Oct. 18, 1927. 1,645,807

G. W. GRANT

BOX

Filed April 12, 1923 2 Sheets-Sheet 1

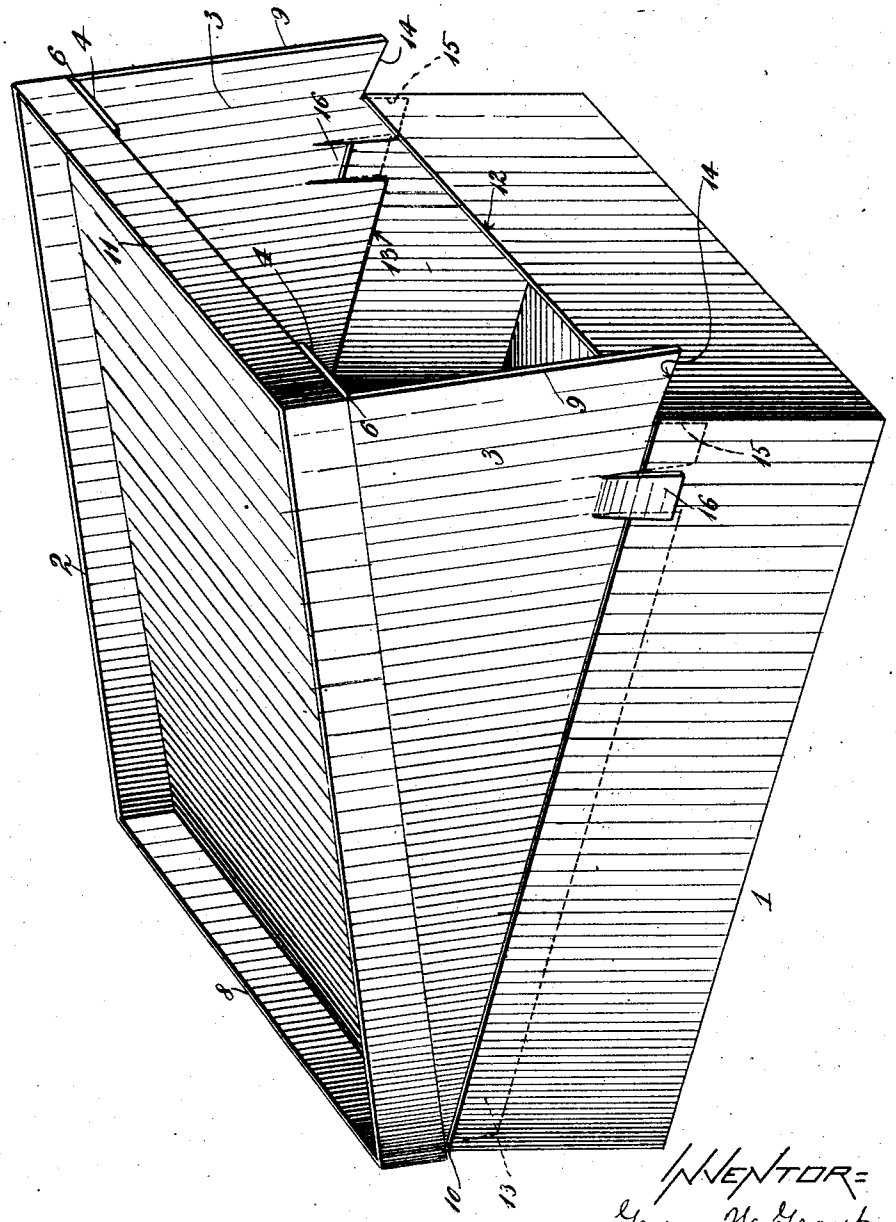


FIG. 1.

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Fig. 2.

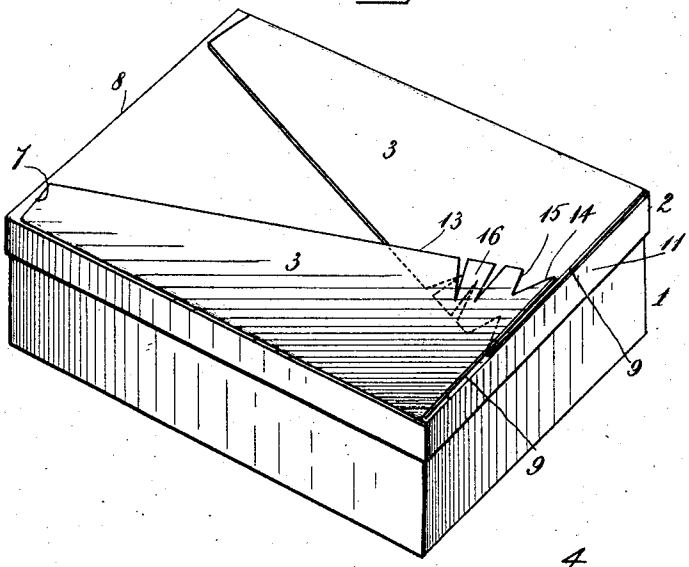


Fig. 3.

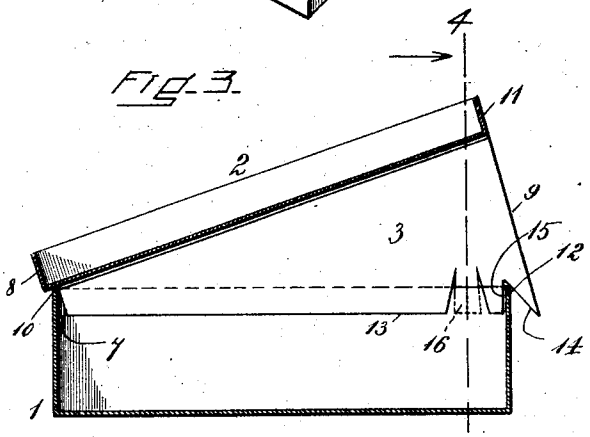
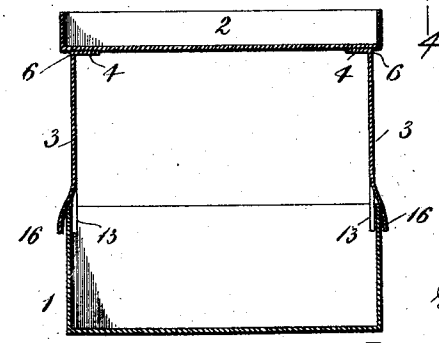


Fig. 4.



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Patented Oct. 18, 1927. 1,645,807

UNITED STATES PATENT OFFICE.

GEORGE W. GRANT, OF EVERETT, MASSACHUSETTS, ASSIGNOR TO LOVELL & COVEL CO., OF BOSTON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

BOX.

Application filed April 12, 1923. Serial No. 631,694.

The present invention relates to an improvement in boxes. It comprises what may be termed a combination shipping, display and dispensing box, for in accordance with the object of my invention it is my purpose to so equip an ordinary pasteboard shipping box having a body and cover that the goods may be shipped in it in the usual manner and afterward by a slight manipulation the cover inverted may be applied to the body of the box and act both as a cover for the box and also as a display tray in which a portion of the contents of the box may be placed and displayed while the remaining contents left in the body of the box may be dispensed therefrom through an opening left at the back.

The improved box is essentially adapted for use in connection with candy or other small wares.

The invention can best be seen and understood by reference to the drawings in which a type of box is shown illustrative of the invention and in which—

Figure 1 is a perspective of the box after being converted into its display and dispensing form.

Fig. 2 is a perspective of the box in form for shipping.

Fig. 3 is a vertical cross section of the box as shown in Fig. 1, and

Fig. 4 is a section on the line 4—4 of Fig. 3.

Referring to the drawings:—

1 represents the body of the box and 2 the cover. Both are of common type and form.

Attached to the top face of the cover are a pair of wings 3, 3. These wings are preferably made of the same material as that of which the box and cover are made. Each of the wings is fastened to the top surface of the box cover by means of a turned strip or piece 4 glued or otherwise securely fastened thereto. The wings proper and strips 4 are preferably integral, being struck from the same blank and the wings are movable relatively to their retaining strips along edges 6 thereof by reason of the flexibility of the material. The strips 4 are attached to the top surface of the cover so that the edges 6 thereof will lie parallel with and just inwardly removed from the side edges of the cover or, in other words, in positions where the wings when turned outwardly vertical to the top surface of the cover will occupy positions substantially in continuation of the sides of the cover but preferably just inwardly removed from the plane occupied by such sides. Thus fastened and arranged, the wings will overlap when folded and may be folded to lie flat on the top surface of the box cover when not in use. They accordingly do not interfere in any way with the normal use of the box as a shipping box. Both the wings 3 are alike in size and form. In length the wings are substantially equal to the length of the box cover, one end 7 of each wing, hereinafter referred to as its fore end, being slightly removed from the adjacent fore end 8 of the cover. The wings are angular in form, each wing deepening from its fore end 7 to its rear end 9. The wings present also various edges and parts which perform special functions in accomplishing the conversion of the box into a display and dispensing box, and can best be understood in the light of the box thus converted.

In the first place it will be observed, especially by reference to Fig. 1, that the cover 2 in the converted form of the box is inverted whereby it may form a display tray. The fore end 8 of the cover is made to rest upon and overlap very slightly the top edge 10 at the one or fore end of the box body. From this point the cover is inclined upwardly, assuming the natural incline of a display tray. Thus positioned, the rear end 11 of the cover will be raised appreciably above the top edge 12 to the opposite or rear end of the box body leaving an open space of appreciable size through which access may be had from the rear to the interior of the box body.

When thus positioned the cover is held securely in place by the respective wings 3. Turned outwardly these wings will lie substantially in planes parallel with the sides of the body of the box lapping by the sides inside the box body by portions 13. Thus extending the wings will close the spaces along the sides of the box between the cover and the sides of the box, the wings being substantially a continuation of the sides. Thus the box is entirely covered and the contents of the box concealed except for the opening in the back through which the contents of the box may be dispensed.

Acting as braces, the wings will support the raised rear end of the cover by resting

upon the top edge 12 at the rear end of the box body. Each of the wings preferably has at its rear top end a V-shaped cut with meeting edges 14, 15, respectively, and it is the edges 14 of these cuts in the wings at the points of the V which rest upon the edge 12 of the box body.

Endwise displacement of the cover is prevented by the end bearing against the opposite ends of the box body of those portions 13 of the wings overlapping the sides and lying within the box body. Of these portions the fore end 7 thereof will bear against the inside of the fore end of the box body and at the rear the ends 15 thereof will bear against the inside of the opposite or rear end of the box body.

Lateral displacement of the wings is prevented in one direction by the lateral bearing of the portions 13 of the wings against the adjacent sides of the box body on the inside thereof and in an opposite direction by clips 16 cut from the wings which overlap said sides and bear against the same on the outside thereof.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States:—

1. A box having a body and associated therewith a convertible display member with foldable wings attached thereto along the sides thereof and removed from the fore end of said member whereby said member may be disposed at the fore end thereof beyond said wings to rest upon the top edge of the fore end of said body with extension in an inclined direction upwardly over said body leaving an opening at the back with entrance therethrough into the interior of said body and with the wings unfolded then extending downwardly to co-operate with the sides of said body substantially in continuation thereof and with extension also to bear upon the top edge to the rear end of said body.

2. A box having a body and associated therewith a tray-like display member disposed to rest along its front end upon the top edge of the fore end of said body with inclination upwardly over said body, wings attached to the display member extending downwardly to rest upon the top edge of the rear end of said body for supporting the display member in its inclined position, and co-operating also with the sides of said body in substantial continuation thereof with downward extension inside said body lapping by its sides, and with end bearing against the forward and rear ends of said body for preventing endwise displacement of the display member, and means for preventing lateral displacement of said wings when co-operating with said body as aforesaid.

3. A box having a body and a flanged cover convertible to form a display member when inverted and disposed to rest along its front end upon the front edge of the fore end of said body with inclination upwardly over said body, wings attached to the top surface of the cover along the respective sides thereof and normally foldable inwardly over said cover to rest thereon, said wings when unfolded, with the cover inverted to occupy its inclined position as aforesaid, extending downwardly to rest upon the top edge of the rear end of said body for supporting the display member in its inclined position, and co-operating also with the sides of said body in substantial continuation thereof with downward extension inside said body lapping by its sides, and with end bearing against the forward and rear ends of said body for preventing endwise displacement of the display member, and means for preventing lateral displacement of said wings when unfolded and co-operating with said body as aforesaid.

GEORGE W. GRANT.