

Nov. 1, 1938.

E. B. WHITEHEAD

2,134,964

CONTAINER

Filed May 18, 1936

Fig. 1.

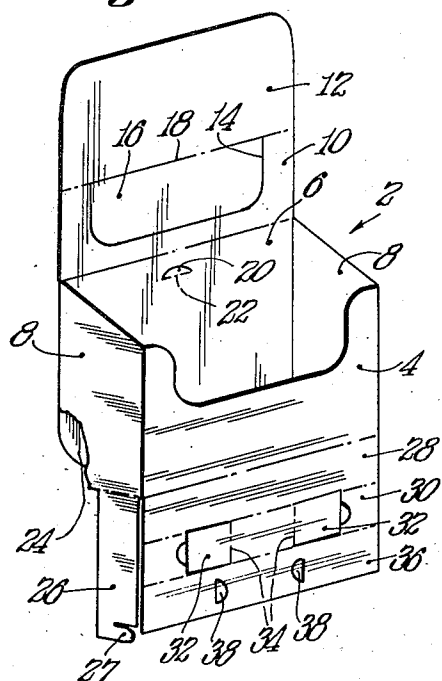


Fig. 2.

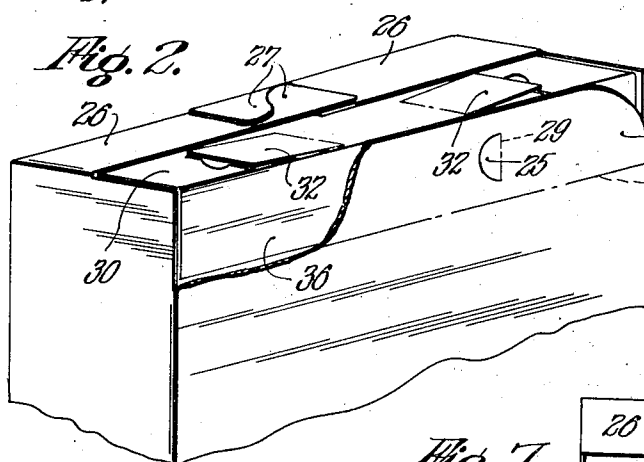
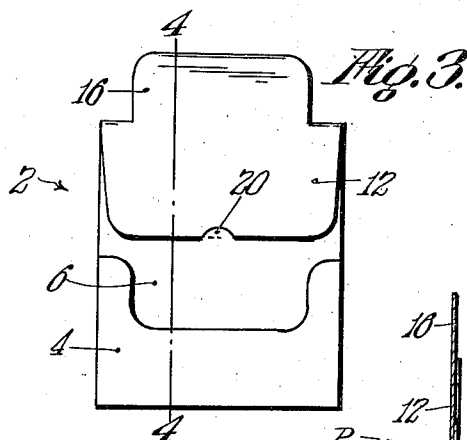


Fig. 5.

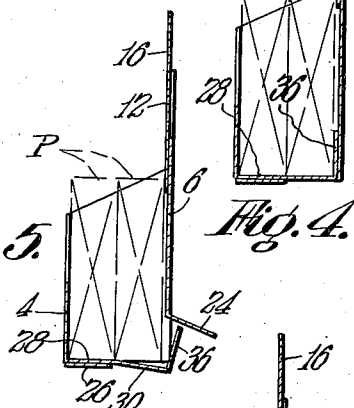


Fig. 4.

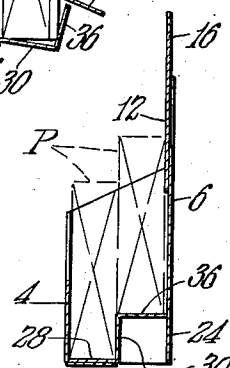
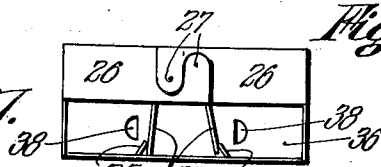


Fig. 6.

Fig. 7.



INVENTOR.
Earl B. Whitehead
BY
Carter C. Ross
ATTORNEY.

UNITED STATES PATENT OFFICE

2,134,964

CONTAINER

Earl B. Whitehead, Norwich, Conn., assignor to
Atlantic Carton Corporation, Norwich, Conn., a
corporation of Connecticut

Application May 18, 1936, Serial No. 80,250

2 Claims. (Cl. 206—45)

This invention relates to improvements in folding cartons and is directed more particularly to an improved foldable carton which is adapted to be set up into what is commonly called a tier-display position.

One object of the invention is the provision of a collapsible carton which may be easily and quickly folded either into a display position or a shipping position as may be desired. That is to say, the carton is formed from a blank which is adapted to be folded into a set up shipping position for carrying contents from place to place, or it may be just as easily set up into a display position wherein a certain part of the contents at least are supported by a tier or tiers in relatively raised position.

It is a further object of the invention to provide a carton which is simple in form so as to be inexpensive to manufacture and which is convenient to handle. The carton is not only compact so that it may be easily shipped without its contents, but it is so formed as to be readily set up into a safe and distinctive supporting or display position.

Various other objects and advantages of the invention will become more apparent after a reading of the following description and reference will be had therein to the accompanying drawing wherein:

Fig. 1 is a plan view of the carton of the invention in knock-down position;

Fig. 2 is a perspective view with parts cut away to show the bottom of the carton in shipping position;

Fig. 3 is a front elevational view of the carton in one set-up position;

Fig. 4 is a sectional view on the line 4—4 of Fig. 3;

Fig. 5 is a view similar to Fig. 4 to explain how the carton may be set up into tier-display position;

Fig. 6 is a sectional view similar to Figs. 4 and 5 showing the box in tier-display position; and

Fig. 7 is a small scale plan view of the bottom of the box shown in Fig. 6.

Referring now to the drawing more in detail, the invention will be fully described.

In Fig. 1 there is shown a blank 2 for forming the carton of the invention and as will be seen it includes a front wall 4 and a rear wall 6 hinged together by connecting side wall members 8. A box cover includes a top flap member 10 extending from the upper marginal edge of one of the walls, such as the rear wall 6, and a part 12 ex-

tending from the outer marginal edge of the member 10.

Preferably a folding line 18 extends between the parts 10 and 12 so that the part 12 may be folded down as shown in Fig. 3. The top flap 10 is provided with a continuous cut 14 which preferably extends from adjacent one end of the hinge 18 to the other as shown so as to form a tab part 16 so that when the member 12 is folded downwardly along the line 18, the part 16 may extend upwardly as shown in Fig. 3. These parts may carry various printed matter, for example, and be readily visible when the contents are in the box.

The rear wall 6 may be provided with a tab part 20 formed by a slot and bendable along the line 22. Then a lower marginal edge portion of the part 12 may be inserted behind the tab all as shown in Fig. 3 and thus held in place.

Hinged to the lower part of the same wall, that is the rear wall 6, as along a line 23, is a flap part 24 and this is provided with one or more foldable tabs 25 which are hinged on lines 29 as shown in Fig. 2. These are for a purpose which will presently appear and are arranged to be in the same plane as the tuck 24 or at an angle thereto.

Hingedly connected to the side wall members 8 are side flap members 26 provided with interlocking tab parts 27. These members 8 are adapted to be folded over into interlocking relation adjacent the bottom of the box as shown in Figs. 2 and 6.

Hinged to the lower part of the front wall 4 is a foldable bottom wall member which includes a plurality of parts now to be described. A main body part 28 is adjacent the wall 4 and is adapted to extend horizontally towards the opposite or rear wall.

A connecting part 30 is attached to the rear edge of the body 30 and this has one or more slits as shown forming one or more flaps 32. These flaps 32 are bendable on lines 34 and adapted to swing between a position in substantially the same plane as the rest of the part 30 and a position at an angle thereto.

Then to the outer marginal edge of member 30 is connected a tier-forming member 36. This is preferably of about the same length as the parts 30 and 28, which in turn are about the same length as the width of the front and rear walls. Preferably, also, the parts 28 and 36 are of such width that their total width is just slightly less than width of side members 8.

Preferably the member 36 is formed to have thumb-tabs 38, more or less similar to the tabs 55

25 in part 24. These tabs 38 may if desired be bent outwardly to engage tabs 25 and/or parts 32 or they may merely be used to insert the fingers into when setting up the box.

5 In shipping position, the various parts at the bottom of the box may assume the relation shown in Fig. 2 with the upper parts 10 and 12 folded downwardly to overlie the otherwise open upper end.

10 In one display position, the parts may be as shown in Fig. 4 with packages or the like P resting on members 28 and 30 with portion 36 adjacent the rear wall 6. Then when it is desired to raise the tier member 36 into position, the part 15 24 may be lifted slightly as indicated in Fig. 5 and the connection 30 moved into vertical position so as to raise the rear row of packages P into a position where they are supported as shown in Fig. 6.

20 While I have described the invention in great detail and with respect to a preferred form thereof, it is not desired to be limited thereto since many changes and modifications may be made therein without departing from the spirit and scope of the invention. What it is desired to 25 claim and secure by Letters Patents of the United States is:

1. A collapsible carton of the class described including vertical front and rear walls of a certain width connected by vertical side members 30 of a certain equal width, a horizontal bottom wall substantially equal in width to said front and rear walls extending rearwardly from the lower marginal edge of the front wall and being of less 35 width than said side members so as to provide an open space at the bottom rear of the carton, a connecting member hinged to the rear marginal edge of said bottom wall swingable between a horizontal space-closing position co-planar therewith and a vertical space-opening position 40 extending upwardly substantially at right angles thereto, a tier member hinged to the rear mar-

ginal edge of said connecting member for swinging between an upwardly-extending position adjacent the inside of the rear wall when said connecting member is in its said horizontal position and a horizontal position substantially at right 5 angles to the connecting member when the latter is in its said vertical position, a pair of flap members extending inwardly towards one another from the lower marginal edges of said side members and underlying said bottom wall, and engaging means associated with said flap members 10 holding the same in bottom wall supporting position.

2. A collapsible carton of the class described including vertical front and rear walls connected 15 by vertical side members of a certain equal width, a horizontal bottom wall substantially equal in width to said walls extending rearwardly from the lower marginal edge of the front wall and being of less width than said side members so as 20 to provide an open space at the bottom rear of the carton, a connecting member hinged to the rear marginal edge of said bottom wall swingable between a horizontal space-closing position extending upwardly substantially at right angles to 25 the bottom wall, a tier member hinged to the rear marginal edge of said connecting member for swinging between an upwardly-extending vertical position adjacent the inside of said rear wall when the connecting member is in its said horizontal position and a rearwardly-extending horizontal position substantially at right angles to the connecting member when the latter is in its said 30 vertical position, and a pair of spaced tabs hingedly associated with said connecting member 35 for swinging between a position co-planar therewith when the connecting member is in its said horizontal position and an outwardly-extending vertical position below said tier member when the connecting member is in its said vertical position. 40

EARL B. WHITEHEAD.