June 18, 1935. H. L. TRIMBLE 2,005,278

DISPLAY CONTAINER

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Fig. 1.

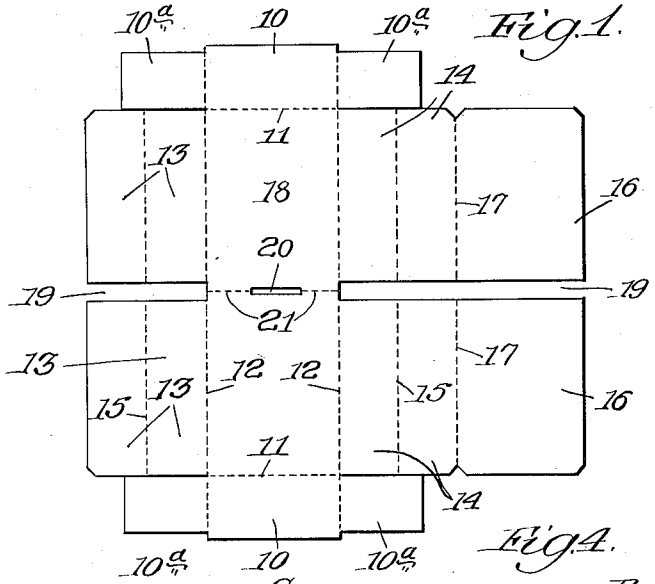


Fig. 2.

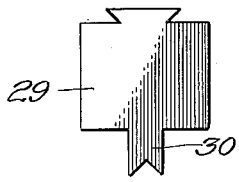


Fig. 3.

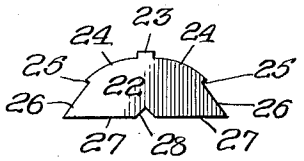


Fig. 4.

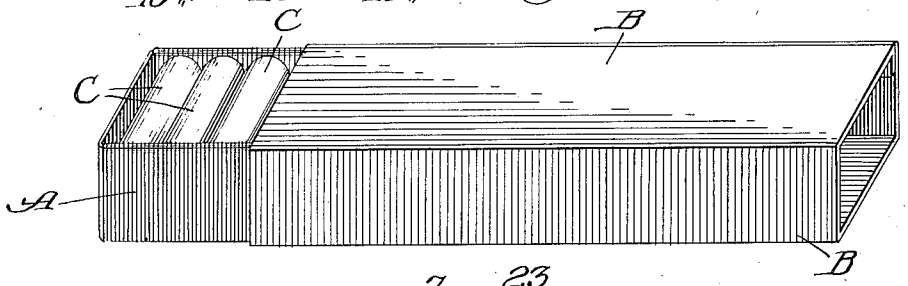


Fig. 5.

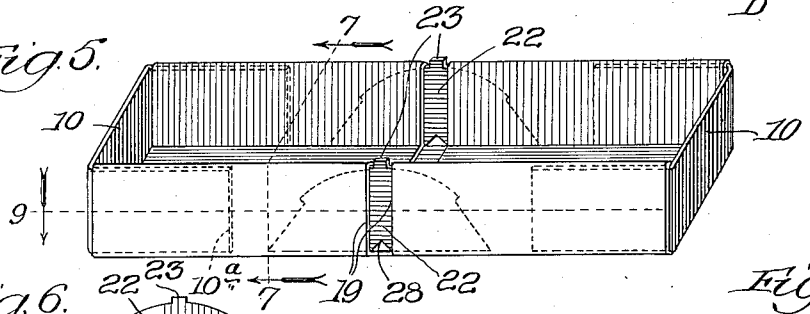


Fig. 6.

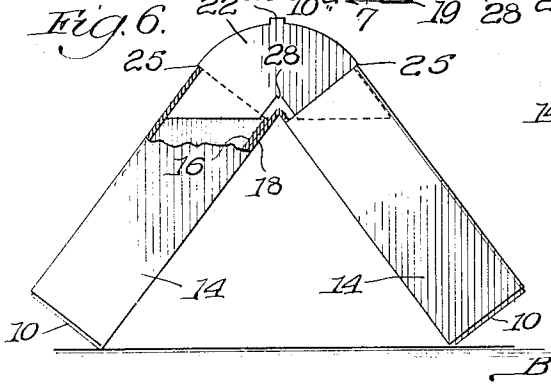
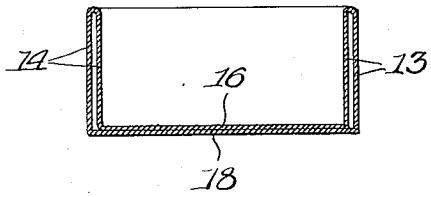


Fig. 7.



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Fig. 8.

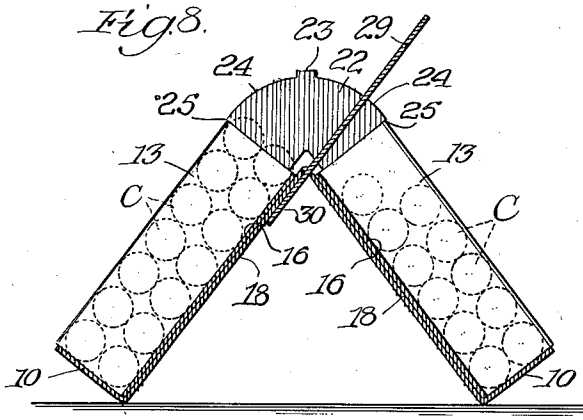


Fig. 10.

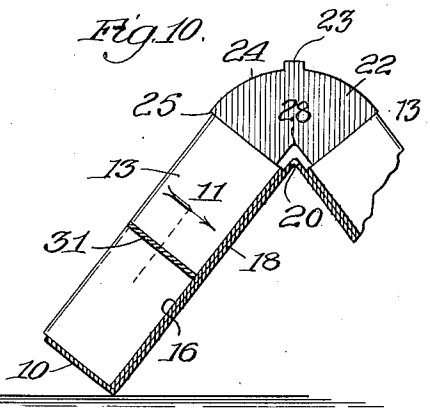


Fig. 9.

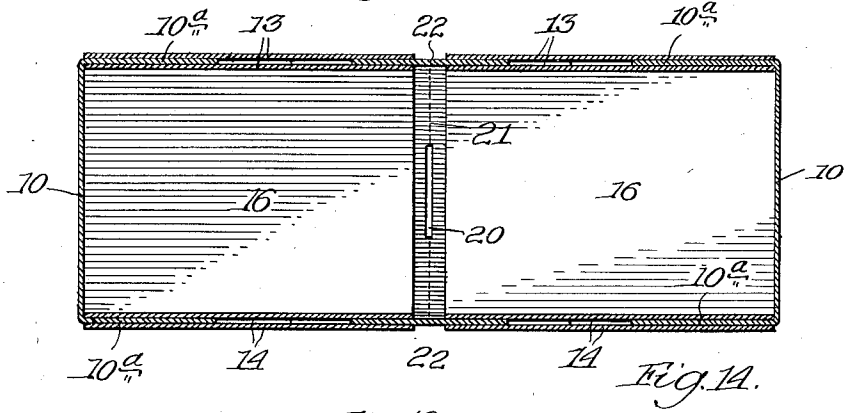


Fig. 14.

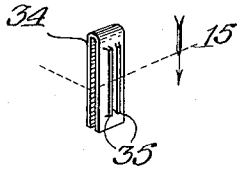


Fig. 11.

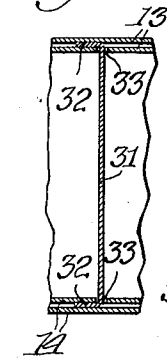


Fig. 12.

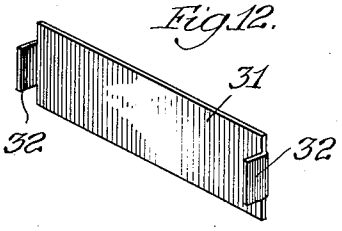


Fig. 13.

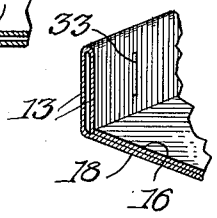
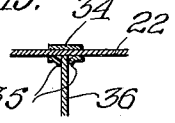


Fig. 15.



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Patented June 18, 1935 2,005,278

UNITED STATES PATENT OFFICE

2,005,278

DISPLAY CONTAINER

Homer L. Trimble, Cleveland Heights, Ohio

Application January 28, 1933, Serial No. 654,018

13 Claims. (Cl. 206—44)

This invention relates to a display container or box and is particularly useful in the shipment and display of articles which are to be sold from the counter, etc.

An object of the invention is to provide a box which serves as a container for shipment and which may be manipulated to provide a display receptacle for the articles shipped. A further object is to provide a foldable box which may be locked in an angular position to provide an attractive display of articles contained therein. Other specific objects and advantages will appear as the specification proceeds.

The invention is illustrated, in its preferred embodiment, by the accompanying drawings, in which—

Fig. 1 is a plan view of a blank from which a container, embodying my invention, is formed; Fig. 2, a plan view of a display member adapted to be attached to my improved box; Fig. 3, a releasable locking member employed in the preferred form of my container for supporting the box in folded or angular position; Fig. 4, a perspective view of the container inserted within a tubular shipping wrapper or sheath; Fig. 5, a perspective view of the inner box or container which embodies my invention; Fig. 6, a broken side view in elevation of the container in folded position; Fig. 7, a transverse sectional view, the section being taken as indicated at line 7 of Fig. 5; Fig. 8, a longitudinal sectional view of the box in raised or folded position; Fig. 9, a plan sectional view, the section being taken as indicated at line 9 of Fig. 5; Fig. 10, a broken sectional view of a modified form of the invention; Fig. 11, a broken sectional view, the section being taken as indicated at line 11 of Fig. 10; Fig. 12, a perspective view of the partition or shelf shown in Fig. 10; Fig. 13, a broken sectional view showing the slot in a side wall adapted to receive an end of the shelf shown in Fig. 12; Fig. 14, a perspective view of a card holder device adapted to be used with my container; and Fig. 15, a broken sectional view, the section being taken as indicated at line 15 of Fig. 14.

In the illustration given, the letter A indicates my improved receptacle or container; and the letter B, the sheath adapted to receive the container A, as shown in Fig. 4.

The sheath B is of well known construction. It is preferably formed of cardboard and is adapted to serve as an outer shipping wrapper or closure for the open container A.

The container A may be produced from a blank such as shown in Fig. 1. The end walls 10 are folded along dotted lines 11 to vertical position, and the lateral extensions 10a are turned at right angles so as to lie along the longitudinal dotted lines 12. The side walls 13 and 14 are then folded along lines 12 and brought to vertical position. Each of the side walls 13 and 14 are then folded over upon themselves along lines 15 to form double walls enclosing the end partitions 10a. In order to lock the double side walls 13 and 14 in folded position, the bottom strips 16, which are secured to the side wall 14, are folded along lines 17 so as to lie flat against the bottom wall 18. It will be noted that the side walls 13 and 14 and the false bottom walls 16 are provided with aligned slot-ways 19 so that when the box is assembled, as shown in Figs. 5 and 9, the side walls of the box are separated or divided centrally by the slots 19.

The bottom wall 18 of the box is preferably provided centrally and in line with the slots 19, with a transverse opening or slot 20. The slot 20 is in line with the dotted line of folding 21 which extends transversely across the middle portion of bottom wall 18.

With the form of box just described, it will be observed that the bottom wall of the box may be folded along line 21 and slot 20 to the position illustrated in Fig. 6. In this angular position, the articles carried by the box will be displayed at an attractive angle. Any suitable means for latching the parts of the box in this position may be employed. In the illustration given, I have shown two locking members 22 of the shape illustrated in Fig. 3. Each of the members 22 is adapted to be received between the double walls 14 and 15, as shown more clearly in Fig. 5, and to bridge or close the openings formed by slots 19. Each of the members 22 is provided at its top with a centering projection 23 of substantially the width of the slot 19. On each side of the centering projection 23 are curved shoulders 24 which terminate in locking notches 25. Below the notches 25 are outwardly extending wings 26 which meet the substantially straight bottom wall 27. The bottom wall 17 is provided centrally with a V-shaped recess 28. As shown more clearly in Fig. 5, the projections 23 engage the edges of the slot 19 and keep the members 22 centered with respect to the slots 19.

The display device or card 29 illustrated in Fig. 2, is provided with a depending leg 30 adapted to extend through the opening 20 of bottom wall 18. The card is preferably provided with advertising matter relating to the contents of the box. It may be carried in flat position on

the top of the articles for sale when the box is shipped.

In the operation of the container, when the package is received in the form illustrated in Fig. 4, the outer sheath B is first removed. The central portion of the container A is then raised so that the bottom wall is folded along line 21. When the box assumes the position shown in Fig. 6, the locking notches 25 of the members 23 engage the top edges of the side walls and secure the box portions in the angular position shown. It will be noted that the V-shaped recess 28 of the member 22 fits around the V edge formed by the folding of the box along line 21. When the box is in this position, the display member 29 may be placed in position by inserting the leg 30 through slot 20. The card may be inclined to the position shown in Fig. 8 where it conveniently sets forth the information or advertisement bearing on the articles on display. It will be noted that the depending leg 30 engages the bottom wall 18 of the container so as to hold the card in the desired position illustrated. If it is desired to return the box to its original position, the shoulders 24 of members 22 may be depressed to free the locking notches 25 from engagement with the top edges of the side walls and the rounded shoulder surfaces 24 will permit the box to fall to its initial horizontal position.

In the modification illustrated in Fig. 10, a partition or shelf 31 is provided for supporting a portion of the articles in the container. This relieves the end wall of the strain of supporting the entire weight of the articles to be vended. The shelf may be formed in any suitable way. In the illustration given, the cross strip 31 is provided with reduced ends 32 turned at right angles to the main body of the shelf. The inner wall of each side wall is provided with a vertical slot 33, as illustrated more clearly in Fig. 13, and the reduced ends 32 are extended therethrough. When the shelf is in position, the extensions 32 occupy the position between the double walls, shown in Fig. 11.

In the modification illustrated in Figs. 14 and 15, a metal member 34 is provided to support a display card upon the locking members 22. In the illustration given, the member 34 is a U-shaped piece provided with spaced flanges 35 struck from one side of the member and adapted to slidably engage a display card 36. The U-shaped member 34 may be placed around the projection 23 of the locking member 22 and clamped in tight-fitting relation thereto.

With the box construction illustrated, it will be observed that the slot 20, which is transversely aligned with the slots 19 in the side walls of the box, assists in the folding operation and causes the line of fold to accurately follow the slot-way 20 and in the vertical plane of the slot-ways 19.

The letter C indicates cylindrical packages of candy, etc. which, along with a variety of other articles, may be satisfactorily displayed in the container.

While, in the illustration given, I have shown a particular locking member for latching the angularly disposed compartments of the box in angular display position, it will be readily understood that other latching means may be employed for this purpose. The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be understood therefrom, but the appended claims should be construed as broadly as permissible, in view of the prior art.

I claim:

1. A vending box having double side walls and aligned slots in said side walls at an intermediate point, the bottom wall of the box being foldable transversely adjacent said aligned slots, and locking members slidably confined between said double walls and provided with means adapted to engage said walls and to lock said box in folded position.

2. A vending box having double side walls provided at an intermediate point with aligned slotways, said double walls being joined at their top, and locking strips received within said walls and equipped with locking shoulders adapted to engage the tops of said double walls, when the bottom wall of the box is folded to an angular position, to lock the box in the folded angular position.

3. A vending box having double side walls provided at an intermediate point with aligned slotways, said double walls being joined at their top, and locking strips received within said walls and equipped with locking shoulders adapted to engage the tops of said double walls, when the bottom wall of the box is folded to an angular position, to lock the box in the folded angular position, said strips being also provided with centering projections extending above said side walls.

4. A vending box having its sides separated at an intermediate point and its bottom wall adapted to be folded at the line of division of the said sides, said bottom wall being provided with a transverse opening at said line of folding, and a display card equipped with a depending leg adapted to extend through said transverse opening in the bottom wall and to engage a portion of the folded bottom wall.

5. A vending box having its side walls divided at an intermediate point and its bottom wall adapted to be folded at the line of division of said side walls, said bottom wall being provided with a transverse slot along said line of folding, means for locking said box in folded angular position, and a display card having a depending leg adapted to extend through said transverse opening in the bottom wall and to engage a portion of the bottom wall when the box is folded in angular position, said extension thus supporting the card at the same angle as that of the bottom wall.

6. A vending box having double side walls and aligned slots in said side walls at an intermediate point, the bottom wall of the box being foldable transversely adjacent said aligned slots, additional aligned slots on the inner of said double side walls, partitions having folded ends extending through said last mentioned slots and confined between said double walls, and locking members slidably confined between said double walls and provided with means adapted to engage said walls and to lock said box in folded position.

7. A vending box having double side walls provided at an intermediate point with aligned slotways and having also a double bottom wall, the upper of which is provided with a slot and the lower of which is foldable in alignment with the slotways of said double side walls, and means confined within said double side walls and extending into said side wall slotways for locking said box in folded angular position.

8. A vending box having double side and bottom walls, said side walls and the upper bottom wall being provided at an intermediate point with aligned slotways and said lower bottom wall being foldable in alignment with said slotways, and locking members slidably confined within said double walls and provided with means adapt-

ed to engage said walls and to lock said box in folded position.

9. A vending box having double side walls provided at an intermediate point with aligned slotways, the bottom wall of the box being foldable transversely adjacent said aligned slots, and locking means confined between said double walls and adapted to releasably lock said box in folded position.

10. A vending box having double side walls and aligned slots in said side walls at an intermediate point, the bottom wall of the box being foldable transversely adjacent said aligned slots, and at least one locking member confined between one pair of double walls and adapted to releasably lock said box in folded position.

11. A display box having opposite marginal walls parted to permit its bottom to be folded upwardly so as to provide reversely inclined containers for merchandise, and lock elements interposed between the parted wall sections and movable responsive to the folding of the box into position to lock the box in folded display position.

12. A display box tray having folded parted sides, a fillet lock piece having symmetrical ends adapted to be fitted into the fold in adjacent side sections to span the joint, the lock piece being shaped to rest flat on the tray bottom with a top tab interposed between the tray side sections and downwardly curved top edges terminating in lock shoulders and stop extensions, the bottom edges of the lock pieces being notched to receive the apex of the bent tray bottom which is adapted to press the lock pieces upwardly as the tray is bent until the shoulders and stop extensions engage the side walls and lock the tray in folded display position.

13. A display box having opposite marginal walls parted to permit its bottom to be folded upwardly so as to provide reversely inclined containers for merchandise, and lock elements secured to said side walls and adapted to extend between the parted wall sections, said elements being movably responsive to the folding of the box into position to automatically lock the box in folded display position.

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