

UNITED STATES PATENT OFFICE

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BOX

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3 Claims. (Cl. 229-44)

This invention relates to boxes of that class used for cigarettes, cigars, candy and the like, in which a top cover tilts back to expose the contents, the object being to provide such a box of cardboard that is simple, cheap, convenient of manufacture and strong, and in which the tilting top will be held in position to close the box by friction between the cover and box walls.

For a full understanding of the invention, a detailed description of the box will now be given in connection with the accompanying drawing showing the box in a preferred form and the features forming the invention will then be pointed out in the claims.

In the drawing:

Figure 1 is a plan view of the box blank in a preferred form;

Figure 2 is a perspective view showing the inner box formed before the closing of the outer panels with the cover;

Figure 3 is a perspective view of the complete box closed;

Figure 4 is a similar view of the box with the top open;

Figure 5 is a longitudinal central section of the box open;

Figure 6 is a cross section on the line 6 of Figure 5;

Referring to the drawing, the blank shown in Figure 1 consists of the three wide panels 11, 12, 13, forming the sides of the inner box and narrow panels 14, 15, connecting these wide panels to form the edge panels of the inner box. The outer box panels forming an extension of the blank consist of wide panels 16, 17 and the narrow panels 18, 19, each of which carries top and bottom end closing flaps of the same width respectively as the wide and narrow panels, the flaps carried by panels 16, 17 being 20, 21 and the narrow panel flaps being 22, 23.

Panels 16, 18 and 19 are scored deeply on the line 1 so as to be broken on this line for tilting the cover to open the box and the panel 17 is partially or less deeply scored on the line 2 to provide a hinge on which the cover tilts back to open the box. As shown in the drawing and as preferred, a tab 3 in panel 13 is preferably cut so that it may be bent over and secured to the cover, but this is not essential to the invention.

As shown in Figure 2, the box has been partially formed by flaps 11 to 16, the panels 16, 18 being folded about the inner box, and the panels 17 and 19 and the end closing panels unfolded, the box being completed by closing over the panels 17, 19 onto the inner box panels and closing down the

top and bottom flaps 20, 21, 22, 23 to close the ends of the box, the panel 17 and the end flaps being secured to complete the box by pasting, with the upper scored portion of panels 16, 17, 18, 19 and the top flaps 20, 21, 22, 23 forming the tip back cover, as shown in Figures 3 to 5. The panel 11, as shown in Figure 2, lies over the inner side of panel 13, thus forming three thicknesses when panel 17 is closed over panel 13, and increasing the strength of the box. This panel 11, or part thereof, may be omitted, however, if this three layer feature is not desired but only a double thickness.

It will be seen that the construction shown and above described forms a very strong multiple layer box which is simple, cheap and convenient of manufacture, and in which the cover is well held in position by the friction between the walls of the cover and the stiff walls of the inner complete box. The box of this blank is especially well adapted to machine manufacture.

What I claim is:

1. A box consisting of an inner box comprising four panels and an outer box comprising a panel overlying one of the inner box panels and of such size as to provide for folding panels extending therefrom, and panels extending from said overlying panel and folded about the inner box and said overlying panel, the panels of the outer box having end flaps folding to close the ends of the outer box, three adjacent walls of the outer box being cut at one end to form a tilt back cover hinged on a panel on the fourth side of the box in line with said cuts to close over the ends of the walls of the inner box, all said panels forming a single blank with the panels in line and scored for folding the blank over and over longitudinally from one end of the blank to form the inner and outer boxes and cover.

2. A box consisting of an inner box comprising four alternating wide and narrow panels, and an outer box comprising a wide panel overlying one of the wide inner box panels and of such size as to provide for folding panels extending therefrom, and alternating wide and narrow panels extending from said overlying panel and folded about the inner box and said overlying panel, the panels of the outer box having end flaps folding to close the ends of the outer box, one of the wide and the two narrow walls of the outer box being cut at one end to form a tilt back cover hinged on a panel on the fourth wide side of the box in line with said cuts to close over the ends of the walls of the inner box, all said panels forming a single blank with the panels in line and scored for fold-

ing the blank over and over longitudinally from one end of the blank to form the inner and outer boxes and cover.

3. A box blank comprising four panels arranged in line and scored for folding the blank to form an inner box, and an outer box having a panel scored to fold to overlie one of the said four panels and of such size as to permit for folding panels extending therefrom, and panels extending from said overlying panel and scored to fold over the inner box and said overlying panel, flanges on the

ends of the outer box panels folding to close the ends of the outer box, three adjacent walls of the outer box being cut at one end to form a tilt back cover hinged on a panel on the fourth side of the box in line with said cuts to close over the ends of the walls of the inner box, all said panels on the blank being in line and arranged to fold the panels successively longitudinally of the blank from one end to form the inner and outer boxes and cover.

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