J. B. SINGER & A. B. LEVY.

COMBINED CARTON AND DISPLAY DEVICE.

APPLICATION FILED NOV. 15, 1917.

1,294,312. Patented Feb. 11, 1919.

Fig. 1.

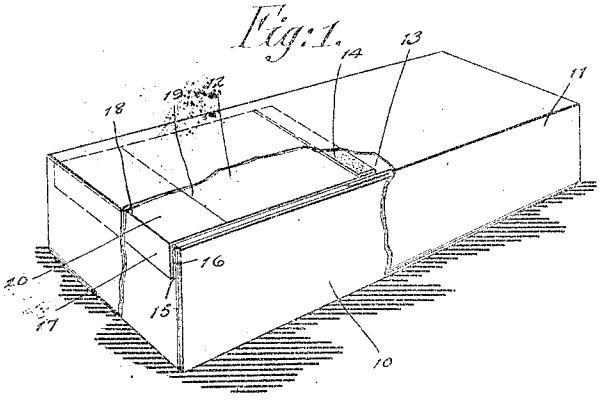


Fig. 2.

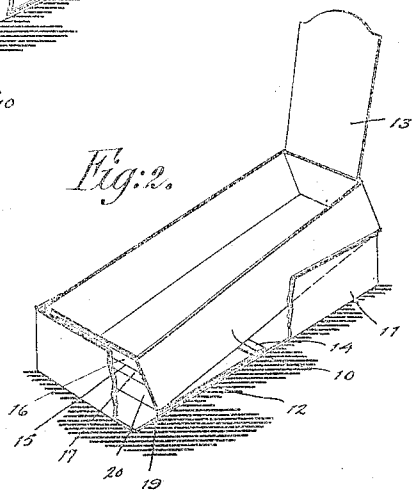


Fig. 3.

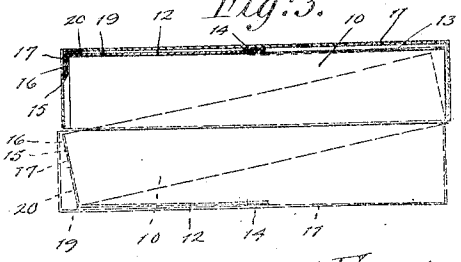


Fig. 4.

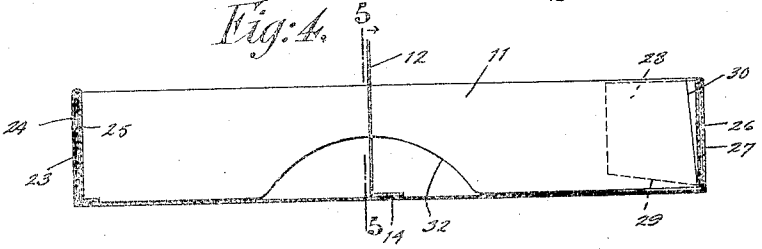


Fig. 5.

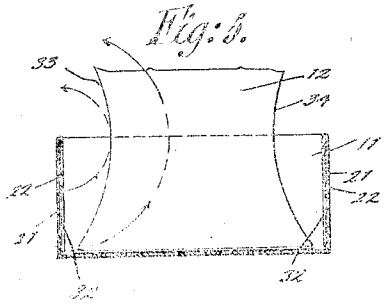


Fig. 6.

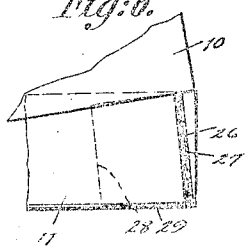
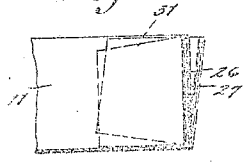


Fig. 7.



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JOSEPH B. SINGER, OF BROOKLYN, AND ARTHUR B. LEVY, OF NEW YORK, N. Y.

COMBINED CARTON AND DISPLAY DEVICE.

1,294,312. Specification of Letters Patent. Patented Feb. 11, 1919.

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To all whom it may concern:

Be it known, that we, JOSEPH B. SINGER and ARTHUR B. LEVY, citizens of the United States, the former a resident of the borough of Brooklyn, county of Kings, city and State of New York, and the latter a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Combined Cartons and Display Devices, of which the following is a specification.

The present invention relates to improvements in combined carton and display devices, and has for an object the production of such a device which in addition to forming a container for goods may be readily set up into display position without the necessity for extraneous means of support. Another object is to provide such a device which when not opened into display position, will have the appearance of an ordinary telescoping box and will automatically assume its proper display position upon being opened, compelling the correct setting up of the same. Other objects of the present disclosed embodiments of our invention are simplicity in the setting up of the device, improved extension means for supporting and enabling opening and closing of the container, and a device which in addition to its other functions, will afford greater rigidity and will give added protection to the contents.

With these and other objects in view, embodiments of our invention are shown in the accompanying drawings, and these embodiments will be hereinafter more fully described with reference thereto, and the invention will be finally pointed out in the claims.

In the accompanying drawings,

Figure 1 is a perspective view of a carton formed according to one embodiment of the invention, showing the same in closed position, and with parts broken away;

Fig. 2 is a similar view showing the device in open or display position;

Fig. 3 is a longitudinal sectional view showing the device closed (full lines), and in open or display position (broken lines);

Fig. 4 is a longitudinal sectional view of the cover portion of a slightly modified form of construction showing the hinged member raised and with parts broken away;

Fig. 5 is a sectional view along the line 5—5 of Fig. 4;

Fig. 6 is a fragmentary sectional view showing the end of the cover portion and the container portion resting thereon in display position; and

Fig. 7 is a similar view of the end of the cover, of a slightly modified form of construction.

Similar reference characters indicate corresponding parts throughout the several figures of the drawings.

Referring to the drawings, the embodiment shown by way of example therein, comprises a container portion 10, a cover portion 11, and a hinged portion 12, connecting the container portion and the cover portion together. The container and the cover portions may be of any suitable construction and telescopically engage each other. A display flap 13 is provided at one end of the container portion which may contain advertising matter with reference to the goods contained in the container, as is usual with such devices.

The hinged portion or member 12, is secured at one end by a hinged flap 14 substantially centrally of the interior of the cover, being either secured by pasting, as shown, staples, or other suitable means. Considering the device in its closed position (Figs. 1 and 3) the other end is folded upon itself and is secured at the upper portion of the end of the container portion, there being a hinge 15 between the secured portion 16 and the unsecured portion 17, and a hinge 18 between the latter portion and the remainder of the member, which is also hinged intermediately as at 19, providing a portion 20 adjacent the portion 17, which is of such width, that together with the portions 16 and 17, will be substantially equal to the height of the end of the container, as clearly indicated in Figs. 2 and 3 showing the device in open or display position.

In operation, the cover 11 is lifted in the usual manner from the container. The hinge member 12 restricts the cover to an arcuate movement, the lifting force exerted upon the cover automatically swinging the same about the end of the container, whereupon the cover assumes an inverted position. The hinged member now carries the container into the cover, so that one end rests

on the corner formed by the hinge 19 upon the base of the cover, and the other end rests upon the upper edge of the end of the cover. The container is thus opened and automatically assumes its display position.

Considering the device in its open or display position, the length of the major portion of the hinged member, that is, that portion between the hinged flap 14 and the hinge 19, and the positioning of the hinge, is such, that when the container is disposed diagonally in the open side of the cover, with one end resting upon the upper edge of one end of the cover and the other end resting upon the base of the cover, it will extend away from the hinged flap 14 to the corner of the container, while in the closed position of the device, it will permit of the portion 20 lying in the same plane therewith upon the base of the cover.

In Figs. 4 to 6, we have shown a slightly modified form of construction. In this form, the side portions of the cover 11 are formed of two folds 21 and 22, the inner fold 22 being bent downwardly and having an extension flap 23 at one end which is held within the folds 24 and 25 of the end of the box. The other end of the cover is also formed of two folds 26 and 27, and at the ends of the inner fold 26 there are provided extension flaps 28 which are inserted between the folds 21 and 22 of the sides. The upper edge of the flaps 28 are at substantially right angles to the end of the cover, while the lower edges 29 are cut diagonally. The end of the fold 22 of the sides is cut similarly, as at 30, so that the end of the box may be hingedly moved into inclined position as indicated in Fig. 6, the upper and lower edges of the flap 28 limiting the movement and positioning the end respectively in straight or inclined position. The angle of inclination is preferably such, that when the container 10 rests thereon, as in Fig. 6, it will be at substantially right angles thereto, thereby affording a more substantial support for the container and at the same time engaging the container at a point farther inwardly than is the case with a rigid end.

In Fig. 7, we have shown a slight modification in which the upper edge 31 of the flap 28 is cut diagonally, the end of the fold 22 being straight. This permits of the end swinging outwardly and facilitates opening and closing of the device. It also insures a snug fitting of the cover and container, and in display position of the device the end when in its inner position shown in full lines forms a support for the container.

Referring again to Figs. 4 and 5, the lower edges of the folds 22 of the side portions of the cover are provided with an intermediate arcuate cut out portion 32. The edges 33 and 34 of the hinged member 12 are cut inwardly to such extent, that the fold 22 may be swung free of the hinged member, as indicated in Fig. 5. This facilitates setting up of the devices. It will be understood that in making up the devices, the cover is connected to the container by means of the hinged member, while the same are flat. They are thereupon folded into shape.

With our improvements, a combined carton and display device is provided, which in closed position has the appearance of an ordinary telescoping box. It may be opened easily and automatically assumes its display position, compelling its proper setting up. No seal is required, as the hinged member retains the cover in place. In closed position, the hinged member coöperates with the folded down display portion 13 and the cover to form a double thickness protection over the entire upper surface of the contents.

We have illustrated and described preferred and satisfactory embodiments of our invention, but it is obvious that changes may be made therein within the spirit and scope thereof, as defined in the appended claims.

We claim:

1. An improved display carton comprising a container portion, a cover portion, and a hinged member connecting said container portion to said cover portion, said hinged member being connected at one end to the end of said container portion and at the other end to the interior of the base of said cover portion intermediately its ends, said container portion adapted to rest within said cover portion in display position with one end thereof resting upon the edge of one end of said cover portion.

2. An improved display carton comprising a container portion, a cover portion adapted to telescopically engage the same, and a hinged member connecting said container portion to said cover portion, said cover portion adapted to have its inner side moved into engagement with the bottom of said container portion to constitute a support therefor, said cover and container portions adapted to completely inclose said hinged member in the closed position thereof, said container portion adapted to rest within said cover portion in display position with one end thereof resting at one end of said cover portion.

3. An improved display carton comprising a container portion, a cover portion, and a hinged member connecting said container portion and said cover portion, said hinged member being connected at one end to the upper portion of one end of said container portion, and at the other end to the interior of said cover portion intermediately its ends, said hinged member being provided with two folds adapted to lie upon the interior of the cover portion at one side of the point of attachment of the hinged member

in the closed position of the device, one of said folds being adjacent the said point of attachment of the hinged member, the other of said folds being adjacent the end of the box, said last mentioned fold adapted to engage the end of the container portion in the open display position of the device, said other portion adapted to engage the interior of said cover portion at the other side of said point of attachment.

4. An improved display carton comprising a container portion, a cover portion, and a hinged member connecting said container portion to said cover portion, said hinged member being connected at one end to the end of said container portion, and at the other end to the interior of said cover portion intermediate its ends, the sides of said cover portion being formed of an outer fold and an inner fold folded downwardly thereon, said inner fold being provided with a cut out portion adapted to permit folding thereof without interference with said hinged member.

5. An improved display carton comprising a container portion, a cover portion, and a hinged member connecting said container portion to said cover portion, said hinged member being connected at one end to the end of said container portion, and at the other end to the interior of said cover portion intermediate its ends, the sides of said cover portion being formed of an outer fold and an inner fold folded downwardly thereon, said inner fold and said hinged member being provided respectively with cut out portions adapted to coöperate to permit folding of said inner fold without interference with said hinged member.

6. An improved display carton comprising a container portion, a cover portion, and a hinged member connecting said container portion to said cover portion, said hinged member adapted to guide the movement of said cover portion into closed and display positions, one end of said cover portion being hinged at its lower edge and adapted to have its upper edge moved relatively to said hinged lower edge and means for limiting the inward and outward movement thereof, said end in its inwardly moved position adapted to engage the said container portion at a point substantially removed from its end to form a support therefor.

7. An improved display carton comprising a container portion, a cover portion, and a hinged member connecting said container portion and said cover portion, said hinged member adapted to guide the movement of said cover portion into closed and display positions, the sides of said cover portion being formed of an outer fold and an inner fold, one end of said cover portion being hinged at its lower edge and provided with side flaps slidably engaged between the folds of said side portions, one edge of said flaps being inclined to permit of inward and outward movement of said end, said end in its outer position being substantially at right angles to the bottom of said cover portion and in its inner position adapted to engage and support said container portion in the display position thereof.

8. An improved display carton comprising a container portion, a cover portion, and a hinged member connecting said container portion and said cover portion, said hinged member adapted to guide the movement of said cover portion into closed and display positions, the sides of said cover portion being formed of an outer fold and an inner fold, one end of said cover portion being hinged at its lower edge and provided with side flaps slidably engaged between the folds of said side portions, the lower edge of said flaps and the end of the inner fold of said sides being inclined to permit of the inward and outward movement of said end, said end in its outer position being substantially at a right angle to the bottom of said cover portion, and in its inner position adapted to engage and support said container portion in the display position thereof.

In testimony that we claim the foregoing as our invention, we have signed our names in presence of two subscribing witnesses.

JOSEPH B. SINGER.
ARTHUR B. LEVY.

Witnesses:
JACOB GOLDMAN,
MAE WEINBERG.