Oct. 18, 1938. C. A. STOPPER 2,133,590

BOX

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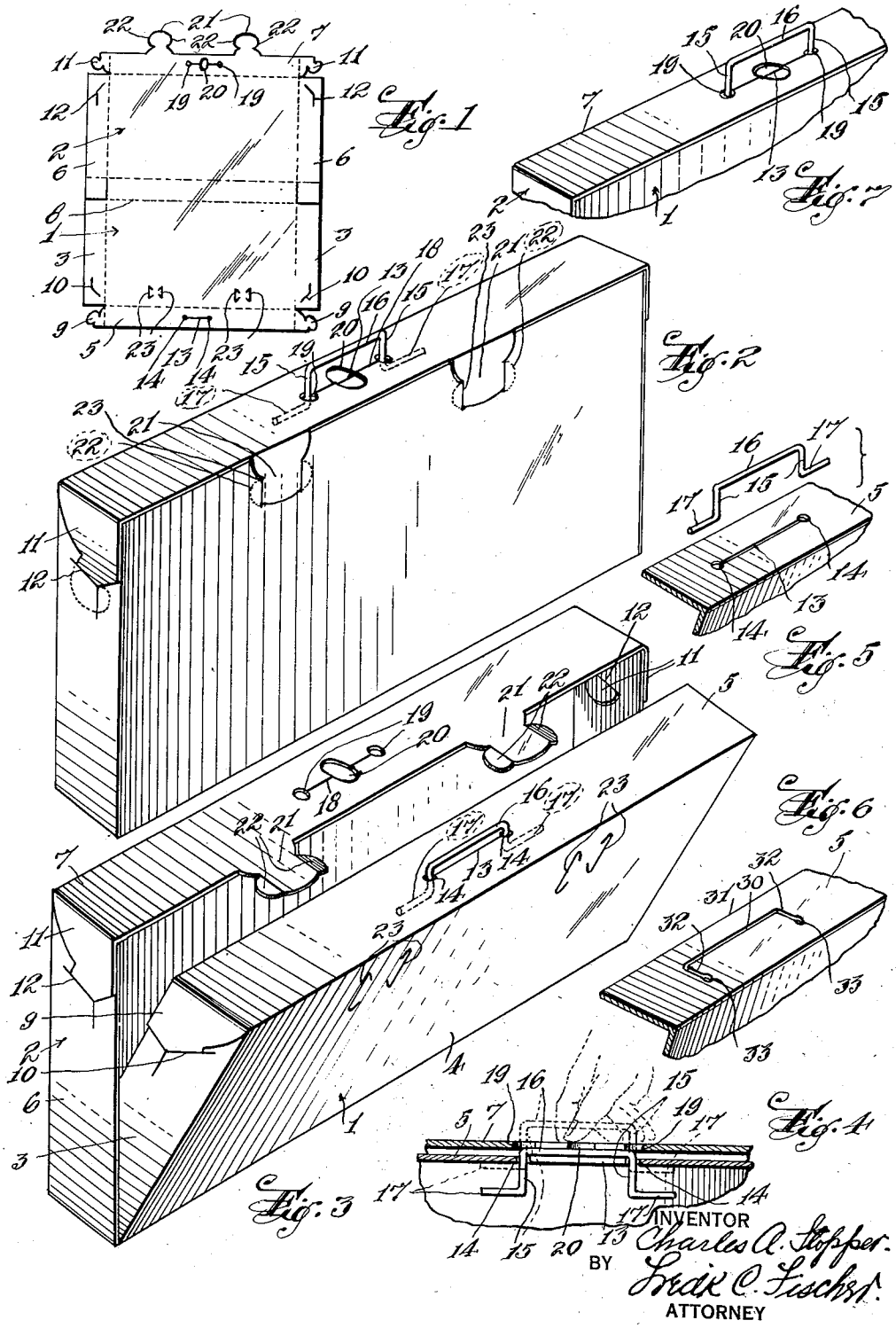

Fig. 1

Fig. 7

Fig. 2

Fig. 5

Fig. 6

Fig. 4

Fig. 3

INVENTOR
Charles A. Stopper.
BY
Frank C. Fischer
ATTORNEY

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BOX

Charles A. Stopper, Philadelphia, Pa., assignor to Diamond Paper and Box Co., Philadelphia, Pa., a partnership of Pennsylvania

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3 Claims. (Cl. 229—52)

This invention relates to boxes, and more particularly to boxes and cartons made from cardboard and the like adapted for use in packing garments.

Heretofore, cardboard boxes used in clothing stores for packing garments for transportation have been provided in a flat or "knock-down" condition in order that when not in use they will occupy a minimum amount of space. When it is desired to pack a garment, the flat blank is folded and portions secured together to form a box. Such boxes were not provided with handles to facilitate carrying them; and if a handle is desired, it is attached to the string which holds the two portions of the box together.

It is an object of this invention to provide a packing box, preferably made of cardboard or the like, said box being formed of two sections, which are held together by means of a handle member to facilitate carrying of the box. In accordance with the invention, it is not necessary to tie the two sections of the box together by means of a string or the like.

A further object of the invention is the provision of means for readily and conveniently attaching a carrying handle to a packing box formed in two sections.

These and other advantageous objects, which will later appear, are accomplished by the simple and practical construction and arrangement of parts hereinafter described and exhibited in the accompanying drawing, forming part hereof, and in which:

Fig. 1 is a plan view of a blank from which a box embodying the invention can be formed,

Fig. 2 is a perspective view of a box embodying the invention in a closed position,

Fig. 3 is a perspective view of a box in an open position,

Fig. 4 is a sectional view illustrating the manner of attaching a handle to the box,

Fig. 5 is a perspective view showing details of the handle and a portion of the box to which the handle is attached,

Fig. 6 is a modification showing another manner of securing a handle to the box, and

Fig. 7 is a perspective view showing details of the top wall of a cover for the box.

Referring to the drawing, the box is shown to comprise the body portion 1, and a cover portion 2, the body portion having side walls 3, a bottom wall 4 and a top wall 5. The cover is provided with a side wall 6 and a top wall 7. The box is generally provided in the form of a blank having scorings thereon as shown in Fig. 1 to enable folding or creasing to provide the various walls and portions of the box. As will be seen from Fig. 1, the body portion is joined to the cover along the scored line 8. The top wall 5 is secured to the side walls 3 by folding flaps 9 integral with top wall 5 into slots 10 on side walls 3. Similarly top wall 7 of the cover has integral therewith flaps 11 which are folded into slots 12 of side walls 6 to secure top wall 7 to side walls 6.

Top wall 5 of the body portion, intermediate its length, is slitted at 13, the ends of the slit being provided with apertures 14 through which pass the legs 15 of a U-shaped handle 16, the legs 15 being provided with outwardly directed extensions 17 adapted to engage the underside of the top wall 5 when the handle 16 is passed through slit 13, as shown in Fig. 3, to limit upward movement of the handle.

Top wall 7 of the cover portion is provided with a slit 18 having apertures 19 at the ends thereof, and a relatively large aperture 20 at its center.

Integral with top wall 7 of the cover are laterally projecting flaps 21, each having wing portions 22 adapted to be folded into slits 23 in the bottom wall 4 of the body portion, (see Fig. 2).

In operation, the blank shown in Fig. 1 is folded along the various scored lines and the flaps 9 and 11 are respectively folded into slits 10 and 12 to respectively secure top wall 5 to side walls 9 and top wall 7 to side walls 6, thus forming the body portion 1 and a cover 2. The handle 16 is then placed beneath the top wall 5 and forced upwardly through slit 13 so that the extension 17 engages the underside of top wall 5. The body portion is then moved into the cover with the handle 16 resting directly on the top wall 5, and beneath slit 18 and opening 20 in the top wall 7 of the cover. The fingers are then inserted in the aperture 20 to grasp the handle 16 and pull it upwardly through slit 18 to the position shown in Fig. 2. The box is now in a closed position and ready for transportation, as the handle, when in the position shown in Fig. 2, serves as an effective means for holding the two portions of the box together. Inasmuch as the cardboard is relatively stiff, sufficient resistance is provided to prevent slipping of the handle through the slits.

After the handle has been inserted as above described, the wing portions 22 of the flaps 21 are forced into the slits 23 in the bottom wall 4 to provide further means for holding two portions of the box together.

From the above description it will be seen that

there has been provided a box of relatively simple structure which can be readily and conveniently folded from a blank such as shown in Fig. 1. After the box is folded to provide two body portions the handle can be simply and quickly placed into a carrying position, the handle at the same time providing means for effectively holding the two parts of the box together. The parts do not have to be tied together by a string or other means as heretofore has been necessary in cardboard boxes of this type. Obviously a box of this type is not only durable and more effective than boxes heretofore provided, but greatly lessens the time required in packing garments as it is not necessary to tie the box with string and after tying the box with string to attach a handle to the string for carrying purposes.

Referring to Fig. 6, there is shown a modified form of the invention in which the top wall 5 of the body portion is provided intermediate its length with a slit 30 adjacent the free edge 31 of the wall. At the ends of slit 30 there are provided communicating slits 32 at right-angles to slit 30, and at the ends of slits 32 there are provided apertures 33, which are so arranged that when the box is in a closed position, said apertures 33 will lie substantially beneath the apertures 19 in the wall 7 of the cover.

In attaching the handle, the portion 16 is forced upwardly through the slit 30 and then the legs 15 are moved through slits 32 until they rest in the apertures 33. The handle portion 17, when the box is in a closed position, is then pulled upwardly through slit 18 as above described. With this form of the invention, there is no possibility of the handle falling through the slits as the part 16 will rest upon the wall 5, should the handle accidentally, through constant use of the box, fall through the slit 18.

While the wall 7 has been above described as having flaps 21 with wings 22 for securing the cover to the body portion such flaps may, if desired, be dispensed with as when the box is in a closed position and the handle is inserted in place as shown in Fig. 2, the handle provides a positive means for holding the two parts of the box together.

The foregoing disclosure is to be regarded as descriptive and illustrative only, and not as restrictive or limitative of the invention, of which, obviously, embodiments may be constructed, including many modifications without departing from the spirit and scope of the invention, herein set forth and denoted in the appended claims.

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

1. In a cardboard box having a body portion and a cover, the top wall of said body portion having a slit extending longitudinally thereof intermediate its length, said cover having a top wall having a slit extending longitudinally thereof intermediate its length and an aperture therein at the mid-portion of the slit, and a U-shaped handle adapted to be passed upwardly through the slits in said walls, the legs of said U-shaped handle having outwardly directed extensions adapted to engage the under surface of the top wall of the body portion.

2. In a cardboard box formed from a blank having scorings thereon to enable it to be folded to form walls of a cover and a body portion, a U-shaped handle, said body portion having a top wall provided with a slit through which said handle passes, the legs of the handle being provided with outwardly directed extensions engaging the underside of said top wall to limit the upward movement of the handle, and a top wall of the cover having a slit therein through which the handle passes, the slit in the top wall being provided with an aperture at the center thereof to facilitate grasping of the handle to pull it through the slit in the top wall of the cover.

3. In a cardboard box having a body portion and a cover, a top wall of the body portion having a longitudinal slit intermediate the length thereof and adjacent the free edge of the wall, right-angularly directed slits communicating with said first-mentioned slit, a U-shaped handle adapted to be passed through the first-mentioned slit and moved through the right-angled slits to the extremities thereof, the legs of said U-shaped handle having outwardly directed extensions adapted to engage the underside of said wall and limit upward movement of the handle, and a top wall for the cover having a slit intermediate its length through which said handle is adapted to pass, said slit and the top wall of the cover being provided with an aperture to facilitate grasping of the handle.

CHARLES A. STOPPER.