

Dec. 19, 1933.

K. W. PETERSEN

1,940,183

BOX

Filed July 29, 1932

Fig. 1

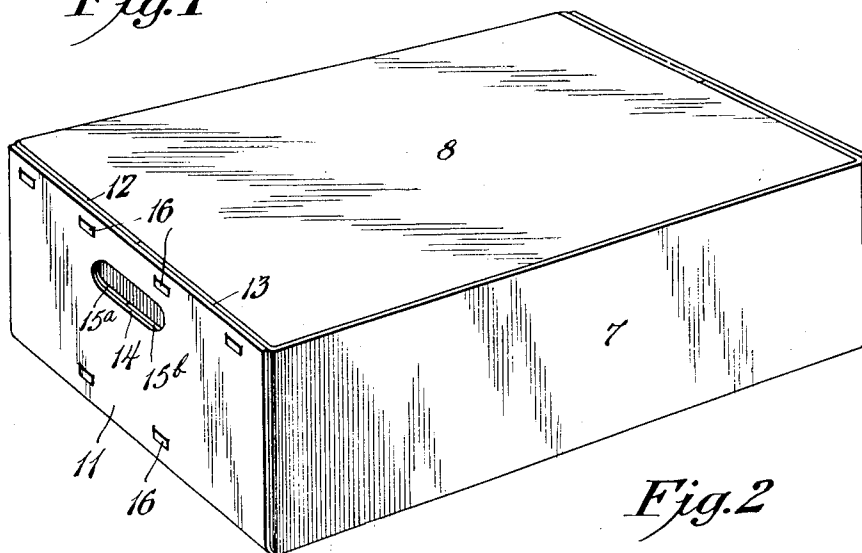


Fig. 2

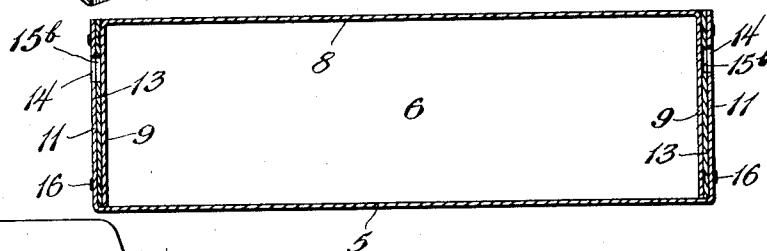


Fig. 4

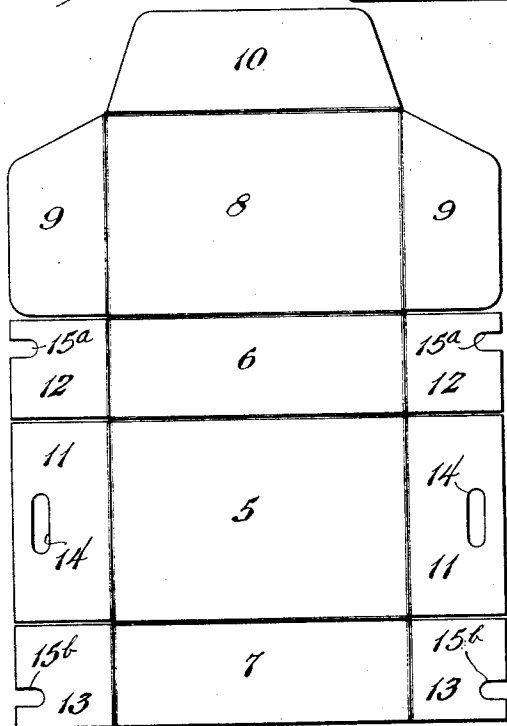
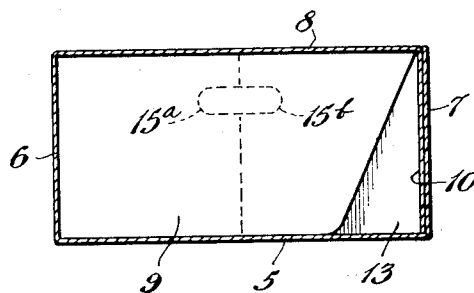


Fig. 3



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UNITED STATES PATENT OFFICE

1,940,183

BOX

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Application July 29, 1932. Serial No. 626,095

1 Claim. (Cl. 229—52)

This invention relates to boxes of the type which are made from a single sheet of heavy paper stock or fibre board, and aims to provide a box of this character having hand holds, which require no material increase in the cost of production and which are sufficiently strong to permit lifting a heavily loaded box without injury to the box.

In the accompanying drawing showing a preferred form of the invention,—

Fig. 1 is a perspective of the box with the cover closed;

Fig. 2 is a vertical, longitudinal section through the box;

Fig. 3 is a vertical cross-section; and

Fig. 4 is a plan view, on a smaller scale, of the box blank.

As shown in Fig. 4, the box blank is cut from a single sheet of material and is scored and cut to shape so as to provide a bottom 5, rear wall 6, front wall 7 and cover 8. The cover 8 has end flaps 9 and a front flap 10, the width of which is equal to the height of the box, measured on the inside, so that the three cover flaps, when folded down inside the box and in contact with the bottom wall, serve to support the cover against collapsing. If fibre board is used as the stock, the cover when so supported may resist heavy crushing strains without breaking or even bending materially. The bridge-like support of the cover will be apparent from Figs. 2 and 3.

At the ends of the bottom 5, flaps 11 are provided, to form, in co-operation with other parts to be described, the end walls of the box. Said other parts are the rear flaps 12, at either end of rear wall 6, and the front flaps 13, at either end of front wall 7.

In order to provide hand holds at each end of the box, each of the end flaps 11 has a cut-out 14, preferably long enough to admit the four fingers of an average-sized hand, each of the rear flaps 12 has a notch 15^a, and each of the front flaps 13 has a notch 15^b. The notches 15^a, 15^b on the same end of the box are so arranged that when the box is set up, they will be alined and together will form an opening equal in size to the cut-out 14 in the adjacent end wall 11. Furthermore, the opening formed

by the complemental notches 15^a, 15^b exactly registers with the adjacent cut-out 14, as clearly shown in Figs. 1 and 2. The end walls 11 are secured, as by staples 16, Fig. 1, to the end flaps 12, 13 to form a rigid, noncollapsible box body having hand holds at each end.

While openings for the hands are highly desirable for handling the box, especially if loaded with heavy merchandise, they are undesirable in that dust and moisture from the outside may contaminate the box's contents. To obviate this, the cover flaps 9 are cut to fit very snugly when the cover is closed, so as substantially to seal the openings provided for the hands. If the box is treated with paraffin, as is preferred in some instance, moisture will be kept out also.

As stated, the cover fits very snugly so that the contents are well protected. Further protection may be had by an inner liner of paraffined paper, or the like (not shown). When it is desired to open the cover, the openings of the hand holds greatly facilitate the operation, as the user may insert his fingers from each side, thrusting inwardly, which will push the cover flaps 9 slightly inwardly and will also slightly bend the cover 8 to cause it to free itself from the end and front walls of the box, when the cover may be easily lifted.

Obviously, the present invention is not restricted to the particular embodiment thereof herein shown and described.

What I claim is:—

A box blank made from heavy paper stock and comprising a cover having end flaps and a front flap; a rear wall to which the cover is hingedly secured; a bottom; a front wall; rear wall end flaps; front wall end flaps; and end wall flaps at each end of the bottom; said end wall flaps each having a cut-out of sufficient size to receive a hand; said rear and front wall end flaps each having a notch cut in one edge; the notches of the front and rear wall flaps at either end of the box being alineable when the box blank is set up and registering with the cut-out at the same end of the box; said cover end flaps being adapted to close the openings at each end provided by the registered cut-out and alined notches.

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