Oct. 27, 1925. 1,559,237

C. A. FOX

COLLAPSIBLE BOX

Filed Oct. 23, 1924 2 Sheets-Sheet 1

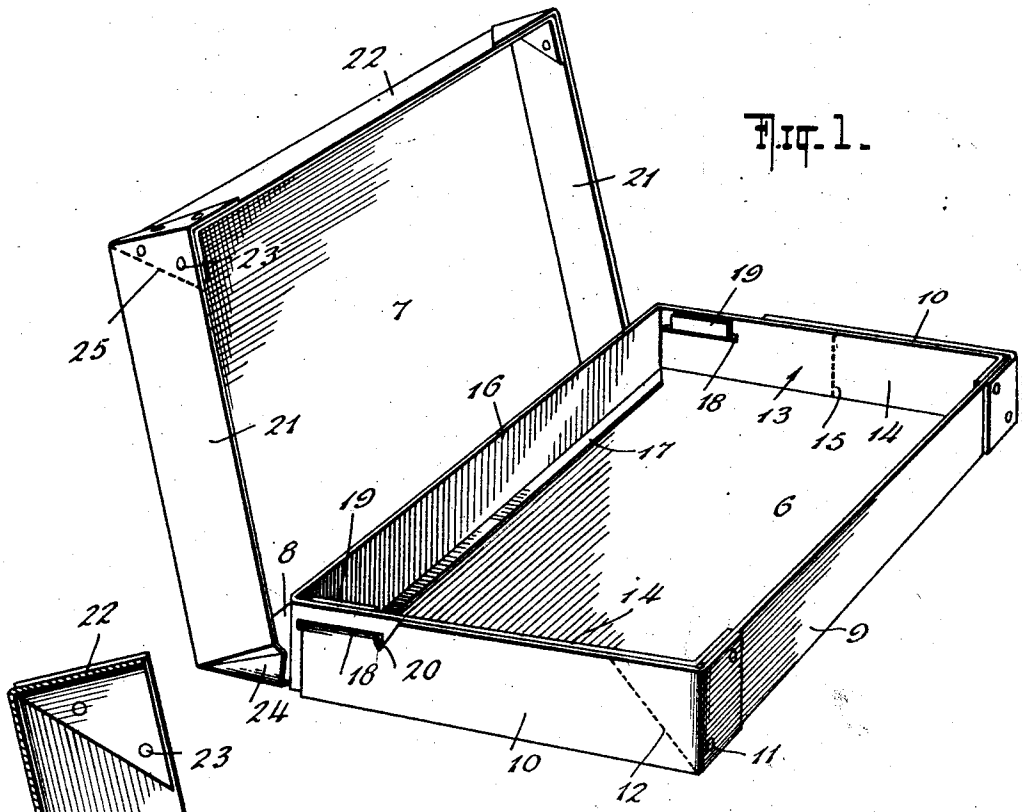

Fig. 1.

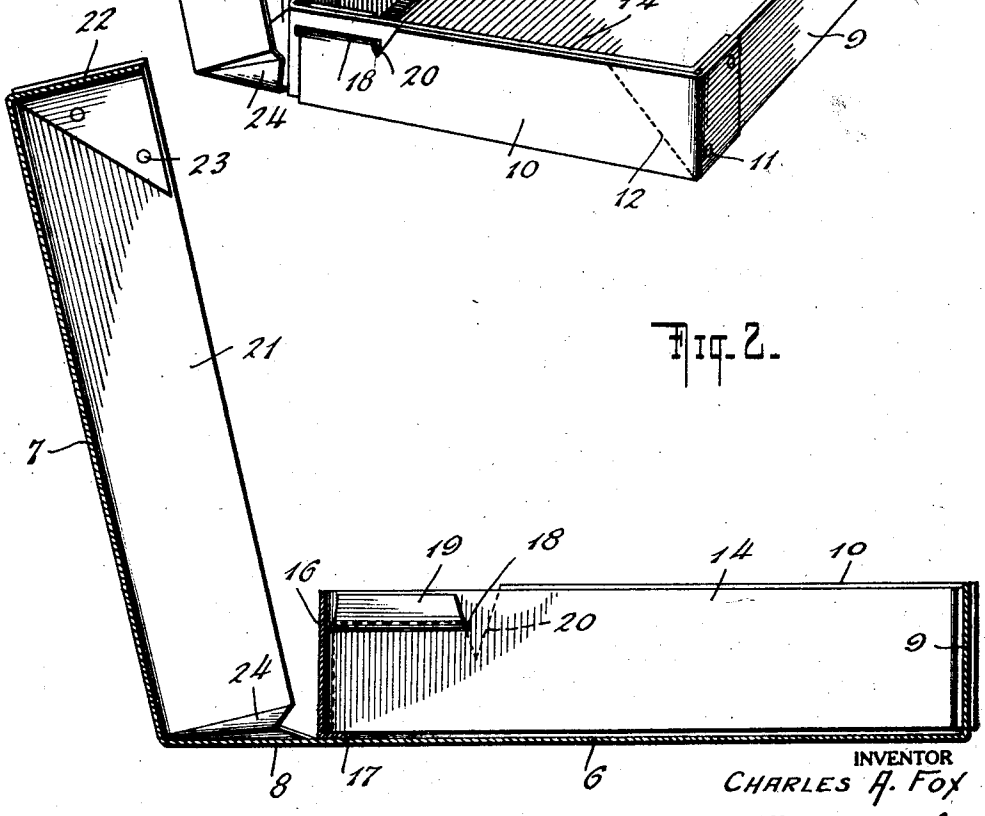

Fig. 2.

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Fig. 3.

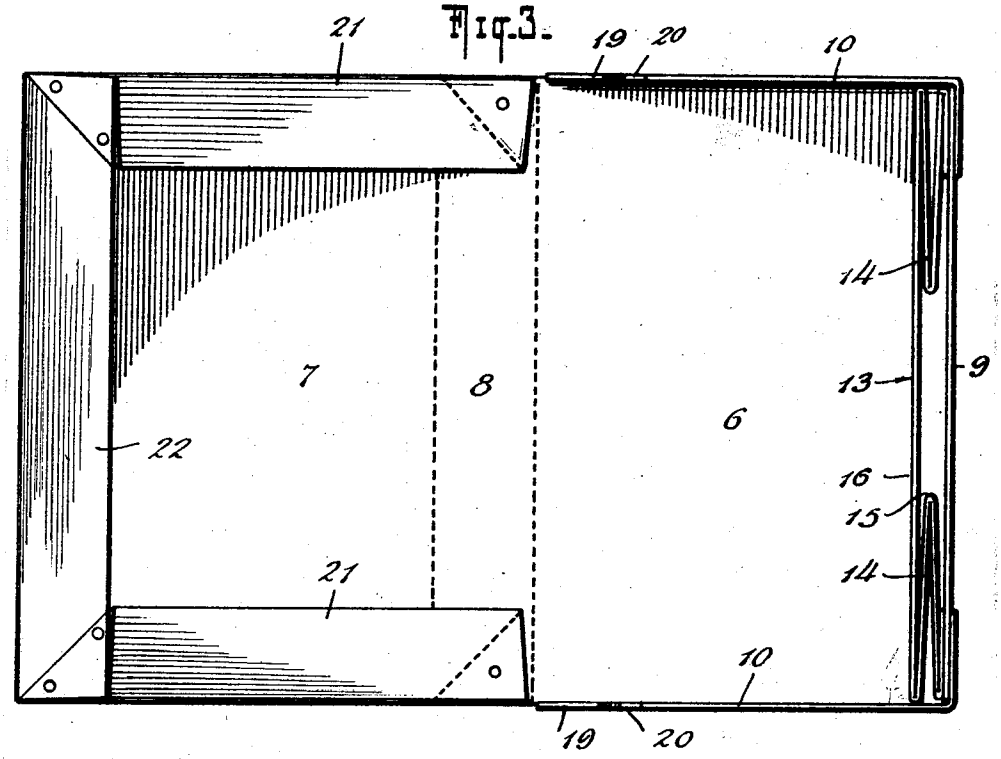


Fig. 4.

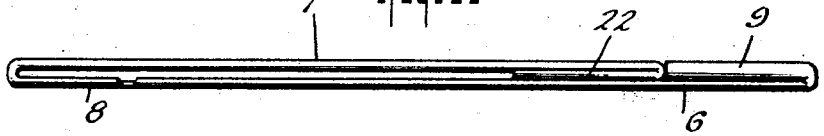
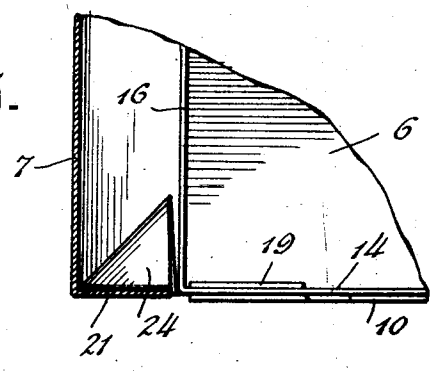


Fig. 5.



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Patented Oct. 27, 1925. 1,559,237

UNITED STATES PATENT OFFICE.

CHARLES A. FOX, OF NEW YORK, N. Y.

COLLAPSIBLE BOX.

Application filed October 23, 1924. Serial No. 745,272.

To all whom it may concern:

Be it known that I, CHARLES A. FOX, a citizen of the United States, residing at New York city, county of New York, and State of New York, have invented certain new and useful Improvements in Collapsible Boxes, of which the following is a specification.

This invention relates to improvements in receptacles, and has particular reference to a collapsible box of the type disclosed in my previous Patent No. 1,498,441, dated June 17, 1924.

An object of the invention is to provide an improved box wherein the side walls of the bottom section thereof are braced against collapsing, when the box is in an operative position, by interengaging said side walls with a foldable lining carried by said section.

Another object is to provide a box of simple and inexpensive construction which may be readily and quickly extended to operative position and collapsed into compact form when not in use.

The above and other objects will appear more clearly from the following detailed description, when taken in connection with the accompanying drawings, which illustrate a preferred embodiment of the inventive idea.

In the drawings—

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

Figure 2 is a vertical longitudinal section therethrough;

Figure 3 is a plan view showing the box partially collapsed;

Figure 4 is an edge elevation showing the box in completely collapsed position; and

Figure 5 is a fragmentary plan view, partly in section, with the parts in the same position as shown in Figures 1 and 2.

The box illustrated in the drawings is of the kind generally known as telescoping boxes wherein one of the sections is entirely nested within the other when the box is closed.

The box is shown as comprising a bottom section joined to a top section 7 by an intermediate section 8, which latter section forms the rear outer wall of the box when the same is closed.

The bottom section 6 includes a front wall 9 and side walls 10, the forward ends of which are overlapped with the ends of the front wall 9 and secured thereto by means of suitable fasteners 11. The side walls 10 are scored, as indicated at 12, adjacent the forward ends thereof so as to permit of the walls being folded inwardly upon the bottom of the section when the box is being collapsed.

An inner lining, generally indicated by the numeral 13, is provided for the bottom of the section and is formed from a single length of material, the extremities of which overlap the ends of the front wall 9 and are secured thereto by said fasteners, thus reinforcing the front corners of the box. The lining 13 includes the sides 14 which are scored intermediate their ends, as indicated at 15, to permit of said sides being folded inwardly to the collapsed position shown in Figure 3. The intermediate portion of the lining 13 forms a rear wall 16, which, when the lining is extended as in Figure 1, provides the rear wall for the section 6 and is capable of being engaged by the intermediate section 8 when the top section 7 is in closed position. The rear wall 16 is reinforced by a flange 17 formed along the lower longitudinal edge of said wall and which is engageable with the bottom of the section 6 to brace the wall 16 against collapsing inwardly.

The sides 14 of the lining are employed for the purpose of supporting or bracing the side walls 10 of the section 6 and are interengaged with said side walls in such manner that when the box is extended and in operative position said walls will be reinforced and prevented from collapsing inwardly. The interengagement of the lining with the side walls 10 is accomplished by forming the sides 14 of the lining adjacent the wall 16 thereof with longitudinally extending slots 18 each of which is capable of receiving a tongue or flap 19 formed upon the rear end of the adjacent side wall by cutting a notch 20 in the upper edge of said wall. When setting up the box in operative position the lining 13 is extended and the tongues or flaps 19 are then inserted inwardly through the slots 18 so as to engage portions of said tongues with the inner surfaces of the sides 14 of the lining. The material of which the side walls 10 and lining 13 are formed being relatively stiff, it will be obvious that when the side walls and lining are interengaged as described the latter will reinforce the side walls and prevent them from being easily collapsed.

The top section 7 includes the side walls

21 overlapped at their free ends with the adjacent ends of the front wall 22 of said section and secured to said front wall by suitable fasteners 23 to form reinforced corners for the section. At the inner ends of the side walls 21 adjacent the intermediate section 8 said walls are creased or folded, as indicated at 24, to permit of the side walls being collapsed to the position shown in Figure 3 and said side walls are additionally scored, as indicated at 25, to also aid in the collapsing of said walls, together with the front wall 22.

With the top and bottom sections and the lining collapsed the top section may be folded over upon the bottom section, as indicated in Figure 4, so that when the box is not in use the same will form a compact structure which will occupy a minimum space in storage.

What is claimed is:

1. In a collapsible box, a bottom section including a front wall, side walls attached thereto, and an inner foldable lining secured to said front wall and including side walls and an intermediate portion forming the rear wall of said section, the side walls of said lining being provided with longitudinal slots adjacent said intermediate portion of said lining, and the rear ends of the side walls of said section terminating short of said intermediate section and being provided with upwardly projecting flaps insertable through the slots in said lining.

2. In a collapsible box, a bottom section including side walls, another wall attached thereto, and an inner foldable lining secured to said other wall and including side walls and an intermediate portion forming still another wall of said section, the side walls of said lining being provided with longitudinal slots adjacent said intermediate section of said lining, and the free ends of the side walls of said section terminating short of said intermediate section and being provided with upwardly projecting flaps insertable through the slots in said lining.

In testimony whereof I have affixed my signature.

CHAS. A. FOX.