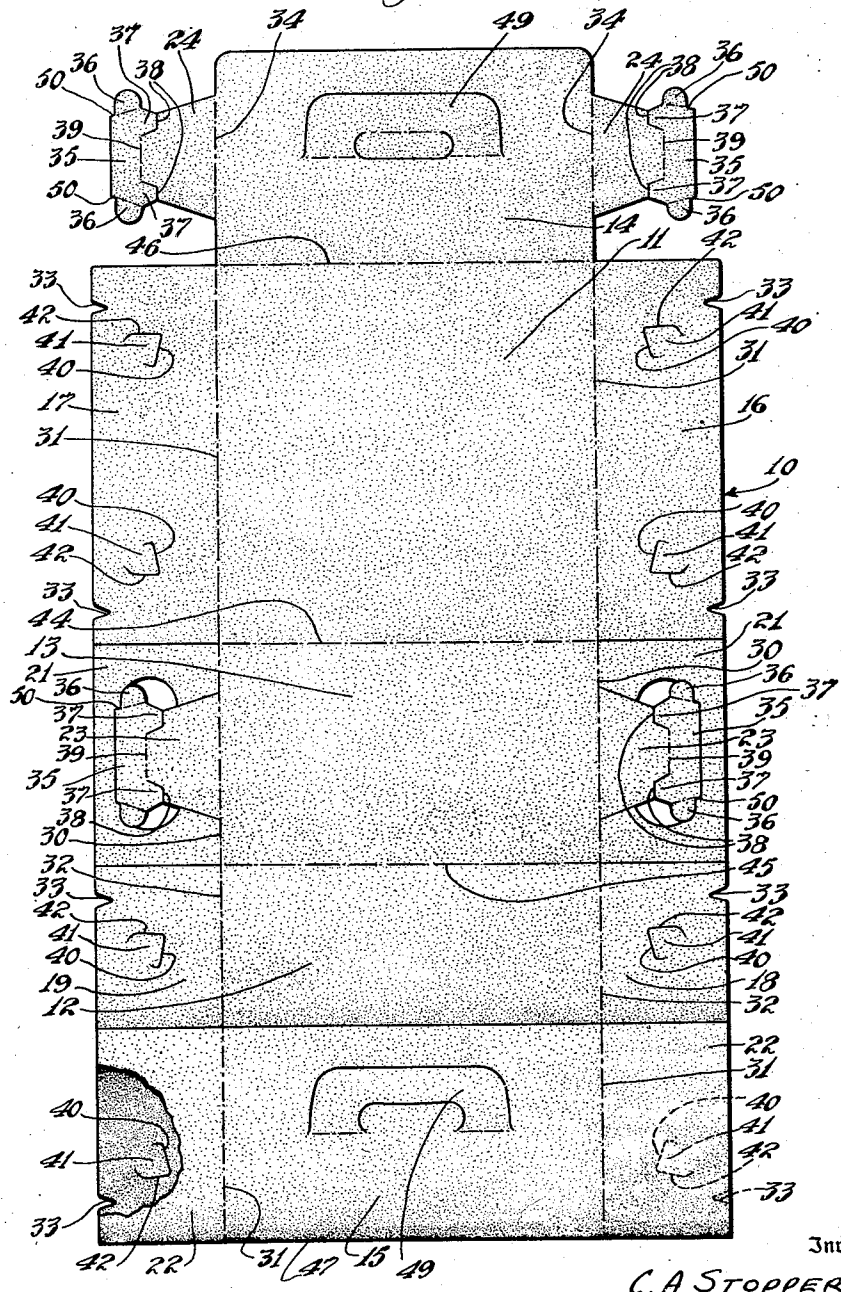
May 14, 1946. C. A. STOPPER 2,400,443

PORTABLE CARTON

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Fig. 1



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Fig. 2

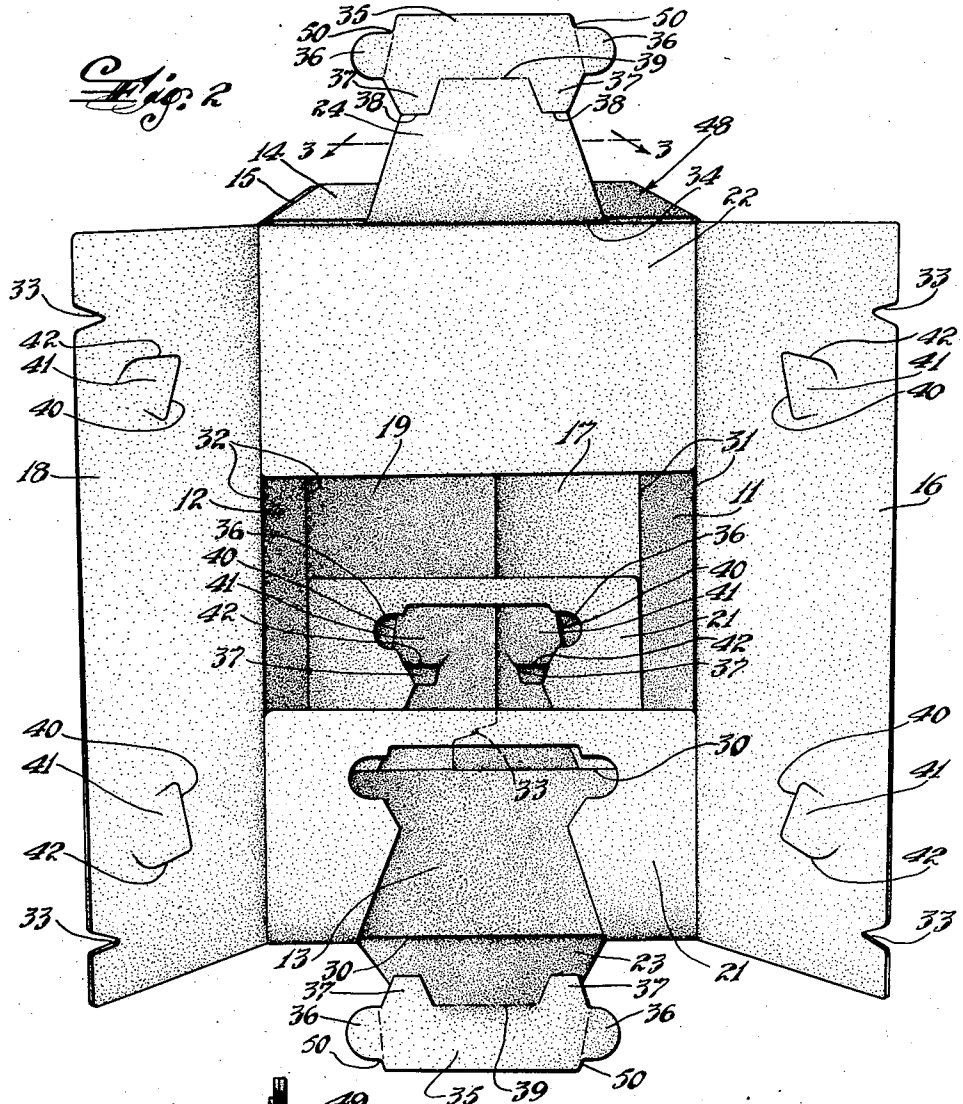
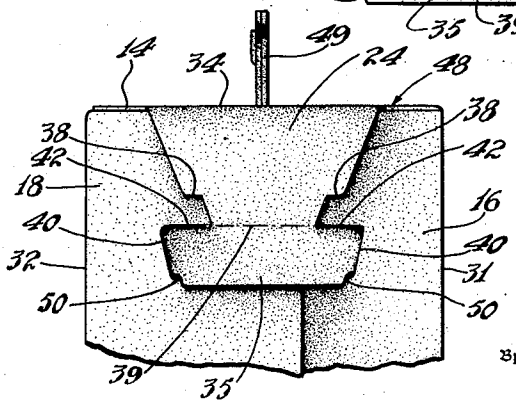


Fig. 3



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2,400,443

PORTABLE CARTON

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Application April 22, 1944, Serial No. 532,279

2 Claims. (Cl. 229—39)

This invention relates to improvements in portable cartons, such as are used for carrying articles of merchandise and the like.

An object of the invention is to provide a portable carton which may be formed of a single blank of material adapted to be shipped in flat condition and to be readily assembled for use without necessitating the utilization of staples or other extraneous holding means.

A further object of the invention is to provide a carton of the character described which is provided with interlocking means for closing the ends of the carton in such manner as to preclude the accidental opening thereof when the carton is subject to jarring impacts.

The carton of the invention is intended especially for use in carrying women's millinery, and for that purpose it has been found to be especially advantageous in that it provides against accidental opening of the ends of the carton when the same is subjected to impacts from any direction which tend to cause the ends of cartons to open. At the same time, the arrangement of the interlocking members which form the closed ends of the carton is such as to enable the same to be readily manually engaged or disengaged by the user.

A further object of the invention is to provide a carton of the character described which can be readily manufactured by the use of simple tools and dies from inexpensive flat stock of any desired or convenient material.

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

Fig. 1 is a top plan view of a blank embodying my invention in generally flat position, partly folded and partly broken,

Fig. 2 is an end elevational view of a carton formed from the blank shown in Fig. 1, in partly assembled position, and

Fig. 3 is a fragmentary end elevational view taken on lines 3—3 of Fig. 2 in the direction of the arrows.

As shown in the drawings, the device of my invention is preferably made from a single blank of suitable material generally designated by the numeral 10 and preferably divided by score lines and cuts, as shown in the drawings, to define panels 11 and 12, which, in the assembled carton, constitute the sides thereof, and a panel 13 intermediate said side panels, which, in the assembled carton, defines the bottom thereof. The side panels 11 and 12 are provided with integrally depending flap portions 14 and 15 which, in the assembled carton, are adapted to be juxtaposed in overlapping registering relation to define the top of the carton.

The ends of the carton are formed of the portions which depend from both longitudinal edges of the parts above described, namely, ledge members 21 secured to the bottom panel 13 by score lines 30 and adapted, in the assembly of the carton shown in Fig. 2, to be folded at right angles to said bottom portion of the carton, and ledge members 22 secured to one of the top flaps 15 and adapted, in the assembly of the carton, to be folded at right angles to said top flap as shown in Fig. 2. The end wall members 16 and 17 are secured to the side panel 11 by score lines 31 and similar end wall members 18 and 19 are secured to the other side panel 12 by score lines 32. Said end wall members are provided with aligned marginal notches 33 of preferably V-shape so that when the end wall members are folded in the assembly of the carton, the slotted portions thereof are adapted to have interlatching engagement to register the said end walls in initially latched position.

This arrangement serves to prevent displacement of said end walls in a vertical plane when the carton is in the position shown in the remote interior end view seen in Fig. 2, but does not provide against the lateral displacement of said end members. To preclude the lateral displacement of said end members, the bottom panel 13 and one of the top flaps 14 are provided with arms 23 and 24 respectively, secured thereto by score lines 30 and 34 respectively so that the arms are adapted to be folded at right angles to the top flap 14 and to the bottom panel 13 in the assembly of the carton as shown in Fig. 3, for interlatching engagement with the end wall members 16—19 in a manner presently more fully described. Each of the arms 23 and 24 is provided with a terminal portion 35 bendable at right angles to the said arm, the said terminal portion having tabs 36 at the marginal side edges thereof, and tabs 37 disposed intermediate said tabs 36 and the arm 24 and adapted when bent to occupy a position at 90° to the position occupied by the tabs 36. The tabs 37 are formed by marginal slits 38. The terminal portion 35 of the arm 24 is secured to the latter at the score line 39 and is adapted to be bent at right angles thereto for facility of insertion of tabs 36 and 37 in the portions 40 and 42 of the V slits 41 in end wall

member 17. It will be understood that the parts correspondingly numbered in the drawings are of the same characteristics.

In assembling the carton from the blank shown in Fig. 1, the side panels 11 and 12 are folded upwardly in spaced, parallel, relation at the score lines 44 and 45 connecting the same to the bottom panel 13 and the top flap portions 14 and 15 are folded at right angles to the side panels 11 and 12 along the score lines 46 and 47 thereof, said top flap portions being adapted to be folded in juxtaposed closely adjacent parallel relation so as to define a substantially unitary top portion, generally designated by the numeral 48, of double thickness, to provide ample support for the handle elements which are generally designated at 49 and which may be of any desired or convenient form. The ledge members 21 and 22 are folded at right angles to the bottom panel and top flap of the carton and the end wall members 16—19 are folded inwardly toward each other and the marginally notched portions 33 thereof are interengaged to initially latch said end wall members together. Then the arms 23 and 24 are folded over the end walls, the terminal portions 35 of said arms are bent at the score lines 39 and the tabs 37 are inserted into the slits 42 of the end wall members and then the tabs 36 are folded and inserted into the slits 40 at right angles to tabs 37. It will be apparent from Fig. 3 that in the construction described the arms 23 and 24 engage the end wall members 16—19 in such fashion as to effectively prevent accidental displacement thereof regardless of the direction from which an impact or jarring motion may be imparted to the ends of the carton. At the same time it will be apparent that the user may open an end of the carton by simply disengaging the tabs 36 and 37 from the slits 40 and 42 and displacing the marginally notched portions 33 of the end wall members 16—19. The top flaps 14 and 15 may be secured together by any desired or convenient means such as for example by an adhesive or the like.

It will be noted that the tabs 36 and the terminal portions 35 of the arms define shoulder portions 50 so that when the said tabs are interengaged with the slits of the end wall members, as can be seen from Fig. 3, the shouldered portions 50 further serve to lock the parts together.

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

1. In a carton having top and bottom members and end wall members, the latter being provided with slits, an arm secured to one of said first mentioned members, and a terminal portion on said arm, tabs secured to the marginal side edges of said terminal portion and adapted to be bent into engagement with portions of said slits, and tabs also in said terminal portion defined by angular marginal slits extending inwardly from opposite sides of the arm and disposed intermediate the first named tabs and the arm and adapted to be bent into engagement with additional portions of the slits of the end wall members, to occupy a position substantially at right angles to that of the first mentioned tabs, to reenforce the end of the carton.

2. In a carton having top and bottom members and end wall members, the latter being provided with slits of V outline, an arm secured to one of said first mentioned members and a terminal portion on said arm bendable with relation to said arm at its point of securement thereto, tabs secured to the marginal side edges of said terminal portion and adapted to be bent into engagement with portions of said slits and tabs also in said terminal portion defined by angular marginal slits extending inwardly from opposite sides of the arm and disposed intermediate the first named tabs and arm and adapted to be bent into engagement with additional portions of the slits of the end wall members, to occupy a position substantially at right angles to that of the first mentioned tabs, to reenforce the end of the carton.

CHARLES A. STOPPER.