June 17, 1924. 1,497,898

H. L. FELLOWES

BOX

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Fig. 2

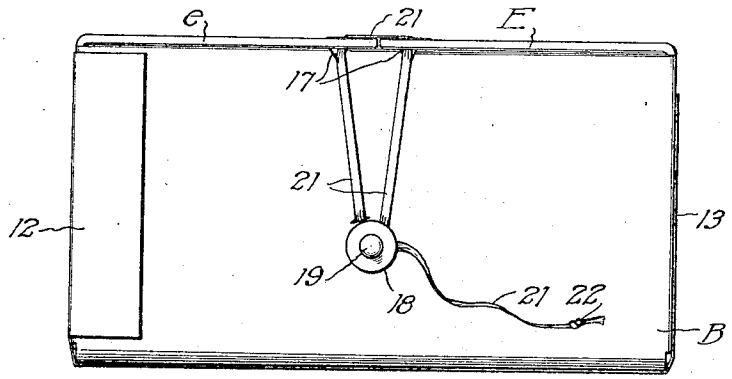


Fig. 6

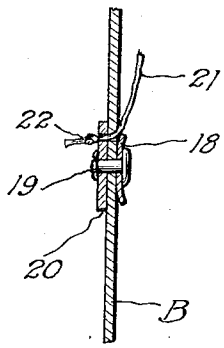
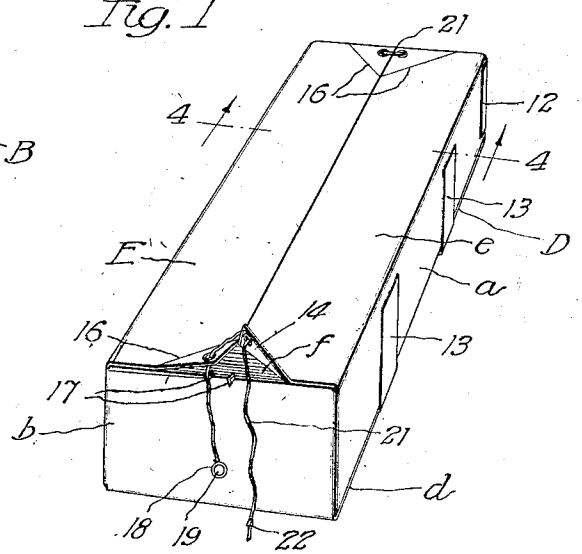


Fig. 1



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Fig. 3

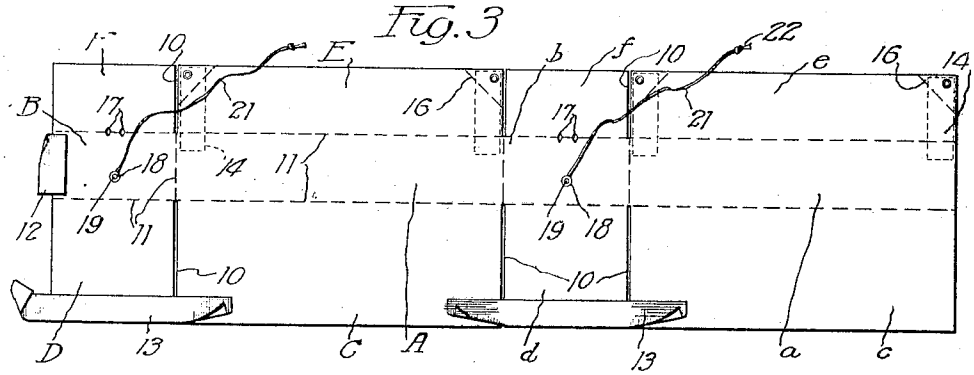


Fig. 4

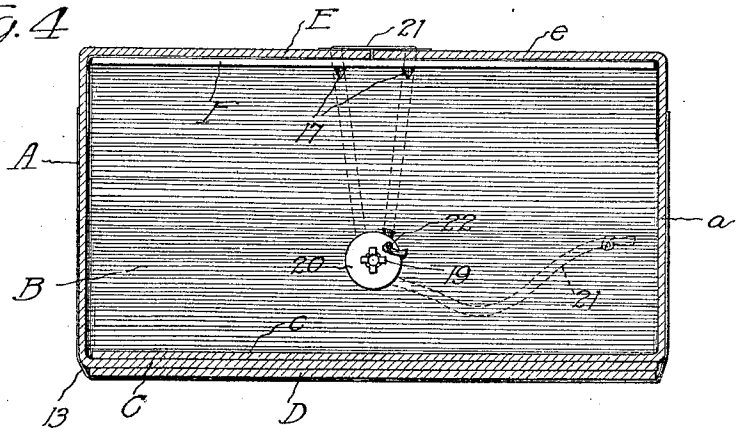
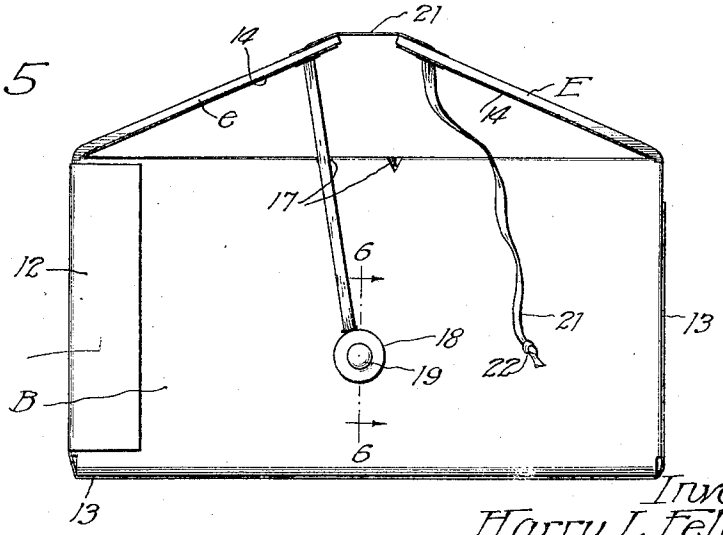


Fig. 5



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UNITED STATES PATENT OFFICE.

HARRY L. FELLOWES, OF CHICAGO, ILLINOIS, ASSIGNOR TO BANKERS BOX COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

BOX.

Application filed May 31, 1923. Serial No. 642,378.

To all whom it may concern:

Be it known that I, HARRY L. FELLOWES, a citizen of the United States, and resident of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Boxes, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention is concerned with the provision of a box which is particularly characterized by the simplicity and efficacy of the means for securing its top-flaps in closed position.

In the accompanying drawings illustrating a preferred embodiment of my invention,

Figure 1 is a perspective view of the box as it appears while undergoing the process of having its top-flaps fastened in closed position;

Figure 2 is a rear end view of the box shown in Figure 1;

Figure 3 is a plan view of a completed and fully equipped flattened out box blank embodying the present invention;

Figure 4 is a cross sectional view taken on line 4—4 of Figure 1;

Figure 5 is a view similar to Figure 2, but illustrating the top-flaps released, and

Figure 6 is a fragmentary sectional view taken on the line 6—6 of Figure 5.

Similar characters of reference refer to similar parts throughout the several views.

In Figure 3, I have illustrated a box blank formed from a single piece of cardboard or other suitable light and foldable or bendable material, which is cut at 10—10, and is creased, scored or folded along the dotted lines 11—11 to divide it into a plurality of connected sections, as follows: the sections A and *a* which constitute the sides of the box, the sections B and *b* which constitute the ends of the box, the sections C and *c* which constitute the lateral bottom-flaps of the box, the sections D and *d* which constitute the end bottom-flaps of the box, the sections E and *e* which constitute the lateral top-flaps of the box, and the sections F and *f* which constitute the end top-flaps of the box.

The blank illustrated in Figure 3 is adapted to be converted into a box of the character illustrated in Figures 1, 2, 4 and 5. The adhesive textile fabric strip 12 serves to secure the sections B and *a* together, and the adhesive textile fabric strips 13—13 serve to hold the box bottom-flaps in position and to support the bottom-flaps and the box contents from the side walls A and *a*. As thus far described, the box herein illustrated is or may be substantially identical with the box shown and claimed in my Reissue Patent No. 15,532, dated January 23, 1923.

I shall now proceed to describe those features of improvement to which my present invention is directed.

Each of the lateral top-flaps, E and *e*, is provided at each end of its inner surface with an adhesively applied textile fabric reinforcing strip 14, which preferably extends from the free lateral edge of the flap over and beyond the crease or fold which constitutes the line of demarcation between such lateral top-flap and the side wall, A or *a*, with which said top-flap is connected. Each lateral top-flap, E and *e*, is provided with an eyelet 15 which extends through both the material of the flap and one of the reinforcing strips 14. Furthermore, each lateral top-flap, E and *e*, is scored or creased along the dotted lines 16, so that its free or eyelet-carrying corners readily may be turned from the plane of the major portion of the flap, as is clearly illustrated in Figure 1.

I now call attention to the two pairs of substantially diamond-shaped openings 17 which are cut in the box blank along and substantially midway between the ends of the lines of demarcation between the end top flaps, F and *f*, and the end walls B and *b*, respectively, the said openings 17 being so located that each one of them lies immediately adjacent to one of the eyelets 15 when the top-flaps of the box occupy their closed positions, and forming seats for the cords which thereby may be readily threaded through the openings or apertures 17.

Each of the box ends, B and *b*, is provided on its outer surface with a concavo-convex metal button 18, which is preferably disposed in a vertical line passing midway between the openings 16 at the upper margin of such box end. Each button is held in position by a rivet 19 which extends through the box end and preferably also through a

reinforcing disc or washer 20 which may be formed either of metal or strong cardboard. Also associated with each end of the box is a fastening cord or tape 21 which extends through registering apertures in said box and its associated reinforcing washer 19, the ends of the said cord or tape being preferably knotted, as at 22, to prevent their accidental withdrawal from the said registering apertures.

In closing the top of the box herein shown and described, the end top-flaps, F and *f*, are first turned in over the contents of the box, and the lateral top-flaps, E and *e*, are then turned down over the said end top-flaps. One of the cords or tapes 21, say for instance the cord or tape associated with the box end B, is then passed upwardly through one of the adjacent pairs of eyes 17, across the contiguous edges of the lateral top-flaps, E and *e*, downwardly through the adjacent eyelet, and thence around the fastening button 18. When the said cord or tape is drawn up tightly around the fastening button, the vertically extending portions of the said cord or tape automatically find their way into the corner notches afforded by the openings 17, thus permitting the lateral top-flaps to be drawn down firmly and evenly against the upper surfaces of the end top-flap F. The cord or tape at the other end of the box is then utilized in the manner described. This may be done with ease as the corners of the lateral top-flaps readily may be turned up to facilitate threading the fastening cords or tapes through the eyelets carried by such corners. The creasing or scoring of the lateral top-flap corners is also advantageous because permitting inspection of the box contents by loosening but one of the fastening cords or tapes.

I prefer to have the lateral bottom-flaps, C and *c*, substantially twice as wide as the lateral top-flaps in order that the bottom of the box may at all points consist of a plurality of layers of the box material.

The box herein illustrated meets all of the requirements of a file to be used by banks and similar institutions to receive checks, drafts, deposit slips, etc. The box top may be readily opened and closed as herein explained. The fastening cords or tapes not only serve to hold the lateral top-flaps down firmly and evenly upon the end top-flaps, but also tend tightly to draw the contiguous edges of the lateral top flaps together, thus insuring a practically dust-proof file. The fastening cords or tapes substantially fill the openings 17—17 and effectively prevent the ingress of dust through the same.

Having thus illustrated and described the preferred embodiment of my invention, I do not limit myself to the precise construction and arrangement of parts herein illustrated, but wish to claim all equivalent embodiments of my invention as defined by the appended claims.

What I claim is new and desire to secure by Letters Patent of the United States is:

1. A rectangular box comprising a bottom, four vertical walls and top flaps associated with said vertical walls, the top flaps carried by an opposite pair of said vertical walls having a combined width substantially equal to the width of the box, apertures in the free corners of said last-mentioned top flaps, cord seats formed at the lines of demarcation between the other top flaps and the vertical walls by which they are carried, and cords and cord securing devices associated with the outer surfaces of the last-mentioned vertical walls, whereby the cords may be readily passed across said seats and through said apertures.

2. A rectangular box comprising a bottom, four vertical walls and top flaps, a pair of top flaps carried by opposite vertical walls having a combined width substantially equal to the width of the box and adapted to occupy the same plane and to overlie another one of the top flaps, cord seats formed at the line of demarcation between said last-mentioned top flap and the vertical wall by which it is carried, corner apertures in the aforesaid pair of top flaps adapted to overlie said cord-seats and a cord and a cord securing device associated with the outer surface of the last-mentioned vertical wall, whereby the cords may be readily passed across said seats and through said apertures.

3. In a box comprising a bottom, side and end walls, top flaps carried by the side and end walls, the side wall top flaps being adapted to occupy the same plane and to overlie the end wall top flaps with the free lateral edges of said side wall top flaps disposed closely adjacent to each other, apertures in the free corners of said side wall top flaps, a cord associated with each end wall, a cord securing device also carried by each end wall on the outer surface thereof, and a pair of cord seats formed at the line of demarcation between each end wall top flap and the end wall by which it is carried, said cord seats being adapted to receive across them the upwardly extending portions of the cords when the latter are threaded through the corner apertures of the side wall top flaps, as illustrated.

4. A box comprising a bottom, side and end walls, end top flaps and lateral top flaps adapted to be disposed with their free lateral edges in opposed relation, apertures in the free corners of the lateral top flaps, a pair of cord seats located at the line of demarcation between each end top flap and the end wall by which it is carried, said cord seats being adapted to underlie the aforesaid apertures when the lateral top

flaps are closed, a pair of fastening cords, one attached to each end wall, each cord being adapted to extend upwardly along the outer surface of the end wall by which it is carried and to be threaded upwardly through one of the adjacent lateral top flap apertures and over the contiguous edges of the lateral top flaps to the adjacent aperture and thence downwardly along the outer surface of the end wall, the cords passing over said cord-seats and tending to draw the lateral top flaps together and down firmly upon the end top flaps.

5. A rectangular box comprising a bottom, four vertical walls and top flaps associated with said vertical walls, the top flaps carried by an opposite pair of said vertical walls having a combined width substantially equal to the width of the box, said last mentioned top flaps being scored or creased to provide them with corner flaps, apertures in said corner flaps, cord seats formed at the lines of demarcation between the other top flaps and the vertical walls by which they are carried, and cords and cord securing devices associated with the outer surfaces of the last-mentioned vertical walls, whereby the cords may be readily passed across said seats and through said apertures.

6. A rectangular box comprising a bottom, four vertical walls and top flaps, a pair of top flaps carried by an opposite pair of said vertical walls having a combined width substantially equal to the width of the box, reinforcing strips extending across the inner surfaces of said last-mentioned top flaps at the ends thereof and projecting over and beyond the lines of demarcation between said flaps and the vertical walls by which they are carried, eyelets in the free corners of said last-mentioned top flaps, cord seats formed at the lines of demarcation between the other top flaps and the vertical walls by which they are carried, and cords and cord securing devices associated with the outer surfaces of the last-mentioned vertical walls, whereby the cords may be readily passed across said seats and through said eyelets.

In witness whereof, I hereunto subscribe my name this 26 day of May, 1923.

HARRY L. FELLOWES.

Witnesses:

DAGMAR PETERSON,

EMILE BOURGEOIS.