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FOLDING BOX WITH HANDLE

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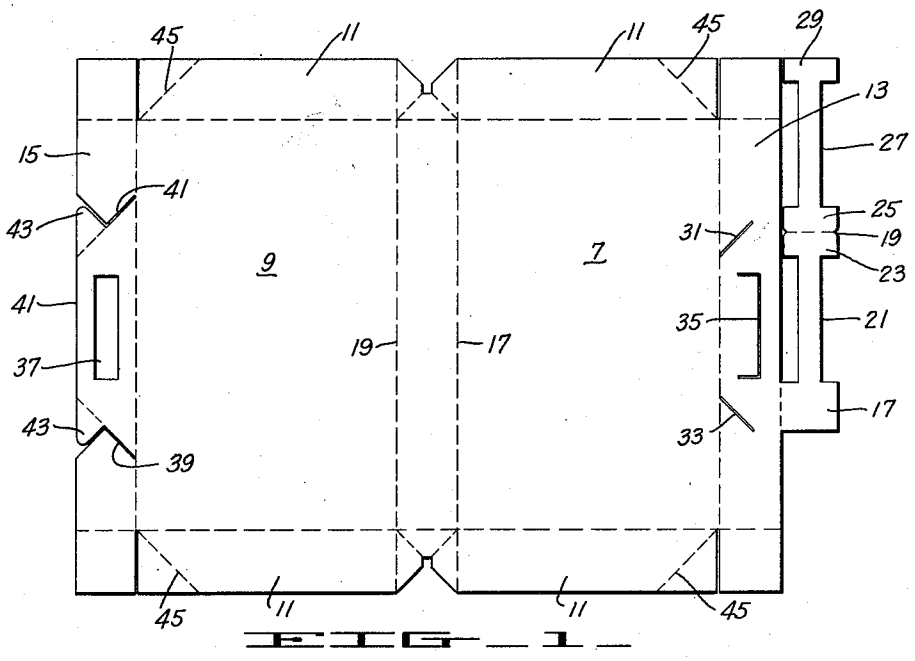



FIG. 1

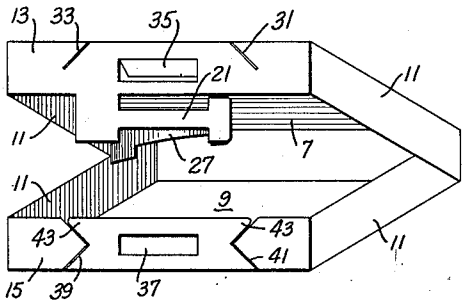



FIG. 2

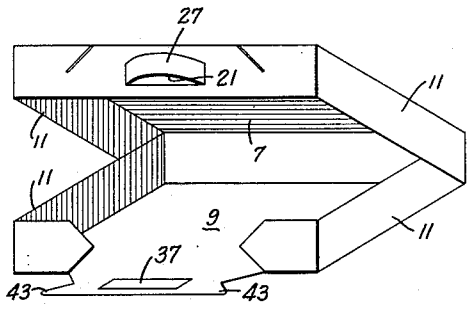



FIG. 3

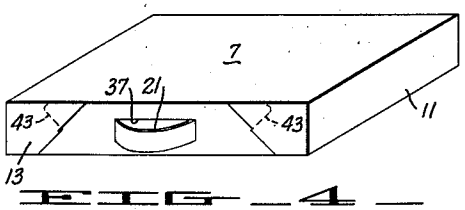



FIG. 4

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# FOLDING BOX WITH HANDLE

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Application May 20, 1953, Serial No. 356,238
1 Claim. (Cl. 229—52)

This invention relates to a handle for a box and for a box having tabs which cooperate with the handle to keep the box closed. The invention is particularly directed to a box having an integral handle and wherein slots are provided adjacent to the handle which cooperates with slots on an opposite side of the box to make a box which is simple to manufacture and which has a positive closing means. The invention is primarily applicable to boxes of cardboard, but may be applied to boxes of other materials.

It is highly desirable to provide a box for merchandise which may be easily carried. In this manner, purchasers are encouraged to carry purchases rather than having them delivered, which results in a considerable saving to the merchant. In the past, a number of box handles have been proposed, but ordinarily these handles have added to the expense of the box and have been detachable. When detachable handles are used, there is always the possibility that the handle will become lost and the use of detachable handles requires extra storage space and record keeping. Further, it is highly desirable to provide a box with a positive locking mechanism so that it is not necessary to use string or tape to fasten the box together.

It is an object of the present invention to provide an inexpensive handle for a box which is integral with the box.

Another object of this invention is to provide a handle which also serves to fasten the box in closed position.

Still another object is to provide a box having tabs thereon wherein the tabs cooperate with the handle to ensure positive locking of the box.

In the drawings:

Figure 1 is a plan view of a sheet of blank stock showing the manner in which the box of the present invention is cut from a sheet of stock.

Figure 2 is a perspective view of a box of the present invention in partially assembled form.

Figure 3 is a view similar to Figure 2 in which the handle has been completely asembled and the box is ready for closing.

Figure 4 is a view similar to Figure 3, in which the box has been closed, showing the position the handle and flaps assume upon closing.

Referring now to the drawing by reference characters, in the blank of Figure 1, a sheet of box stock is provided which is cut-out as shown. Actual cuts are made on solid lines and the box is adapted to be folded on the dash lines. According to this embodiment, the blank has a bottom portion **7**, a top or cover portion **9**, end portions **11**, and side closing portions **13** and **15**. The box thus far described is largely conventional in construction and the parts will not be described in detail. The box of the present invention is of the hinged lid type, the hinging action being accomplished by the fold lines designated **17** and **19**, and for the exact manner of folding the box, reference is made to our copending patent application, Serial No. 332,354, filed January 21, 1953.

On the side closing portion **13**, a tab **17** is provided to which is attached a handle portion, generally designated **19**. The handle **19** consists of a central portion **21**, second and third tab portions **23** and **25**, a second handle portion **27**, and another tab section **29**.

In addition, the side portion **13** has two angular slots, designated **31** and **33**, cut therein. Further, the side portion **13** has a rectangular slot **35** therein.



The side portion **15** has a hole **37** cut therein, which is slightly wider than the handle portion **21**, and also slightly shorter than handle portion **21**. Additionally, the side portion **15** has two V-shaped slots **39** and **41** cut therein. This leaves an intact central portion **41**, the ends of which may be rounded as at **43**, to provide tabs.

In assembling the box, one first assembles the corners in the conventional manner, and then folds the handle portion so that the part **27** overlies the part **21**. Thus, the parts assume the position shown in Figure 2. The handle portion is then folded over so that the tab **17** overlies the end **13** and the handle portions **21** and **27** are pulled through the opening made by the slot **35**. The box then assumes the appearance shown in Figure 3. If it is desired to ship the box in knocked-down condition, the box may now be folded flat on the lines designated **45**. Thus, the box can be partially assembled and then flattened for shipment. To complete assembly of the box, the handle portion **21** and **25** is passed through the slot **37**, and the tabs **43** inserted in the slots **31** and **33**.

The box is now closed and the top locked securely in position.

If desired, the box may be made with a single handle rather than the double handle illustrated. To make the box in this manner, parts **25**, **27** and **29** would be omitted.

Although the box has been described as being made from a one-piece blank, two or more sheets can be fastened together for forming the box.

It is believed apparent from the foregoing that we have described a handle fold box wherein the side of the box is provided with tabs which cooperate with the handle forming a box which is inexpensive to manufacture, which may be opened and closed an unlimited number of times, which has an integral handle and which does not require any additional fastening means to keep it closed.

This application is a continuation-in-part of our application Serial No. 332,354, filed January 21, 1953.

We claim:

A box construction having a handle, comprising: a flat blank of box stock having foldable panels one of which is destined to overlie the other in a finished box; said blank including an integral handle portion comprising a pair of aligned flat handle straps of the same length having laterally enlarged end portions, adjacent enlarged end portions being foldably connected whereby said straps may be positioned in overlying relation to form a 2-ply handle, the other enlarged end portion of one of said straps being foldably attached to the edge of said other panel with said straps parallel to and spaced from said edge, said other panel having as lot therein parallel to said edge and defining transverse edges slightly wider than said strap and spaced from said edge a distance substantially equal to the distance of said strap therefrom, one of said transverse edges being aligned with the end of said one strap at said attached enlarged end portion, and said slot being of less length than said straps, said one panel having a rectangular opening therein of a length substantially equal to the length of said slot and arranged to overlie said slot in the finished box.

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