Sept. 13, 1927. 1,641,969

G. K. HENDERSON

BOX

Filed Dec. 26, 1925

FIG. 1

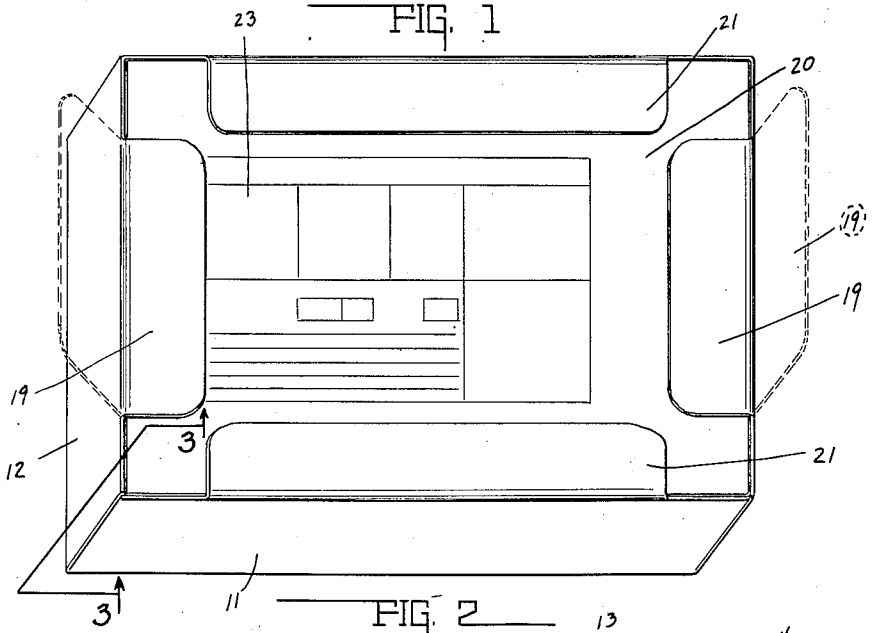


FIG. 2

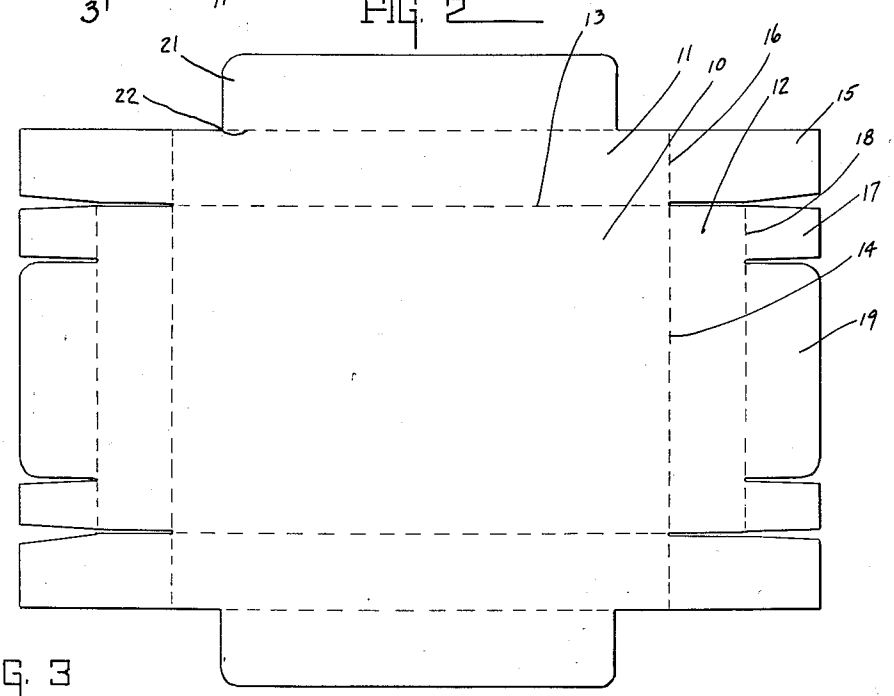
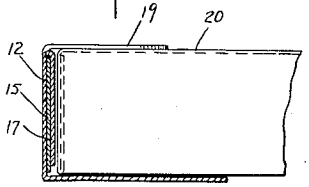


FIG. 3



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UNITED STATES PATENT OFFICE.

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BOX.

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This invention pertains to a folding paper box structure particularly adapted for use in shipping goods by parcel post.

The principal object of the invention is to form the box with suitable sealing flaps which are cut from the body of the blank in such a way as to avoid waste of material and not interfere with the strengthening folds of the box.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims.

Fig. 1 is a perspective view of a box showing the sealing flaps secured in place in full lines and showing them open in dotted lines. Fig. 2 is a plan view of the blank from which the box is formed showing the folds in dotted lines. Fig. 3 is a section taken on the line 3—3 of Fig. 1.

In the blank as shown in Fig. 2, there is a body portion 10, side walls 11 and end walls 12, the side walls 11 being adapted to fold upwardly with respect to the bottom along the dotted line 13, while the end wall is adapted to fold up with respect to the bottom along the dotted line 14. As a continuation of the side walls 11 there are outwardly projecting flaps 15 which, when the side wall is folded up or folded along the dotted line 16 so as to lie adjacent or against the inner surface of the end wall 12, the tabs 17 are folded along the lines 18 so as to fold downwardly and inwardly over the flaps 15, whereby said flaps are held intermediate said tabs and end walls 12. Suitable adhesive is employed for securing them in this position whereby the end and side walls are securely held in upright position. That portion of the body of the blank adjacent the end walls 12 and intermediate the tabs 17 forms the sealing flap 19 which, when folded downwardly and inwardly along the dotted line 18 lies adjacent the top 20 of the box in position to be secured thereto by suitable adhesive as shown in Fig. 1.

The top 20 is formed in the usual manner of constructing paper boxes with end and side walls, and is adapted to fit within the body of the box including the walls 11 and 12 as shown in Fig. 1. The side flaps 21 extending outwardly from the side walls 11 may be folded over and inwardly on the dotted line 22 to provide sealing flaps for the sides of the box as shown in Fig. 1. However, it is a matter of choice as to whether or not the flaps 21 should be employed for sealing purposes or folded against the inner surface of the side walls 11 and secured thereto for the purpose of strengthening the box. On the other hand. the flaps 21 may be formed in the same manner as the end flaps above described so as to provide reinforcing tabs adjacent each end as well as intermediate sealing flaps.

By reason of the box construction above described, without waste of stock, the box may be readily sealed for shipping purposes and forms an ideal means for shipping by parcel post light weight articles such as hosiery, lingerie and the like. For this purpose there may be printed on the top of the box the usual parcel post form, or a C. O. D. tag 23 may be sealed under one of the sealing flaps. This eliminates the using of tape or other means for securing or sealing the box such as has heretofore been employed.

Wherein the four flaps are used as illustrated in Fig. 1, in opening the box, only three of the flaps need be unsealed, the fourth flap acting as a hinge for permitting the lid to be raised without entirely removing the same.

The invention claimed is:

1. A box structure formed from a blank having a bottom, side and end walls, the side walls having a projecting flap extending therefrom and foldable against the inner surface of the end walls, the end walls being formed with tabs extending therefrom adjacent each end adapted to be folded downwardly and over said end flaps and sealed for holding the side and end walls in position, a top adapted to be positioned within the box structure, sealing flaps extending from said end walls and foldable with respect thereto in position to be sealed over the top of said box for securing it in closed position, and sealing flaps extending from the side walls as well as the end walls and foldable with respect thereto in position to be sealed over the top of said box for securing it in closed position.

2. A box structure formed from a blank having a bottom, side and end walls, the side walls having a projecting flap extending therefrom and foldable against the inner surface of the end walls, the end walls being formed with tabs extending therefrom adjacent each end adapted to be fold-

ed downwardly and over said end flaps and sealed for holding the side and end walls in position, a top adapted to be positioned within the box structure, and sealing flaps extending from said end walls and foldable with respect thereto in position to be sealed over the top of said box for securing it in closed position, said end wall tabs being positioned at opposite ends of the end walls, the sealing flap of each end wall being positioned therebetween and separated therefrom, whereby the tabs may be turned inwardly and downwardly and the flaps may be turned angularly as set forth.

8. A box structure formed from a blank having a bottom, side and end walls, the side walls having a projecting flap extending therefrom and foldable against the inner surface of the end walls, the end walls being formed with tabs extending therefrom adjacent each end adapted to be folded downwardly and over said end flaps and sealed for holding the side and end walls in position, a stop adapted to be positioned within the box structure, and sealing flaps extending from said end walls and foldable with respect thereto in position to be sealed over the top of said box for securing it in closed position, said end wall tabs being positioned at opposite ends of the end walls, the sealing flap of each end wall being positioned therebetween and separated therefrom, whereby the tabs may be turned inwardly and downwardly and the flaps may be turned angularly as set forth.

In witness whereof, I have hereunto affixed my signature.

GEORGE K. HENDERSON.