Oct. 20, 1931. S. G. SILBERSTEIN 1,827,803

DISPLAY DEVICE

Filed Aug. 14, 1930

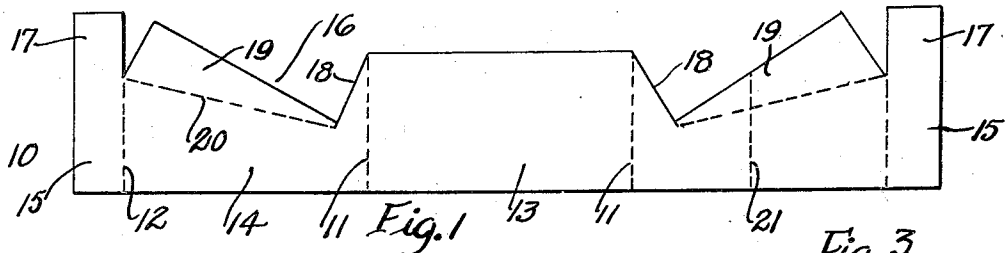


Fig. 1

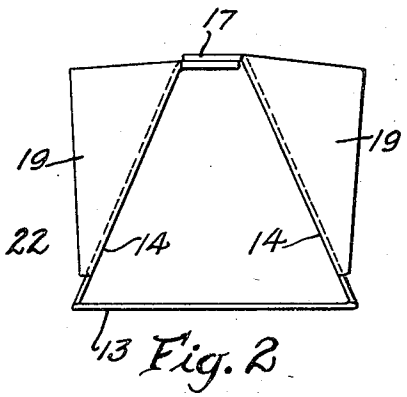


Fig. 2

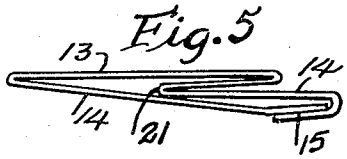


Fig. 5

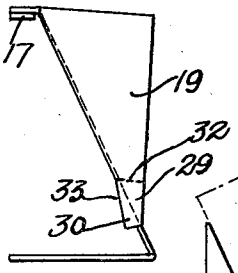


Fig. 8

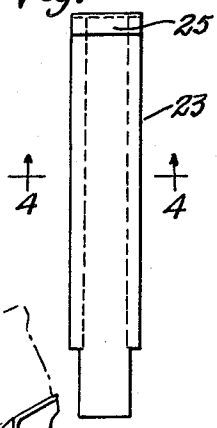


Fig. 3

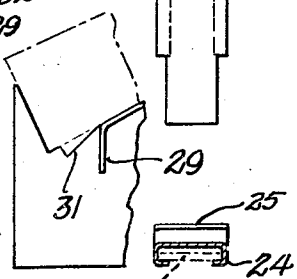


Fig. 9

Fig. 4

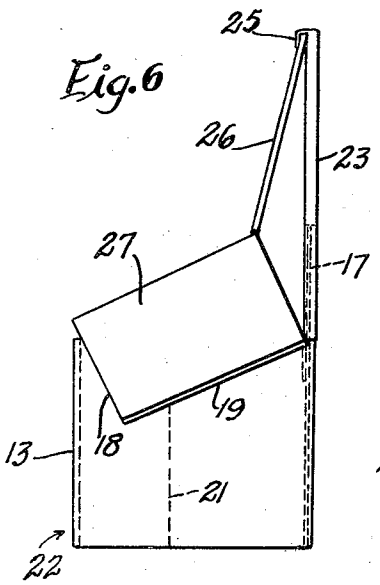


Fig. 6

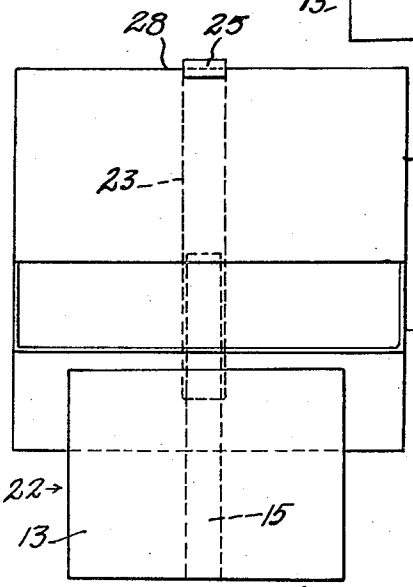


Fig. 7

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UNITED STATES PATENT OFFICE

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DISPLAY DEVICE

Application filed August 14, 1930. Serial No. 475,148.

This invention relates to cardboard display devices for supporting boxes containing cigars or any other articles.

One object of the invention is to provide an improved collapsible display device for supporting a box.

Another object of the invention is to provide a display device having improved means for holding open the cover of a box supported on the device.

A further object of the invention is to provide a display device of the type mentioned having comparatively few and simple parts and which is inexpensive to manufacture and assemble, compact and convenient to ship, easy to set up, and rugged and reliable in use.

Other objects and advantages of the invention will become apparent as the specification proceeds.

With the aforesaid objects in view, the invention consists in the novel combinations and arrangements of parts hereinafter described in their preferred embodiments, pointed out in the subjoined claims, and illustrated on the annexed drawings, wherein like parts are designated by the same reference characters throughout the several views.

In the drawings:

Figure 1 is a plan view of a blank of which the base of the device is constructed.

Fig. 2 is a top plan view of said base in set up position.

Fig. 3 is a view in front elevation of a box cover holding member.

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

Fig. 5 is a bottom view of the base in collapsed position.

Fig. 6 is a view in side elevation of the complete display device supporting a box in open position thereof.

Fig. 7 is a view in front elevation thereof.

Fig. 8 is a fragmentary plan view of the base showing a modification of a flap structure thereof.

Fig. 9 is a fragmentary view in side elevation thereof, showing the flap structure in assembled position.

The advantages of the invention as here outlined are best realized when all of its features and instrumentalities are combined in one and the same structure, but, useful devices may be produced embodying less than the whole.

It will be obvious to those skilled in the art to which this invention appertains, that the same may be incorporated in several different constructions. The accompanying drawings, therefore, are submitted merely as showing the preferred exemplification of the invention.

Referring in detail to the drawings, 10 denotes a blank of which the base of the display device may be constructed. This blank may be made of cardboard or any other suitable material within the principle of the invention. The blank has a plurality of vertical score lines 11 and 12 defining a front wall section 13, side walls 14 and end flap sections 15, though the latter may be considered to constitute collectively a rear wall structure.

The end flap sections 15 may be higher than the front wall section 13, and the side wall sections 14 may be recessed at 16. These recesses may be of such a character as to form upward projecting tongues 17 on the flap sections 15. Adjacent to the section 13 may be inclined edge portions 18. Flaps 19 may also be provided, if desired, by score lines 20 extending preferably at an acute angle with the horizontal and downward toward the front wall section 13. If the flaps 19 be omitted, the lines 20 would define the upper edges of the side wall sections 14, which, in fact, they do as will be apparent hereinafter. Also formed on one of the side wall sections 14 may be a vertical score line 21.

In Fig. 2 is shown the base 22 of the display device, the front and side walls 13, and end flaps 15 with their upward projecting tongues 17 lying in vertical planes, and the side walls converging toward the rear, the entire arrangement being similar to a trapezoid.

The said flaps 15 overlap or lie flat against each other, and may be detachably or permanently secured together by mechanical fasteners or by adhesive in any well known manner. The flaps 19 may lie in a horizontal plane.

This base 22 may be readily collapsed into

the position of Fig. 5, one of the side walls being bent upon the score line 21.

Adapted to be removably slidingly engaged with the tongues 17 is a channeled element 23 which is made of any suitable stiff material preferably metal. This element may have longitudinally extending flanges 24 and adapted to receive and engage the said tongues 17. In this manner the said element may hold together the flaps 15, or the latter may be otherwise interengaged as above stated. At the upper end of said element is a downward extending hook 25 to detachably engage a cover 26 of a box 27.

The said box 27 which may be of any suitable type, shape, or construction, may be made of cardboard or of the usual wood structure as in the case of cigar boxes. The bottom of the box is rested on the edges presented by the crease lines 20, and the flaps 19 may afford additional support to the box especially due to the resilience of the paper which may be quite heavy. The front wall of the box may rest against the edges 18, and thus the box is held in an inclined position and adequately supported by the trapezoidal base. As the front wall of the latter is large, a well distributed support is afforded, with economy of material, and the box cannot be tipped endwise. As the element 23 is brought down along flaps 17, the hook 25 is engaged with the upper edge portion 28 of the box cover holding it open and in display position. If the display device is to be collapsed, the box 27 is easily removed, and then the element 23 is disengaged after which the base may be collapsed as in Fig. 5.

In Figs. 8 and 9 is shown a modification of the invention in which the flaps 19*a* may have movable supporting flaplets 29 at the ends thereof adjacent to the front wall of the device. These flaplets may have their inner edge portions 30 cut out of the side walls of the device as shown at 31 to afford sufficient abutment against the side walls. The score lines 32 of the flaplets may be so arranged that the edges 33 of the flaplets abut the side walls in such a manner as to be retained in downward extending position due to the inclination or convergence of said side walls.

It will be appreciated that various changes and modifications may be made in the device as shown in the drawings, and that the same is submitted in an illustrative and not in a limiting sense, the scope of the invention being defined in the following claims.

I claim:

1. A cardboard display device for supporting boxes having covers thereon, said device including a continuous wall structure having rear upright end flaps which are adapted for interengagement, said end flaps having vertical portions projecting from the upper edges thereof, and a member slidably engaged with said projections, said member having means to engage the cover of the box and hold it open.

2. A display device for boxes having covers, said device including a wall structure the end portions of which are at the rear of the device, said end portions being secured together and having overlapping upward projecting tongues, and an element having one end detachably engaged with both of said tongues and having means at other end thereof removably engaged with the cover of a box suported on said wall to hold the cover open.

3. A display device consisting of cardboard and formed of a blank having a plurality of substantially parallel score lines forming end flaps and intermediate sections, all foldable into a continuous polygonal wall structure to support a box thereon, and with the said end flaps lying flat against each other, said end flaps having upward proejcting tongues similarly disposed, and a metallic channel member slidably engaging said tongues for suport of the member, and whereby the end flaps are held together, said member having a downwardly bent portion to engage an upper edge of the cover of the box for holding it open.

4. A cardboard display device for supporting a box, said device including a one piece continuous wall structure including a front and side walls, and portions uniting at the rear to form a rear wall, and means at the rear projecting upward to support the cover including overlapping upward extending integral projections from said portions, said projections being secured together.

5. A cardboard display device including a continuous wall structure comprising a front wall and side walls converging toward the rear of the device, said side walls being downwardly recessed at the upper edges thereof at an acute angle with the horizontal to support a box thereon at an inclination, said side walls having flaps extending along said recesses to afford additional support for the box, said flaps having end tongue portions adjacent to the front of device, said tongue portions being downwardly folded to abut the side walls and support said flaps, the fold lines of said tongue portions being formed at acute angles to said side walls, the tongue portions being retained in downward extending position due to the convergence of said side walls.

In testimony wherof I affix my signature.

SYDNEY G. SILBERSTEIN.