Sept. 16, 1930. G. E. SCRUBY ET AL 1,776,134

FOLDING BOX

Filed Sept. 22, 1928 2 Sheets-Sheet 1

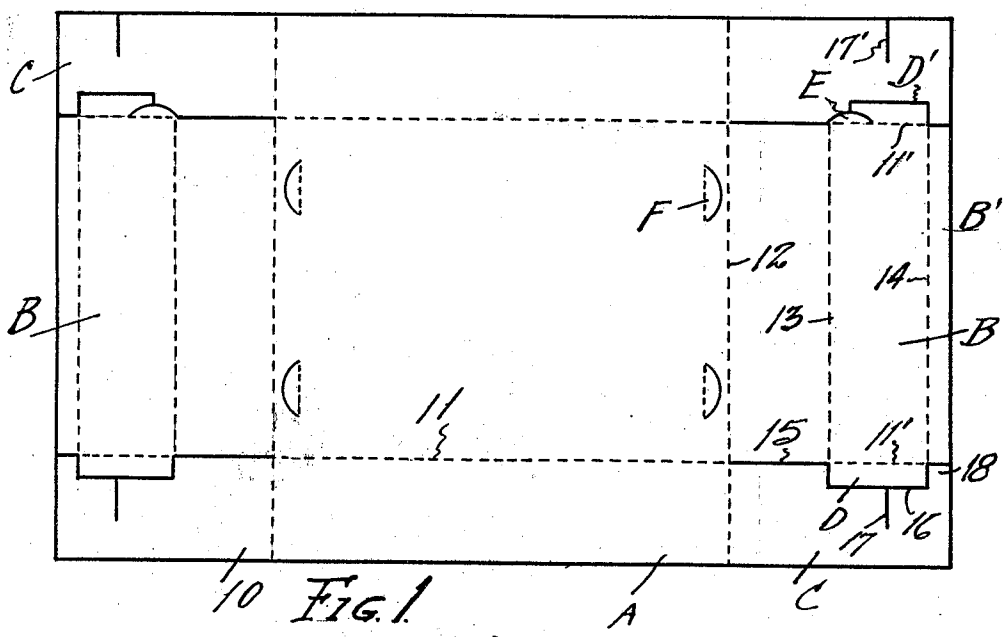


FIG. 1

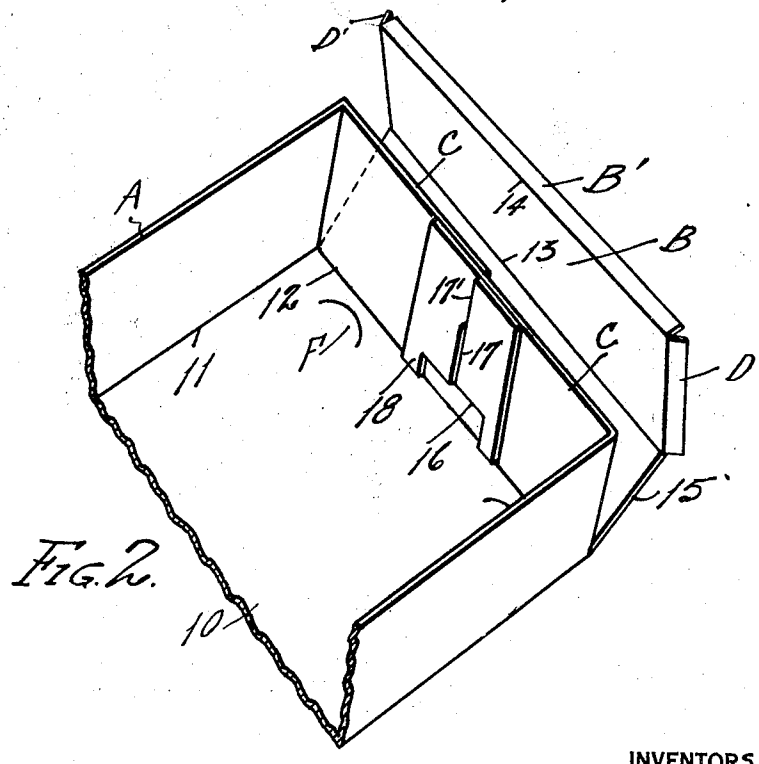


FIG. 2.

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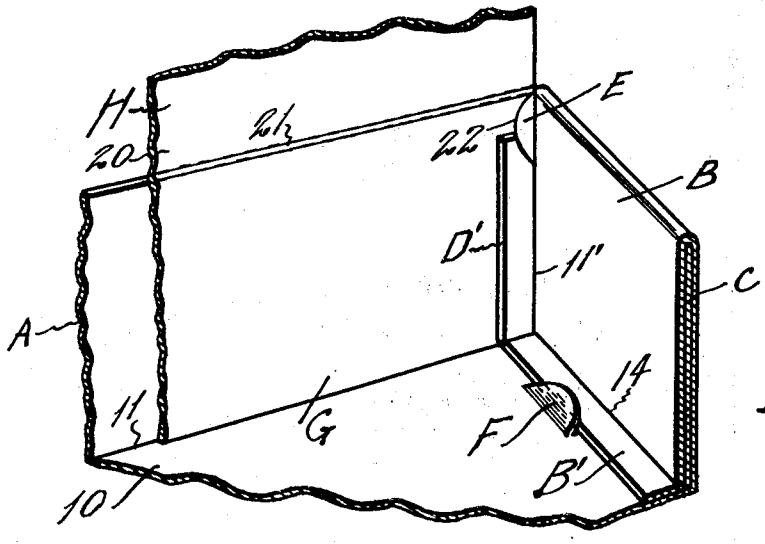


FIG. 3.

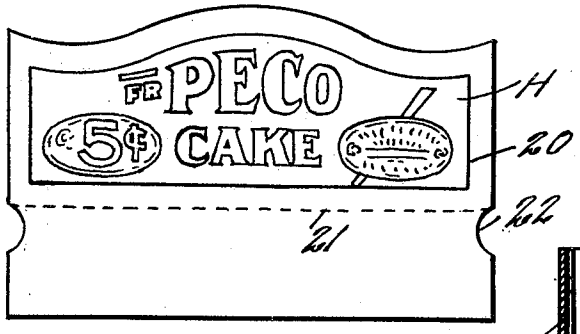


FIG. 4.

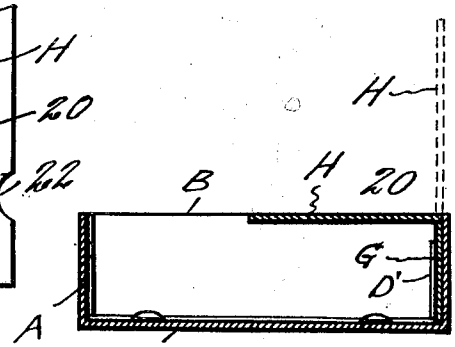


FIG. 6.

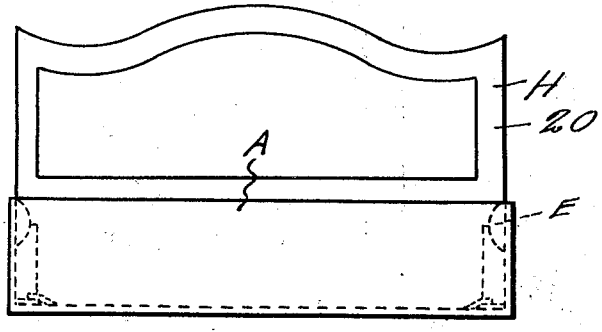


FIG. 5.

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UNITED STATES PATENT OFFICE

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FOLDING BOX

Application filed September 22, 1928. Serial No. 307,687.

This invention relates to new and useful improvements in folding boxes.

One object of the invention is to provide a box so arranged as to permit a display card to be removably inserted therein, so that if the merchant does not desire to use the card, the latter may be removed without tearing or destroying the pleasing appearance of the box.

Another object of the invention is to provide a display card made separate from the box, thus making a saving in manufacture, and also to form the card with a locking device whereby it may be secured in the box.

Still another object of the invention is to provide a box which may be folded up from a flat sheet and fastened in its folded form without the use of glue, wire or other added fastenings.

A further object of the invention is to provide a folding box wherein a minimum of material is used to gain a maximum in stability in the class of box produced, thus making for economy, reinforced corners and the elimination of excessive folds and bulkiness.

A construction designed to carry out the invention will be hereinafter described, together with other features of the invention.

The invention will be more readily understood from a reading of the following specification and by reference to the accompanying drawings, in which an example of the invention is shown, and wherein:

Fig. 1 is a plan view of the box blank cut and scored and ready to be folded,

Fig. 2 is an isometric view of one end of the box partially folded,

Fig. 3 is an isometric view of one corner of the folded box showing the display card in place,

Fig. 4 is an elevation of the display card,

Fig. 5 is an elevation of the box equipped with the card, and

Fig. 6 is a cross-sectional view of the box showing the card in full lines folded down for shipping and swung up in dotted lines for display.

In the drawings the numeral 10 designates a card board blank or sheet which, owing to the nicety of the invention, may be made into a symmetrical rectangular shape. The sheet is provided with longitudinal scores 11, whereby the side panels A may be formed and with transverse scores 12, whereby the end panels B may be produced.

At each end of the blank 10 transverse scores 13 and 14, respectively are provided in the end panels B equally spaced apart and from the score 12. Slits 15 extend outwardly from the intersections of the scores 11 and 12 in alinement with the scores 11, thus producing flaps C at each end of the panels B.

The slits 15 are offset between the scores 13 and 14 to form tabs D and to leave on one side arches 16 in the flaps C, said tabs being folded on scores 11′ alined with the scores 11. Each flap C has a slit 17 in the center of its arch. On the other side a shortened tab D′ is formed and a rounded tongue D is also produced, both being folded on the score 11′. In the bottom of the box rounded tongues F are cut and folded as is shown opposite the scores 12.

In folding the box the blank is first bent on the scores 11 and the side panels A swung upward. The flaps C are then swung inward over the end panels B, being bent on the scores 12. One of the flaps has a slit 17′ cut inward from its outer edge over its arch and this co-acts with the slit 17 in interlocking the flaps as is shown in Fig. 2. Projections at the ends of the arches 16 form feet 18 which support the flaps and preserve the alinement of the top edge of the box.

Each end panel B is folded on the scores 13, 14 and 11, whereby the panel may be folded over the flaps C and an elongated flange B′ bent along the outer edge of said panel. The end tabs D and D′ and the tongue E are also folded inward as is shown in Figs. 2 and 3.

When the end panel is folded over the flaps C as is shown in Fig. 3, the flange B′ is bent at right angles so as to lie flat on the bottom and engage under the tongues F. The tabs D and D′ will stand in the corners of the box, thus reinforcing the same.

It is pointed out that while there are three thicknesses of the sheet at each end of the

box, these lie smooth and neatly and present an unbroken finish to the end of the box. The folded end panels conceal the flaps C and also prevent their disengagement. No staples, glue or other added fastenings are required to secure the box in its folded position. The cover may be a duplicate of the box or any suitable cover may be used.

One of the main features of the invention is a display card 20 having a longitudinal score 21, whereby the card may be folded. That portion of card below the score constitutes a shank G, while the upper portion forms a display panel H for advertising or other data.

At each end of the shank G and just below the score 21 notches 22 are cut in each end. Thus when the shank is slipped between the tabs D' and the side panels A as is shown in Figs. 3 and 5, the tongues E will engage in the said notches and hold the card against displacement. In shipping the panel D may be folded down as is shown in Fig. 6 so as to be out of the way. The card may be easily removed without tearing or injuring the box.

The tongues F in the bottom of the box are efficient and convenient in assembling or disassembling the folded end panels, said tongues may be easily bent up by pressing on the same from the underside of the box. They do not weaken the box and make a satisfactory fastening.

Various changes in the size and shape of the different parts, as well as modifications and alterations, may be made within the scope of the appended claims.

What we claim, is:

1. In a folding box or lid, a sheet blank having side and end panels folded therefrom, flaps folded inwardly at each end, the end panels being folded upon themselves over the flaps, tabs at each side of the end panels standing in the corners of the box, tongues contiguous to the tabs at one side of the box, and a display card detachably mounted between one of the side panels and the tabs and having notches receiving said tongue.

2. In a folding box or lid, a sheet blank having side and end panels folded therefrom, holding tongues at the end panels, and a removable display card mounted along one side of the box and having its lower portion formed with notches to receive said tongues for detachably fastening the card in the box.

In testimony whereof we affix our signatures.

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