

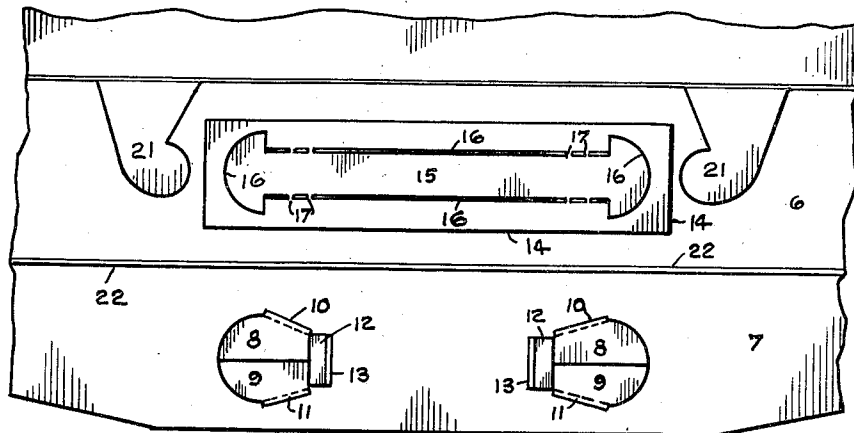
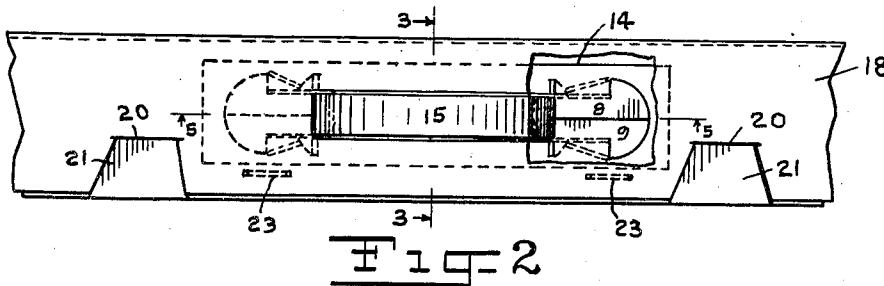
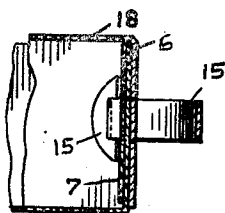
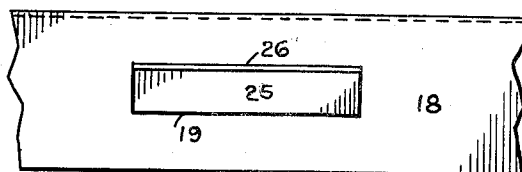
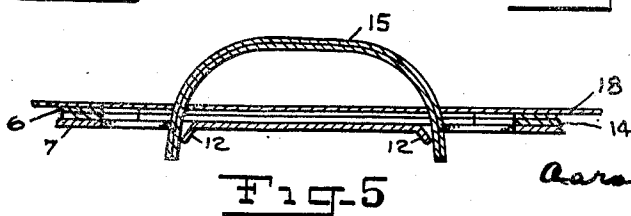
July 4, 1939.

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2,164,561

HANDLE BOX

Filed Aug. 20, 1937



INVENTOR.

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UNITED STATES PATENT OFFICE

2,164,561

HANDLE BOX

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Application August 20, 1937, Serial No. 160,115

10 Claims. (Cl. 229—52)

My invention relates to improvements in boxes, and more particularly to means in combination therewith for providing a handle therefor, and especially refers to collapsible paper boxes with handles.

In the accompanying drawing, I have illustrated in Fig. 1 in plan view, part of the blank of a paper box embodying an application of my invention. Fig. 2 is a top view of part of the box, parts being broken away. Fig. 3 is a cross-section on the line 3—3 of Fig. 2. Fig. 4 a top view of the outer part of the box, and Fig. 5 a longitudinal section through the handle and top of the box.

The box may be of the conventional cloak and suit type, comprising inner and outer halves hinged at the bottom. The inner top portion 6 may be provided with a turned-under flap 7, having flaps 8, 9, scored and hinged at 10, 11, and flaps 12, scored and hinged at 13. Beneath the inner top portion 6 may also be secured a reinforcing piece of card 14, perforated at 16, in register with the handle of inner top 6, to provide a two-ply handle 15 of double thickness. This handle is preferably not cut entirely through or separated, small retaining pieces 17 remaining to hold the handle in place until used.

The outer top portion 18 of the box may be provided with a rectangular hole or opening 19, through which the handle projects when in use, the same being covered by flap 25 hinged at 26, and slits 20 may also be provided in the top portion of the box for the hook-like flaps 21, which may be passed therethrough to hold the box in closed position. The hook like flaps are tabs formed by cuts in the outer ply of the inner top portion 6 of the box, as shown in Fig. 1. These tabs are pulled into vertical position before the wall 18 of the outer part of the box is moved into position over the wall 6 of the inner part of the box; and the tabs 21 are then bent down over wall 18 and pushed through the slits 20. The blanks may be stacked flat or in folded position until used.

When forming the box for use, the flap 7 is turned under the inner top portion 6, being hinged thereto along the score 22, this bringing the flaps 8, 9 immediately beneath the enlarged ends of the handle 15. By now pressing said ends beyond the flaps 8, 9 at the same time breaking the small pieces 17, and drawing back on the handle, the lateral extensions of the handle ends extend laterally beyond the opening left by the flaps 12, thereby securely holding the handle in position, and the center or bar of the handle may

now be passed through the opening 19 of the outer portion of the box, which slidably fits over the inner portion, and as an additional means for securing the box in closed position the hook-like flaps 21 may be passed through the slits 20, and of course metal stitches 23 or any other suitable means may be employed to secure the turned-under portion 7 to the top portion 6 of the inner top portion of the box.

Of course it will be understood that various modifications may be made in the construction and arrangement of parts without departing from the spirit of the invention, as claimed.

I claim:

1. A handle box of flexible sheet material, comprising a body, a portion of one wall of which is of two-ply construction, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of the plies being cut to permit the handle ends to be pressed therethrough, and means on the inner ply for interlockment with the handle ends, to hold the handle to the box.

2. A handle box of flexible sheet material, comprising a body, a portion of one wall of which is of two-ply construction, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of the plies being cut to permit the handle ends to be pressed therethrough and having slots for interlockment with the handle ends and along which the handle ends may be forced toward each other to cause the handle to be protruded from the box surface for gripping purposes.

3. A handle box of flexible sheet material, comprising a body, a portion of one wall of which is of two-ply construction, the outer of said plies having incompletely severed therein an enlarged-ended strap to serve as a handle for the box, and the inner of said plies being cut to permit of passage therethrough of the handle ends, upon pressure sufficient completely to sever the attachment of the handle to the outer ply, and means on the inner ply for interlockment with the handle ends, to hold the handle to the box.

4. A handle box of flexible sheet material, comprising a body, a portion of one wall of which is of two-ply construction, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of the plies being slotted to form yieldable elements which permit the handle ends to be pressed therethrough, and which upon subsequent pull on the handle, interlock with the han-

dle ends and are held by the outer ply to hold the handle to the box.

5. A handle box of flexible sheet material, comprising an inner part, and an outer part, one of the walls of the inner part being in two plies, one ply whereof is a flap extension of the other ply, folded against the inside thereof in the erection of the box, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of said plies being slotted to form yieldable elements which permit of passage of the handle ends through the inner ply, and which, upon subsequent pull on the handle, interlock with the handle ends and are held by the outer ply, to hold the handle to the box.

6. A handle box of flexible sheet material, comprising an inner part, and an outer part, one of the walls of the inner part being in two plies, one ply whereof is a flap extension of the other ply, folded against the inside thereof in the erection of the box, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of said plies being cut out to permit passage therethrough of the handle ends, and means on the inner ply for interlockment with the handle ends, to hold the handle to the box.

7. A handle box of flexible sheet material, comprising an inner part, and an outer part, one of the walls of the inner part being in two plies, one ply whereof is a flap extension of the other ply, folded against the inside thereof in the erection of the box, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, the inner of said plies being cut in registration with the handle-end cuts in the outer ply, to permit the handle ends to be pressed through the inner ply, and means on the inner ply for interlockment with the handle ends, thereupon to hold the handle to the box.

8. A handle box of flexible sheet material, comprising an inner part, and an outer part, one of the walls of the inner part being in two plies, one ply whereof is a flap extension of the other ply, folded against the inside thereof in the erection of the box, the outer of said plies having cut or

stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of said plies being cut to permit passage therethrough of the handle ends, means on the inner ply for interlockment with the handle ends, to hold the handle to the box; the outer part of the box having a wall adapted to overlie the handle-bearing wall of the inner part of the box when the box is closed, and having a slot therein in registration with the strap portion of the handle, whereby such strap portion may be drawn through the slotted wall of the outer part of the box for hand grip, after the handle ends have locked as aforesaid.

9. A handle box of flexible sheet material, comprising a body, a portion of one wall of which is of two-ply construction, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of the plies being cut to permit the handle ends to be pressed therethrough, and means on the inner ply for interlockment with the handle ends, to hold the handle to the box; the outer ply, at the part thereof from which the handle is to be cut, having secured thereto a strip of reinforcing material, whereby to give added strength to handle as finally formed therefrom.

10. A handle box of flexible sheet material, comprising an inner part, and an outer part, a portion of one wall of the inner part being of two-ply construction, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of the plies being cut to permit the handle ends to be pressed therethrough, means on the inner ply for interlockment with the handle ends, to hold the handle to the box, and the outer part of the box having a wall adapted to overlie the handle-bearing wall of the inner part of the box when the box is closed, and having a slot therein in registration with the strap portion of the handle, whereby such strap portion may be drawn through the said slot in the wall of the outer part of the box, for hand grip, after the handle ends have been locked as aforesaid.

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