

March 24, 1925.

1,530,643

H. BLANDFORD

PAPER RECEPTACLE

Filed June 1, 1923

2 Sheets-Sheet 1

Fig. 1.

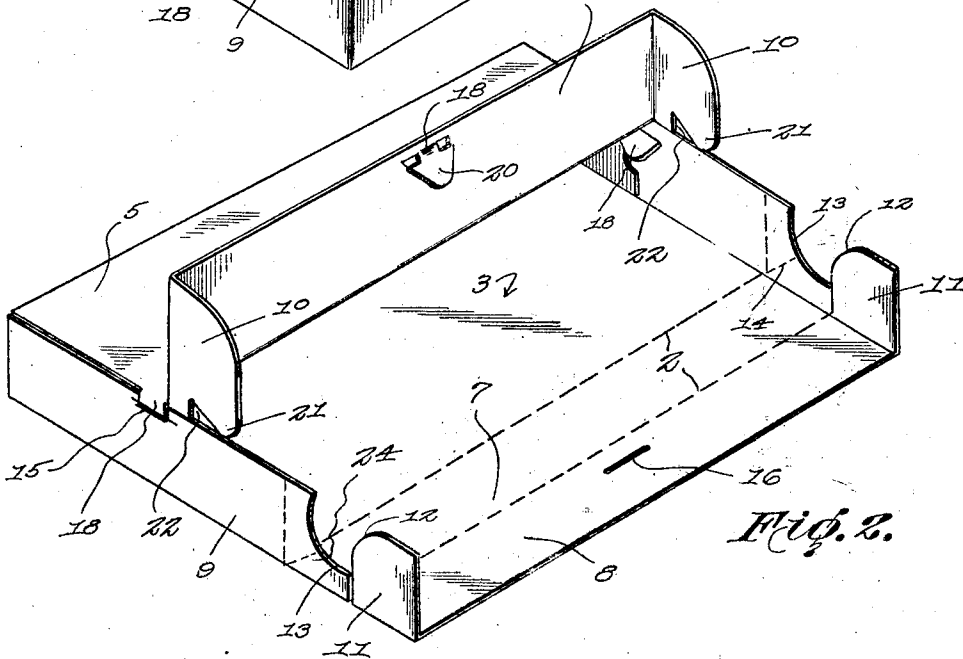
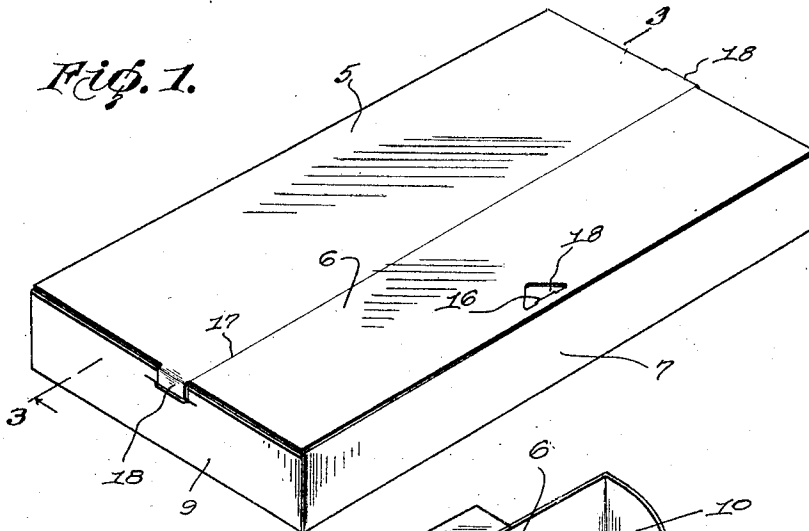


Fig. 2.

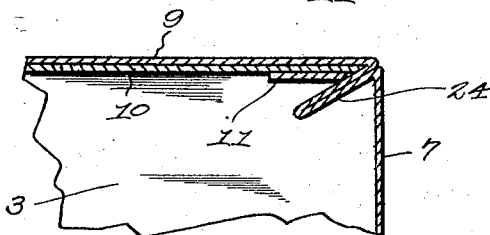


Fig. 6.

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March 24, 1925.

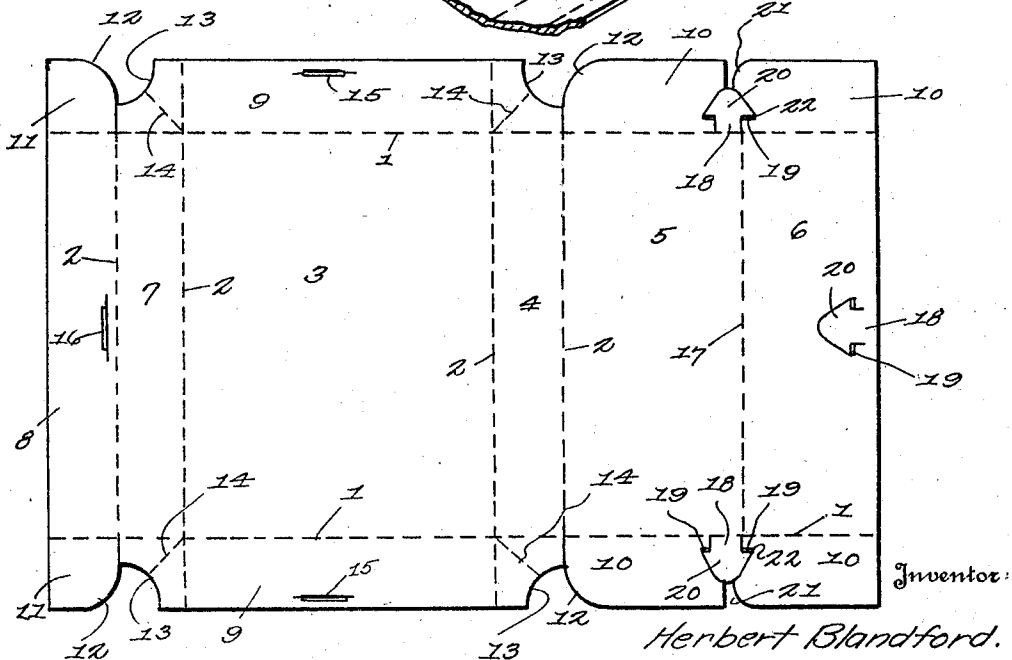
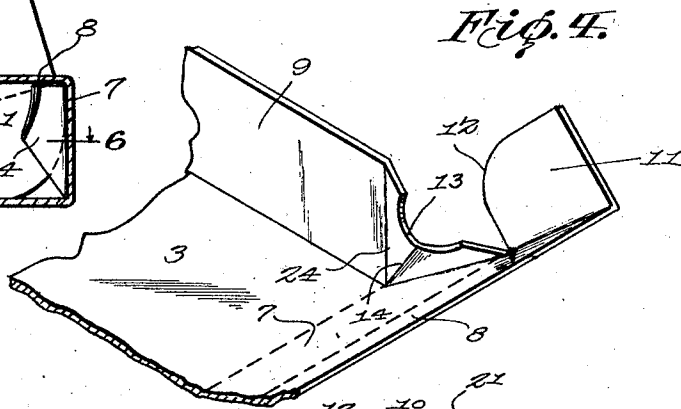
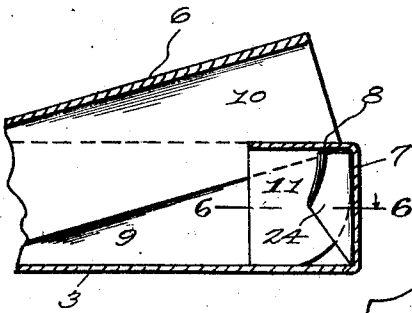
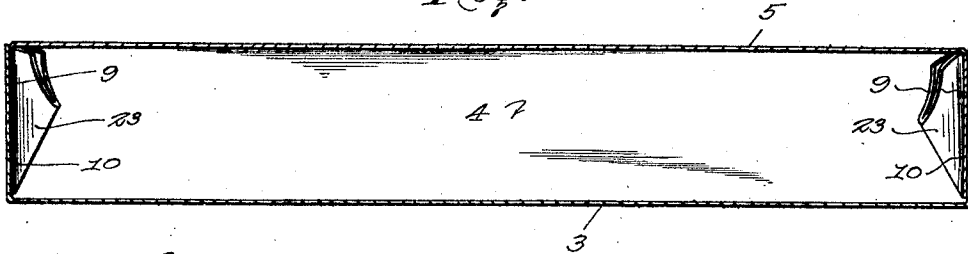
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2 Sheets-Sheet 2

Fig. 3.



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Patented Mar. 24, 1925.

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UNITED STATES PATENT OFFICE.

HERBERT BLANDFORD, OF LOCKPORT, NEW YORK, ASSIGNOR TO FOLD EASY BOX CORPORATION, OF LOCKPORT, NEW YORK.

PAPER RECEPTACLE.

Application filed June 1, 1923. Serial No. 642,864.

To all whom it may concern:

Be it known that I, HERBERT BLANDFORD, a citizen of the United States, residing at Lockport, in the county of Niagara and State of New York, have invented new and useful Improvements in Paper Receptacles, of which the following is a specification.

This invention relates to folded blank boxes and more particularly to this class of articles wherein the blank from which the same is formed is so grooved or indented along certain lines as to produce a novel form of box which I term a stock box.

One of the objects of this invention is to so construct a box of this nature that the forward half of the lid or cover may be readily elevated and swung rearwardly to vertical position and the front end of the box swung outwardly to horizontal position so as to present the goods or other contents of the box to full view for inspection by a purchaser, clerk or other person or for continuous display of the goods.

Another object of this invention is to provide the box with a plurality of locking members whereby certain of the members are arranged to maintain certain parts in stable assembled relation while the other of said members are arranged to maintain the movable parts secured together when in normal closed relation.

These and other objects will more fully appear and the nature of the invention will be more clearly understood from the following specification, the disclosures of the accompanying drawings, and the subject matter of the appended claims.

In the drawings:—

Figure 1 is a perspective view of the box in closed position;

Fig. 2 is a view similar to Fig. 1, excepting the front lid section and front end of the box are shown in the respective positions which they assume when presenting the contents of the box to view;

Fig. 3 is a longitudinal sectional view on line 3—3 of Fig. 1 looking in the direction of the arrow;

Fig. 4 is a fragmentary perspective view of the right-hand corner at the front of the box before the same is folded inwardly;

Fig. 5 is a fragmentary sectional view through the left-hand corner of the box prior to the closing of the front lid section;

Fig. 6 is a horizontal sectional view on line

6—6 of Fig. 5 looking in the direction of the arrow, and

Fig. 7 is a plan view of the box blank.

Referring to the drawings, wherein similar reference characters denote corresponding parts throughout the several views, and referring first to the blank shown in Fig. 7, it will be noted that the blank is formed with the two parallel longitudinal grooved or indented lines 1 and the transverse grooved or indented lines 2. These longitudinal and transverse grooved or indented lines extend respectively from end to end or side to side of the blank. These grooved or indented lines provide the bottom 3 of the box, the rear wall 4, and the sections 5 and 6 of the top of the box. The box is also provided with the front wall 7 having the overlapping flap 8. The grooved or indented lines 1 provide for the two side walls 9, the side flaps 10 of the top, and the flaps 11 at the ends of the front overlapping portion 8.

The edges of the blank are cut to form the outwardly curved corners 12 at the rear edge of the box top 5 and also at the corners of the flap 8 and the inwardly curved or concaved edges 13 at the upper corners of the rear wall 4 and the front wall 7. At the respective ends of the rear wall 4 and the front wall 7 are the grooved or indented lines 14 which extend from approximately the center of the inwardly curved edges 13 in oblique direction to the intersections of the longitudinal lines 1 and the transverse lines 2. These short grooved lines 14 provide for the inwardly extending folds at the respective corners of the box when the same is in setup position.

In proximity to the edges of the side walls 9 are formed the slots 15, and also formed in the overlapping portion 8 adjacent its folded edge portion is the slot 16.

Formed along the transverse center of the lid or top of the box is the grooved or indented line 17 which extends from one longitudinal line 1 to the other, thus dividing the lid of the box into the sections 5 and 6. Beginning at the outer side edges of the cover of the box and substantially in alignment with the grooved or indented line 17 and extending inwardly thereto the blank is stamped or otherwise cut so as to provide the tongues 18 having oppositely disposed shoulders 19 formed therewith, from which should

ders 19 is formed the head 20 to provide means for locking portions of the box together. Also in proximity to the front edge of the front section 6 of the box lid there is stamped or otherwise cut a portion of the cardboard or other material of which the box is made so as to provide a locking member centrally of its side edges consisting of the tongue 18, shoulders 19 and the head 20, this tongue being identical with the two just described in the side edges of the box lid, the only difference being in the relative positioning of these locking members. In forming the locking members 20 at the sides of the box lid there is also formed at the inner ends of the flaps 10 of the lid section 6 and adjacent to one side of the locking members 20 the projections 21 formed with the under-cut recesses 22.

In setting up the box from the blank shown in Fig. 7, the blank is bent along the line 2 between the bottom 3 and the rear wall 4 wherein the member 4 will be disposed at right angles to the bottom 3 and the bending inwardly of the short grooved lines 14 will form the folds at the rear corners of the box as shown at 23 in Fig. 3. Subsequently the lid sections 5 and 6 are turned forwardly by being bent along the grooved line 2 between the rear wall 4 and the lid section 5. This brings the lid sections 5 and 6 over the bottom 3 of the box, the side walls 9 of the box having been previously bent along the lines 1 to position the walls 9 at right angles to the bottom 3 and at the same time the front wall 7 is raised to a position at right angles to the bottom 3 by bending the same at the grooved line at the forward edge of the bottom 3 and the bottom edge of the front wall 7, the oblique indented lines 14 at the corners being bent inwardly at the right and left-hand front corners to form the intumed folds 24 shown in Figs. 4, 5 and 6, the flap 8 carried by the front wall 7 is then folded along its grooved line at right angles to the front wall 7 and parallel to the bottom 3 with its end flaps 11 folded inwardly at right angles to the body of the flap 8, the flaps 11 passing over the end wall 7 and projecting downwardly to the bottom 3 of the box adjacent the inner sides of the side walls 9. After the top lid sections 5 and 6 are folded over the box the side locking heads 20 are seated in the slots 15 in the side walls 9 with the flaps 10 of the lid section 5 extending along the inner sides of the side walls 9 towards the bottom of the box. This secures the bottom 3, rear wall 4 and the rear lid section 5 as well as the side walls 9 and the flaps 10 of the rear lid section 5 in secure assembled relation.

The front lid section 6 is adapted to be bent along the grooved line 17 to provide a hinged connection between the sections 5 and 6 so that when the lid section 6 is also folded

down upon the box the side flaps 10 thereof are folded upon the grooved line adjacent thereto so that the flaps may pass freely within the box engaging the inner sides of the side walls 9 and seat between the same and the flaps 11 of the overlapping section 8 of the front wall 7. The locking head 20 at the front edge of the lid section 6 is seated in the slot 16 of the overlapping member 8 of the front wall, so that, the box assumes the closed position as shown in Fig. 1.

When it is desirable to display the contents of the box the locking member 20 at the front edge of the lid section 6 is disengaged from the slot 16 and due to the grooved line 17 is swung upwardly and rearwardly with the upper edges of the side walls 9 seated in the recesses 22 with the projections 21 in the outer sides of the side walls 9 for maintaining the lid section 6 in vertical position. Thereafter the overlapping member 8 is pulled forwardly carrying with it the front wall 7 of the box until the member 8 and wall 7 assume horizontal position, this being readily provided for by the intumed folds 24 at the respective front corners of the box, the parts and positions just described being clearly shown in Fig. 2 of the drawings. After the goods have been displayed the forward movable members of the box may then be returned to their normal closed positions in the manner hereinbefore described.

The foregoing described and illustrated box constituting my invention supplies a much needed article in the nature of a stock box for use in stores and the like and is primarily designed for containing samples of goods, the forward portions of the box being readily manipulated so as to expose to view its contents and thereafter readily closed.

Alterations and variations may be made from time to time as may be deemed expedient and which will neither depart from the spirit of the invention nor the scope of the claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination of a box having side walls provided with incisions and having a front wall provided with a flap, a cover having front and rear hingedly connected sections, the rear section of the cover being provided at opposite ends with tongues adapted to be received in said incisions whereby to lock the rear section in position and the forward portion of said front section being provided with a tongue adapted to be extended through said flap to secure the front section in position.

2. In a box, the combination of sides, front and rear walls, of a cover hinged to the rear wall and consisting of front and

rear hingedly connected sections, the rear section of the cover being provided with means engaging the side walls to hold the side walls and the rear section of the cover in assembled position, the front wall of the box being provided with an overhanging flap, said flap and said front section of the cover being provided with means whereby the same are detachably connected.

3. In a box of the character specified comprising a bottom, side walls and rear wall, infolding members at the intersections of said rear wall and said side walls, a rear lid section carried by said rear wall, locking means carried by said rear lid section for engaging locking means in said side walls for maintaining these parts in secure assembled

relation, a swinging front wall for said box, an overlapping member carried by the upper edge of said front wall, a swinging front lid section at the forward edge of said rear lid section adapted to be swung downwardly upon the overlapping member of said front wall for closing the forward end portion of said box, means in said overlapping section of said front wall, and a locking member carried by said front lid section for engaging the locking means of said overlapping member, whereby to secure the movable members at the front end of the box in secure assembled relation.

In testimony whereof I affix my signature.

HERBERT BLANDFORD.