

The blank may be made of paperboard or other suitable sheet material. A Cellophane sheet, or other flexible, transparent sheet material, is placed over the window opening and adhesively secured to the areas about the said opening, to provide a display window. The body blank is provided with parallel creased lines 4, 5, 6 and 7 which effect a division of the blank into five areas. The first area is divided by creased lines 4, 5, 6, and 7 to provide a bottom 10, end walls 11, and end wall extensions 12 having lock notches 13. The second area of the blank is divided by creased lines 14 diverging from the adjacent ends of creased lines 8 to provide a front wall 15 and glue flaps 16. The said front wall 15 is provided with a cut-out 17. The third area is divided by creased lines 18, diverging from the adjacent ends of creased lines 8, to provide a rear wall 19 and glue flaps 20. The fourth area is separated by window opening 3, and comprises the cover 21. The fifth area comprises the tuck element 22 crease-hinged to the cover 21. The said tuck element is inserted inside and adjacent to the front wall 15 when the carton is in set-up condition. The window opening 3 extends from the mid area of the rear wall 19 across the cover 21 and into the tuck element 22. Locking slots 23 are provided between the cover 21 and the tuck element 22.

After the paperboard blank (Fig. 1) has been creased and cut, a sheet of Cellophane is adhesively secured to the areas around the window opening 3. To set up the blank to form the carton, the front wall 15 and the rear wall 19 are folded and raised slightly less than ninety degrees. The glue flaps 16 and 20 are then folded inwardly. The end walls 11 are folded and raised slightly less than ninety degrees to contact the corresponding glue flaps 16 and 20. The glue flaps 16 and 20 are secured by any desired means to the adjacent end walls 11.

The carton after the said folding and securing operations is in the condition illustrated by Figure 5. The carton in this condition may be nested with other cartons of the same size and kind thus saving space in shipping and storage.

After the carton has been filled with the commodity to be packaged, the carton is closed and locked by folding inwardly flap extensions 12, and then folding the cover on creased lines 6 and folding the tuck element 22 on creased lines 7. The cover 21 is over the end wall extensions
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12, and the tuck element 22 is positioned inside the package and adjacent to the front wall 18.

The action of closing the carton causes the cover 21 to be locked in place. The tuck element 22 passes between the inside of the front wall and the end 13a of the end wall extensions 12. When the tuck element 22 is in place, and the carton completely closed, the edges 23a of the tuck section are locked under the corresponding end wall extensions 12 at the area adjacent to 13a, thus holding the cover in closed position.

Having now described my invention, what I claim is:

A blank assembly for a carton, comprising a bottom, end walls, end wall extensions having lock notches cut therein, front and rear walls, said front wall having a cut out portion, blue flaps crease-hinged to the ends of the front and rear walls, a cover crease-hinged to the rear wall, a tuck element crease-hinged to the cover having a locking slot at each end thereof; a window-opening extending through portions of the rear wall, the cover, and the tuck element, and a sheet of flexible, transparent material covering said window-opening.

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