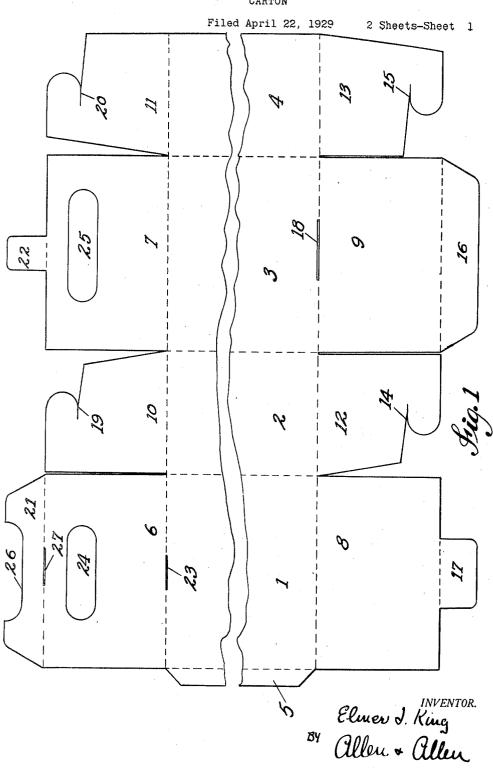
CARTON

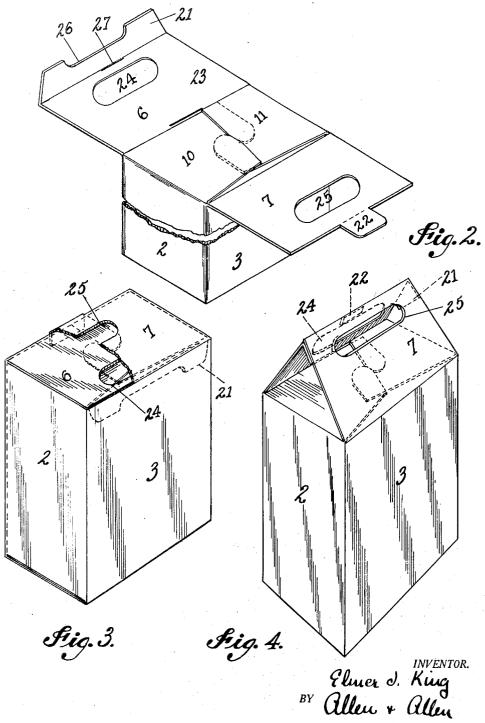


ATTORNEY**S**

CARTON

Filed April 22, 1929

2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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CARTON

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My invention is addressed to the production of a folding carton with flap closures which are adapted to be used in the ordinary way, but where desired can be opened g out and made into a handle or bail for carrying the carton. Such cartons are conveniently used for shipping articles or groups of articles making up a moderately bulky package designed to be sold without division of 10 the contents. My carton, when filled, may be packed in the ordinary wooden, corrugated or solid fiber shipping case and shipped to the retail dealer. When the sale is made, the customer or the dealer can form the top 15 flaps of the carton into the aforementioned handle, making it convenient for the buyer to carry away his purchase.

It is my object in such a carton to provide for satisfactory strength when the box is 20 closed as in shipment, and also when the first two top flaps are in the handle forming position.

These and other objects of my invention, I accomplish by that certain construction and 25 arrangement of parts of which I shall now describe a preferred embodiment, reference being had to the drawings accompanying these specifications.

In the drawings:

Figure 1 is a plane view of the blank from which my cartons are cut.

Figure 2 is a perspective view showing the innermost top flaps engaged, but the outermost top flaps not yet closed.

Figure 3 is a perspective view with portions of the top flaps cut away showing my carton in a closed positon for shipment. Figure 4 is a view showing my carton with

the outermost top flaps set up into handle

40 position for carrying.

In Figure 1, I have shown a blank having ordinary side and end wall forming portions indicated respectively as 1, 2, 3 and 4. It will be understood that the shape and size of the carton may vary and that my invention is not limited by dimensional restrictions. The blank has the ordinary glue flap 5 and is provided with a series of side closing flaps 6 to 9 inclusive and end closing flaps 50 10 to 13 inclusive. Inasmuch as my carton

may frequently be desired for use with heavy articles such for example as filled bottles, I provide a flap construction particularly on the bottom designed to give greater strength. My invention is not restricted to 55 this however and other types of closing flaps are equaly adaptable for use in my carton. I may for example, make the ordinary sealing flaps on the carton bottom and cause these to be sealed on an automatic sealing 60 machine in the well known manner. In the embodiment shown, I have indicated end closing flaps 12 and 13 which are provided with hook engagement portions 14 and 15 so that when these flaps are folded over, they may 65 be engaged as will be readily understood. The flap 9 has an ordinary tuck end portion 16 which engages over the slanting edges of the flaps 12 and 13. The flap 8 is provided with a tongue 17 which after the other flaps to have been closed is adapted to be inserted into a clit 18 in the limit of the into a slit 18 in the line of articulation between the side wall 3 and the flap 9. In Figure 1, dotted lines indicate lines of score while solid lines indicate lines of cut. It 75 will be clear that the flaps 8 and 9 are preferably to be made co-extensive in area with the bottom of the carton.

The upper end closing flaps 10 and 11 are also preferably provided with hook or lock portions 19 and 20 so that these flaps when bent over (after the carton has been filled) may be engaged as shown clearly in Figure 2, to form a closure for the top of the carton irrespective of the other two top flaps.

The closure flap 6 has a tuck end portion 21 serving the same function as the portion 16 of the flap 9; and the flap 7 has a tongue 22 serving the same purpose as the tongue 17 on the flap 8 and operating through a so slit 23 in the line of articulation between the side wall 1 and the closing flap 6. Hand hole portions 24 and 25 are cut in the flaps 6 and 7, and in the tuck end portion 21 there is formed a corresponding cut out 26 for a ss purpose which will presently be described. In the line of articulation between the tuck end 21 and the closure flap 6 there is a slit 27 adapted also to receive the tongue 22. It will be used as hereinafter described when the

the upper closure flaps are set up to form a handle for the carton. The tongue 22 is preferably made quite narrow so as not to weaken the handle forming portion of my carton. The flaps 6 and 7 will again be coextensive in area with the top of the carton.

The manner of closing the bottom of the carton will be obvious and need not be described by me. After the carton has been 10 filled the top flaps 10 and 11 may be interengaged as shown in Figure 2. For shipment, the flap 6 will then be folded over with the tuck end portions thrust down between the side wall 3 and the edges of the flaps 10 and 11. Then the flap 7 will be folded over and the tongue 22 inserted in the slit 23. The box will now be in fully closed position as is illustrated in Figure 3. It will be noted that the handle openings 20 24 and 25, occurring near the top edges of the flaps 6 and 7 are offset from each other so that the tightness of the closure of the carton top is not impaired. This feature is not necessary however inasmuch as the flaps 10 25 and 11 form a satisfactory closure for all but

siftable bodies within the carton. When it is desired to use the carton for carrying, as when a purchaser has bought the article or articles which it contains and desires to carry them home, the flaps 6 and 7 are disengaged and brought up from their position in the plane of the top of the carton, until their top edges come together and they form two faces of a pyramidal figure above 35 the carton top. This is well illustrated in Figure 4. The tuck end portion 21 now lies adjacent to and beneath the flap 7, and it will be clear that the cut out portion 26 was made so that the member 21 would not cover 40 a part or all of the hand hole 25. The tongue 22 is now inserted in the slot 27 instead of the slot 23 and the handle forming structure is in set up position. The fingers of the hand may be inserted through the holes 24 45 and 25 and the box carried as an ordinary basket or pail. Sufficient board is left between the tops of the flaps 6 and 7 and the hand holes 24 and 25, to give the necessary strength, and both strength and rigidity are 50 imparted to the handle structure by the turn over of the tuck end porion 21, as well as

Various modifications in my invention may be made without departing from the spirit

by the interlocking structure.

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

1. A carton formed from a blank having 60 side and end walls and side and end closure flaps, an opposite pair of said closure flaps being perforated to form handles, said flaps being of substantially the same area as the top of said carton and adapted to lie at an angle thereto when their upper edges are

brought together, a tuck end portion upon one of said flaps adapted when said flaps are in handle forming position to lie at an angle to the flap to which it is attached and form a stiffening part of the handle structure and 70 means for locking said flaps together in han-

dle forming position.
2. A carton formed from a blank having side and end walls and side and end closure flaps, an opposite pair of said closure flaps be- 75 ing perforated to form handles, said flaps being of substantially the same area as the top of said carton and adapted to lie at an angle thereto when their upper edges are brought together, a tuck end portion upon one of said 80 flaps adapted when said flaps are in handle forming position to lie at an angle to the flap to which it is attached and form a stiffening part of the handle structure and means for holding said flaps together in handle form- 85 ing position, said means comprising a tongue on one of said flaps and a slit to receive said tongue in the line of articulation between said tuck end portion and the flap to which it is at-

3. A carton formed from a blank having side and end walls and side and end closure flaps, an opposite pair of said closure flaps being perforated to form handles, said flaps being of substantially the same area as the top of said carton and adapted to lie at an angle thereto when their upper edges are brought together, a tuck end portion upon one of said flaps adapted when said flaps are in handle forming position to lie at an angle to the flap to which it is attached and form a stiffening part of the handle structure and means for holding said flaps together in handle forming position, said means comprising a tongue on one of said flaps and a slit to re- 105 ceive said tongue in the line of articulation between said tuck end portion and the flap to which it is attached and means upon the other pair of flaps to form a locking closure for said carton.

4. A carton formed from a blank having side and end wall portions and side and end closing flaps, at least one end of said carton having a pair of locking flaps, a flap with a tuck end, and a flap with a tongue, the line 115 of articulation between a wall and the flap having tuck end being provided with a slit for the reception of said tongue, and hand holes in said two last mentioned flaps whereby said flaps may be positioned angularly above 120 said carton end to form a bail-like handle.

5. A carton formed from a blank having side and end wall portions and side and end closing flaps, at least one end of said carton having a pair of locking flaps, a flap with a 125 tuck end, and a flap with a tongue, the line of articulation between a wall and the flap having tuck end being provided with a slit for the reception of said tongue, and hand holes in said two last mentioned flaps 130

whereby said flaps may be positioned angularly above said carton end to form a bail-like handle, the line of articulation between said tuck end portion and the flap to which it is attached being provided with a slit to receive said tongue whereby said flaps may be locked in handle forming position.

may be locked in handle forming position.

6. A carton formed from a blank having side and end wall portions and side and end closing flaps, at least one end of said carton having a pair of locking flaps, a flap with a tuck end, and a flap with a tongue, the line of articulation between a wall and the flap having tuck end being provided with a slit for the reception of said tongue, and hand holes in said two last mentioned flaps whereby said flaps may be positioned angularly above said carton end to form a bail-like handle, the line of articulation between said tuck end portion and the flap to which it is attached being provided with a slit to receive said tongue whereby said flaps may be locked in handle forming position, said tuck end portion cut away to clear said handle openings.

25 handle openings. 7. A carton formed from a blank having side and end wall portions and side and end closing flaps, at least one end of said carton having a pair of locking flaps, a flap with a tuck end, and a flap with a tongue, the line of articulation between a wall and the flap having the tuck end being provided with a slit for the reception of said tongue, and hand holes in said two last mentioned flaps where-35 by said flaps may be positioned angularly above said carton end to form a bail-like handle, the line of articulation between said tuck end portion and the flap to which it is attached being provided with a slit to receive 40 said tongue whereby said flaps may be locked in handle forming position, said tuck end portion cut away to clear said handle openings, the other end of said carton being formed with a pair of locking flaps, a tuck end flap 45 and a flap provided with a tongue, the line of articulation between a wall and said tuck end flap being provided with a slit for the reception of said tongue.

ELMER J. KING.

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