Jan. 10, 1950 W. P. FRANKENSTEIN 2,494,234

CARTON

Original Filed Aug. 20, 1945 3 Sheets-Sheet 1

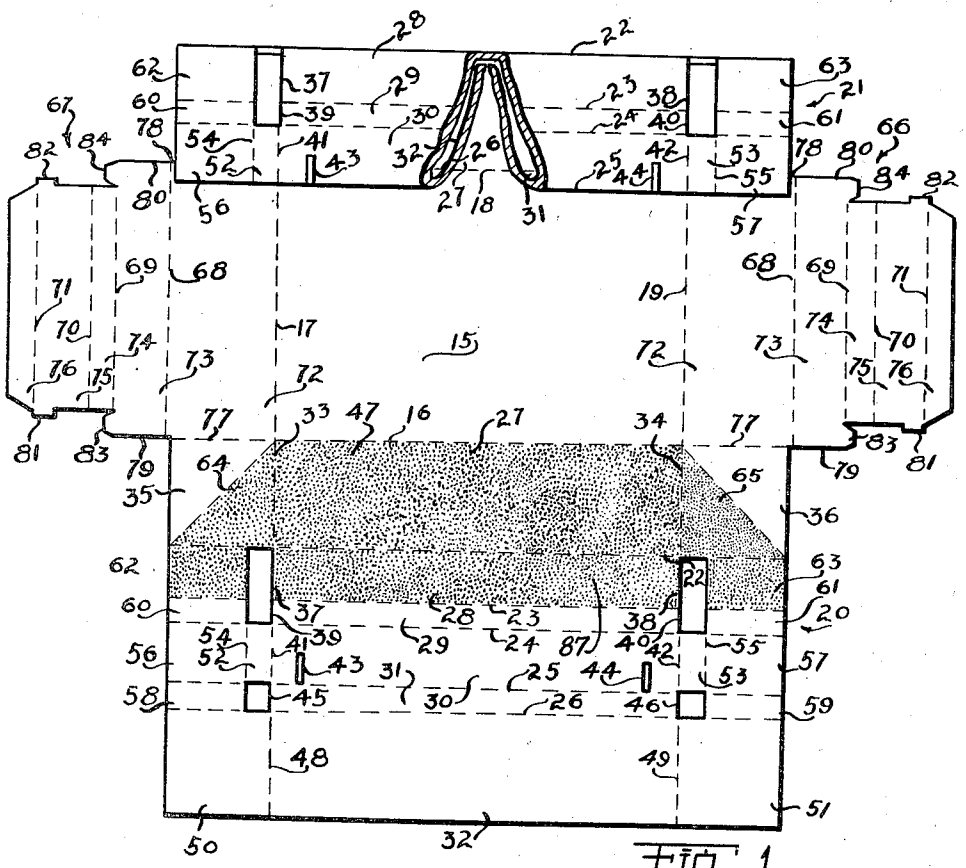

FIG. 1.

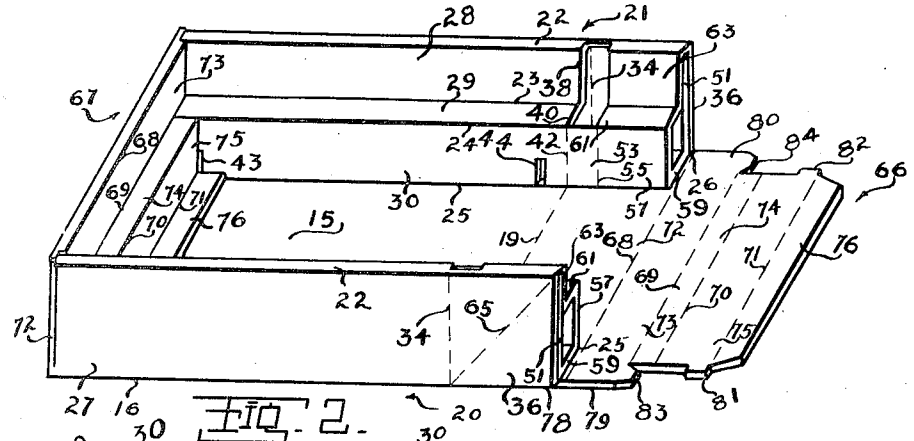

FIG. 2.

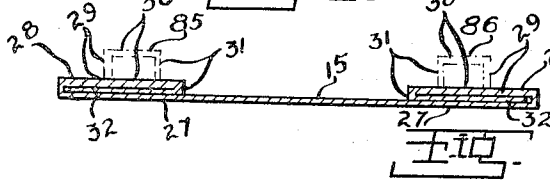

FIG. 3.

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CARTON

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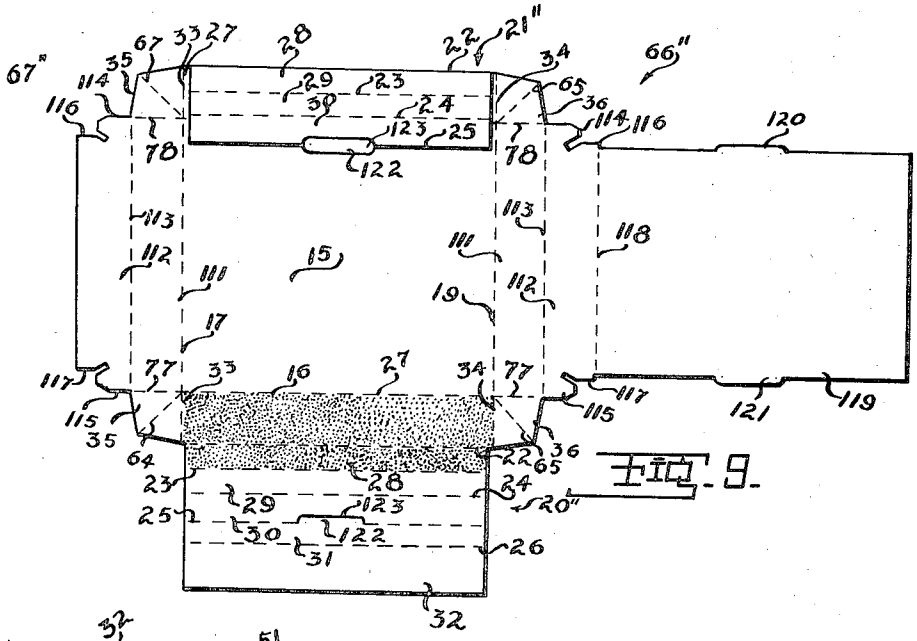

FIG. 9.

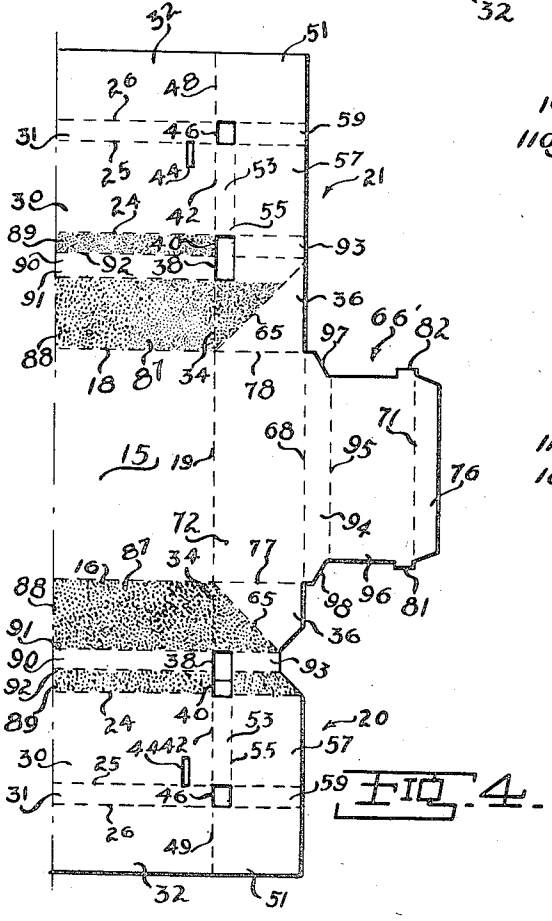

FIG. 4.

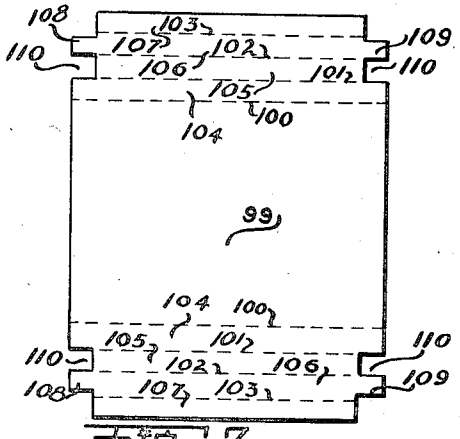

FIG. 7.

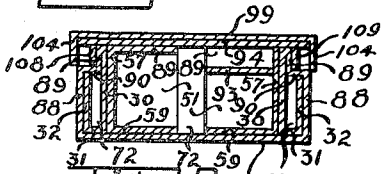

FIG. 8.

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Original Filed Aug. 20, 1945 3 Sheets-Sheet 3

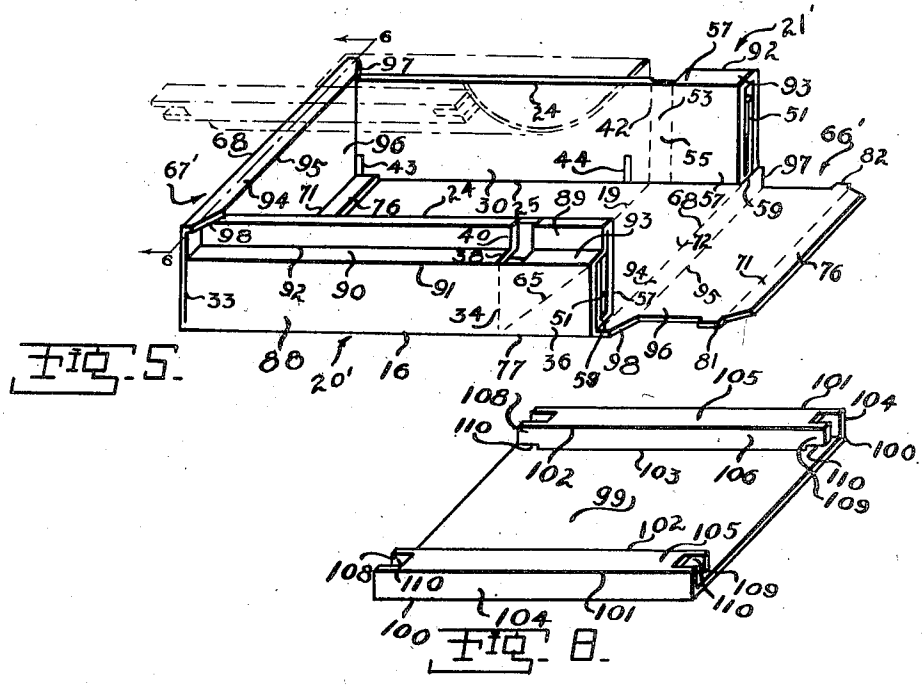

FIG. 5.

FIG. 8.

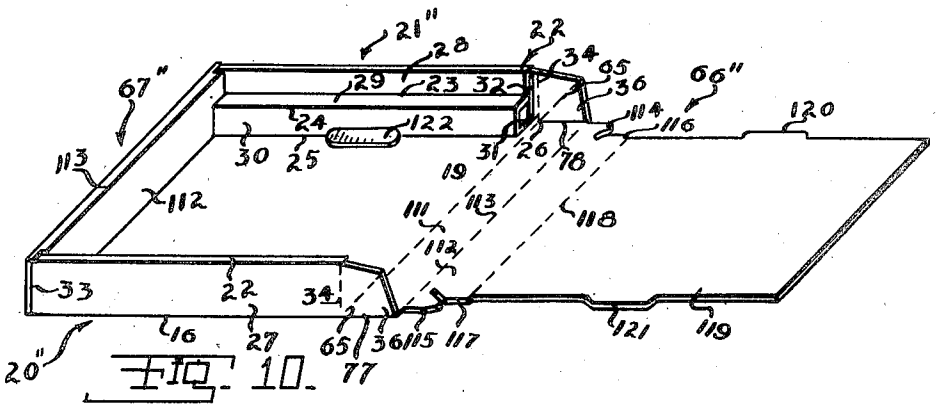

FIG. 10.

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2,494,234

UNITED STATES PATENT OFFICE

2,494,234

CARTON

William P. Frankenstein, Cincinnati, Ohio

Original application August 20, 1945, Serial No. 611,566. Divided and this application November 29, 1946, Serial No. 712,877

15 Claims. (Cl. 229—34)

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This invention relates to improvements in cartons and particularly to improvements in knocked-down cartons, that is, cartons cut or died from a single blank and having portions thereof secured to one another and folded, requiring but an unfolding of the blank to set up the carton for use.

The carton of the present invention is an improvement on the cartons such as disclosed in applicant's prior patents Re. 21,158 which issued July 25, 1939, and 2,397,934 which issued April 9, 1946.

This application is a division of applicant's pending application 611,566 filed August 20, 1945.

An object of this invention is the provision of a knocked-down carton or box embodying an improved construction, particularly, of the hollow or spaced apart wall thereof.

Another object of this invention is the provision of an improved construction in knocked-down cartons wherein there is provided a step or shoulder intermediate the heighth of one or more walls of the carton.

Another object of the present invention is the provision of an improved construction in knocked-down cartons such as set forth in the paragraph immediately preceding and whether the said step or shoulder is placed interiorly or exteriorly of the carton or its wall.

A further object of this invention is the provision of a carton of the hollow or spaced apart wall type having a step or shoulder intermediate one or more of the walls of the carton and in which the fold or score lines of the carton may be broken, that is, the portions thereof hingedly actuated relative to one another, prior to the setting up of the same and which score breaking can be readily done by the user instead of by the manufacturer as was the case with the few prior constructions in which said scores or folds were broken.

A still further object of the present invention is the provision of an improved carton unit consisting of a carton proper and a lid or cover and wherein the lid or cover is locked in position after it has been properly positioned with respect to said carton proper.

Other objects and advantages of the present invention should be readily apparent by reference to the following specification considered in conjunction with the accompanying drawings forming a part thereof, and it is to be understood that any modifications may be made in the exact structural details there shown and described, within the scope of the appended claims, without departing from or exceeding the spirit of the invention.

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In the drawings:

Fig. 1 is a plan view of a partly folded blank for forming one of the cartons of the present invention.

Fig. 2 is a perspective view of a partially erected carton from the blank of Fig. 1.

Fig. 3 is a transverse sectional view of the blank of Fig. 1 as the blank is received from the carton forming machine and ready for shipment to the user.

Fig. 4 is an extended plan view of a half blank showing a modification therein over the disclosure in Fig. 1.

Fig. 5 is a perspective view of a partially erected carton resulting from the blank of Fig. 4.

Fig. 6 is a transverse sectional view through one end of the carton of Fig. 5 as seen from line 6—6 on said Fig. 5.

Fig. 7 is an extended plan view of a blank from which a cover or lid is formed to be utilized with the carton of Fig. 5.

Fig. 8 is a perspective view of the underside of the cover formed from the blank of Fig. 7.

Fig. 9 is an extended plan view of a blank showing a further modification therein over the blank of Fig. 1.

Fig. 10 is a perspective view of a partially erected carton made from the blank of Fig. 9.

Throughout the several views of the drawings similar reference characters are employed to denote the same or similar parts.

Each of the several cartons disclosed in the drawings are formed from a single blank each of which is modified to produce its modification of the carton and which cartons are basically the same. The common basis for the several cartons of the present invention consists in each having a bottom or base member from the four sides of which extend walls each formed of an inner and an outer member. In each carton two of the opposite walls, generally referred to as side walls, have for a portion of their height spaced apart inner and outer members with the remaining portions of said inner and outer wall members contacting one another with a top member at the upper end of the hollow portions of the walls.

Specifically and referring to Figs. 1 to 3, inclusive, the blank comprises a rectangular base portion 15 bounded by score or fold lines 16, 17, 18 and 19. The score or fold lines 16 and 18 are of greater length than the score lines 17 and 19, and in accordance with usual practice will be referred to as the sides of the carton although the remaining lines may be the said sides since the term sides is generally reserved for the longer of the bounding walls.

The score of fold lines 16 and 18 respectively hingedly connect to the base 15 similar extensions 20 and 21 and since these extensions are substantially identical only one of them will be described in detail. Accordingly, extension 20 is provided with a plurality of score or fold lines 22, 23, 24, 25 and 26 which divide the extension between the fold line 16 and end of the blank into panels 27, 28, 29, 30, 31 and 32. The panel 27 forms in the erected carton the outer wall member for the side walls and has its ends defined by score or fold lines 33 and 34 which hingedly connect therewith corner pieces 35 and 36. The panel 28 forms the upper portion of the side wall inner wall member and has its ends defined by cut lines 37 and 38. The panel 29 forms the side wall top wall member in the erected carton and lies parallel with the base 15. The ends of the panel 29 are defined by cut lines 39 and 40. The panel 30 forms the lower portion of the side wall inner wall member of the complete wall and has its ends defined by score or fold lines 41 and 42, and the said panel 30 is provided near its ends 41 and 42 with elongated apertures 43 and 44 cooperating, as will later be made clear, with end wall locking lugs for securing the walls in erected positions. The panel 31 is of substantially the same width and length as the panel 29 and has its ends defined by cut lines 45 and 46 and this panel constitutes the bottom of the hollow side walls. The panel 32 is a glue flap of a length and a width substantially equal to that of the outer wall member panel 27 and to which it is attached by suitable glue or adhesive such as 47 illustrated as carried by the inner surface of the outer wall member 27. The ends of the glue flap 32 are defined by score or fold lines 48 and 49.

The score or fold lines 33, 41 and 48, at one end of the wall members and glue flap, are in alignment with the base member score or fold line 17 and the score or fold lines 34, 42 and 49, at the other ends of the wall members and glue flap are in alignment with the base score or fold line 19. The glue flap 32 has through its ends score or fold lines 48 and 49 hingedly connected therewith end wall vertical braces 50 and 51 which lie in the erected carton, adjacent the end wall outer wall member. The lower portion of the side wall inner wall member panel 30 through its ends scores 41 and 42 has hingedly connected therewith end wall lateral and vertical braces 52 and 53. Said braces 52 and 53 have their other defined by score or fold lines 54 and 55 and act as hinged members for connecting thereto end wall vertical braces 56 and 57. The said end wall vertical braces 50 and 56, and 51 and 57 have hingedly connected between them end wall lateral braces 58 and 59 through score or fold lines which are in alignment with score or fold lines 25 and 26. Similar end wall lateral or transverse braces 60 and 61 are located between vertical braces 56 and 57 and end wall vertical braces 62 and 63, being separated by hinge or fold lines in alignment with an extension of score or fold line 22. The end wall vertical braces 62 and 63 are adjacent to corner pieces 35 and 36 being separated therefrom by score lines in alignment with score line 22.

The corner pieces 35 and 36 are each provided with a diagonal fold or score lines 64 and 65 and form, as will later be made clear, a bellows corner between the said side wall outer members and end wall outer members. As will be noted the portion of each corner pieces 35 and 36 between its respective diagonal fold lines 64 and 65 and the side wall outer member is provided with adhesive which engages a corresponding portion of the end wall vertical braces 50 and 51.

The base panel 15 has hingedly connected to its ends through the score or fold lines 17 and 19 similar extensions 66 and 67 which form shouldered or stepped end walls and since said extensions are substantially identical it is deemed sufficient if but one of them be described, in detail. Accordingly, extension 66 is provided with a plurality of score or fold lines 68, 69, 70 and 71, thereby providing between the score or fold line 19 and the end of the extension 66 panels 72, 73, 74, 75, and 76.

The panel 72 is of a length equal to the width of the base blank and has its ends defined by score or fold lines 77 and 78 which are in alignment with the base scores 16 and 18 and said score or fold lines 77 and 78 hingedly connecting to the said panel 72 the corner pieces 36. The panel 73 has its ends defined by cut lines 79 and 80 which are in alignment with the score or fold lines 77 and 78. The panel 73 is of a length substantially equal to the width of the base member 15 and forms in the erected carton the top portion of the end wall inner wall member and is disposed between the side walls inner wall member top portions 28. The panel 74 is shorter in length than the panel 73 and is substantially equal to the distance of said carton between its side walls inner wall members top portions 28 and the panel 73 forms the top wall member or step for the hollow end wall. The panel 75 in the erected carton forms the lower portion of the end wall inner wall member and is of a length substantially equal to the length of the panel 74 which is equal to the space between the said carton side walls inner wall members lower portions. The panel 75 has projecting from it, near its outer ends, lugs 81 and 82 which are adapted to enter the elongated apertures 43 and 44 for locking the carton walls in their erected positions. The panel 76 in the erected carton forms a spacer for spacing the lowermost end of the end wall inner wall member lower portion from the corresponding end of the end wall outer wall member. The upper portion of the end wall inner wall member panel 73 has projecting from it beyond the panel 74 lugs or tabs 83 and 84 which, in the erected carton are projected behind the top wall or shoulder of the side walls in holding the carton in erected position.

In the manufacture of the carton, a blank, as just described, is provided cut to a contour as illustrated in Fig. 1 and with adhesive thereon as illustrated at 47. The carton blank is then folded along the score or fold line 25 thereby bringing the glue flap 32 and bottom side wall panel 31 into face contact with top wall or shoulder panel 29 and inner wall member the upper and lower portions 30 and 28 of side wall. The blank is then further folded on the score or fold line 22 thereby bringing the glue flap 32 and adjacent brace portions 50 and 51 into engagement with the adhesive 47 of outer wall member 27 and corner pieces 35 and 36. In other words both side wall extensions 20 and 21 are now folded to the position in which the extension 21 is illustrated. A transverse cross section of this folded blank is as illustrated in Fig. 3 and it is in this position that the blank is shipped to the user.

It should be noted that the side wall bottom panels 31 are not secured to the carton bottom or base member 15 but are free thereof and that the glue flap 32 is the only securing factor of the side walls.

When the user desires to utilize the carton as for the reception of merchandise to be shipped or displayed therein, he need only raise the folded side wall flaps from their outwardly extending positions to a position normal to or vertical of the carton base. In the event that difficulty is encountered in breaking the scores so that the lower portion of the inner wall member, the outer wall member, the step or wall member and the bottom wall member take their proper position of being normal to one another, the said scores may be broken prior to the set up of the carton. This is illustrated in phantom lines at 85 and 86 in Fig. 3. In other words while the blank is still in the extended position the bottom wall member may be lifted and swung outwardly thereby raising the lower portion of inner wall member from its flattened position and outwardly swinging the shoulder or top wall member. With the said side wall members in the position of Fig. 3 they may be swung to be normal to the carton base or bottom.

With the side wall members in their erected position as illustrated in Fig. 2 the end wall braces may now be swung to be transverse of the bottom member or panel 15 as illustrated in Fig. 6. Due to the connection of a portion of each bellows corner to the end wall vertical brace member 50 or 51, the shifting of the said braces will cause an upward swinging of the end wall outer member or panel 72 so that when the said braces are in their transverse position the end wall extension is vertical or normal to the bottom or base member 15. The remaining panels of the end wall extension may now be folded to be normal to one another thereby enclosing the braces and the end wall members locked by engagement of the lugs 81 and 82 in the elongated apertures 43 and 44 and the intersection of the tabs or lugs 83 and 84 beyond the shoulders or steps 29 against the edges 39 and 40 thereof.

It will be noted particularly from Fig. 6 that the end wall braces are box-like in cross section for vertically and laterally spacing and bracing the end wall inner and outer members. At the same time the end wall inner member is prevented from displacement due to pressure from the interior of the carton. It will further be noted that there has been provided a carton in which the scores may be pre-broken resulting in greater ease of assembly and less pressure required to assemble the carton. It should also be noted that by the present construction the side walls need not be set up to their final position before the raising of the end wall, in fact ease in erecting the carton will be experienced if when the side walls are brought to a partial erected position the end wall is likewise acuated and both the side walls and outer end wall member brought to a final position simultaneously.

It should be noted that the upper portion, of the side wall inner wall member has glue or adhesive 87 thereon whereby it is secured to one face of the glue flap 32 and through which said side wall inner wall member panel 28 is secured to the side wall outer wall member panel 27.

The modification of the invention illustrated in Figs. 4 and 5 is quite similar to the carton illustrated in Figs. 1 to 3 except that the step or shoulder is placed on the outside of the carton instead of on the inside thereof. To accomplish this the side wall inner wall member panel

is formed to the full height of the carton while the outer wall member is made up of two panel portions, 88 and 89 separated from one another by panel portion 90 which is defined by the fold or score lines 91 and 92. In other words the side wall top wall member is shifted to provide the outer wall member with an upper and a lower portion. A further modification occurs in the formation of the side walls extensions in that the glue flaps 32 are shortened to correspond with the width of the lower portions of the outer wall member panels 88. The end wall braces may be left to have the same contour as that of Fig. 1 and is so illustrated in connection with side wall extension 26 of Fig. 1. The braces are illustrated in connection with side extension 21 of Fig. 4 shows the lateral brace panel 93 as at the height of the outer wall lower portion and will therefore extend intermediate the height of the end wall inner and outer wall members as clearly illustrated in the right hand half of Fig. 6. It should be noted, however, that these braces may be formed to be the same at all four corners of the blank or they may be used as illustrated, one having a transverse brace at the lower end thereof with a second transverse brace either at the top or intermediate the top and bottom. The end wall extensions of this modification in Fig. 4 are formed to provide end wall of uniform thickness throughout their height instead of having a step or shoulder intermediate this height.

Accordingly the end wall extensions 66' and 67' are each modified to the extent that the wall inner wall member is formed from a single panel instead of an upper portion panel and a lower portion panel. The extension 66' therefor has hingedly connected to its outer wall member panel 72 through the score or fold line 68 a panel 94 which in the erected carton forms the end wall top wall member, the other side of the panel 94 is defined by a fold or score line 95 which hingedly connects thereto the end wall inner wall member panel 96. The other end of the panel 96 is defined by the score or fold line 71 outward of which is the spacer flap or panel 76. The inner wall member panel 96 is of less width than the outer wall member panel 72 and the top wall member panel has a width adjacent the said outer wall members panel equal thereto while its other side, adjacent the inner wall member panel is of a width equal to the width of the said inner wall member. For this reason the ends of said top wall panel 94 are contoured or biased as at 97 and 98, with said ends, in the erected carton, overlying the side walls exterior shoulders or steps 29 in a plane thereabove.

The blank of Fig. 4 is shipped to the user in substantially the same condition as that of Fig. 1 and as illustrated in Fig. 3 and this blank is set up in substantially the same manner.

The resulting carton, however, see Fig. 5, has end walls of uniform thickness throughout their height while the side walls are thicker at their lower portions than at their upper portions with the step exteriorly of the carton sides. This construction results in the end wall top wall members having a portion thereof extending over the step of the side walls and this extension provides an ideal lock for locking to the carton a cover.

The cover for use with the carton of Fig. 5 is illustrated in Figs. 7 and 8 and the carton and cover are illustrated in locked position in Fig. 6. The cover is formed from a single blank hav-

ing a body portion 99 the opposite ends of which are similarly subdivided by score or fold lines 100, 101, 102 and 103 to provide on the body portion panels 104, 105, 106 and 107. The said panels are folded to be normal to one another with the panel 107 acting as a glue flap for attaching the rectangular tube, resulting from the folding of the panels, to the cover body portion 99. It will be noted that the panels 105 and 107 are shorter than the panels 104 and 106 thereby resulting in tongues 108 and 109 at the ends of the tubes. It will also be noted that the said tongues extend from the inner wall of said tube. The resulting cover is as illustrated in Fig. 8 being shipped to the user with the tubes flattened inwardly of the cover body portion 99.

In order for the user to apply the lid or cover to the carton the tubes are bent on their score or fold lines to be normal to the said body portion 99. This results in the tongues 108 and 109 having provided between them and the body portion a space 110 which is substantially equal to the thickness of the board from which the carton of Fig. 5 is formed. The lid is applied by inserting the projecting portions of the end walls top members, or contoured portions 97 and 98, beneath the fingers 108 and 109 at one side of the lid or cover and slightly upwardly bending or raising the other side of the cover as illustrated in phantom lines in Fig. 5. The upwardly raised portion of the cover or lid is then lowered to bring the body portion of the cover against the end walls top members 94. As the fingers at the free end of the cover or lid engage the projections of the end wall top members they are pressed inwardly until they are beneath said projections whereupon they spring to their normal position beneath said projections and thereby lock the cover in position. This is illustrated clearly in Fig. 6 where it discloses the fingers 108 and 109 of the cover as beneath the end walls top wall projections.

The remaining modification illustrated in Figs. 9 and 10 is directed to a carton in which the side walls are provided with a step or shoulder interiorly of the carton, with, however the end walls of double thickness instead of appreciable width. In this construction the end walls merely consist of an inner and an outer wall member with no top wall therebetween and the vertical and transverse braces of the construction heretofore described are eliminated. Accordingly, the end wall extension 66'' and 67'' of Fig. 9 consists essentially of panels 111 and 112 divided from one another by a score or fold line 113. The panel 111 constitutes the end wall outer wall member while the panel 112 constitutes the inner wall member and in order to lock the said wall members in operative positions the said inner wall member is provided with downwardly projecting lugs 114 and 115 to engage behind the side wall shoulder and is further provided with laterally projecting legs 116 and 117 to engage behind the lower portion of the inner wall member.

The blank of Fig. 9 is shipped to the user in the same manner as the blanks heretofore described and the set up is substantially the same.

It is sometimes desirable to have the inner surface of the set up carton or box part (lid) the same as the outer surface particularly when printed. To accomplish this the inner wall member 112, see extension 66' of Fig. 9, may have hingedly connected thereto as by a score or fold line 118 a panel 119 of an area substantially equal

to the carton base panel 15. To assist in retaining the extension 119 in position, it has projecting from its sides locking tongues 120 and 121 each adapted to enter a similar slot 122, see Fig. 10, formed by a cut 123 in the inner wall member lower portion 30.

From the foregoing it will be noted that each of the modifications of the present invention is basically the same, each having side walls of appreciable width for a portion of their height and with the said side wall free of the bottom or base of the carton. By this construction the objects initially set forth are attained with a resultant carton having greater ease in erection and considerably greater rigidity and strength in the erected carton.

What is claimed is:

1. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each having for a portion of its height a generally rectangular tubular cross section including an outer, top, inner and bottom wall member hingedly connected to one another through a glue flap hingedly projecting from the bottom wall member and attached to one of said inner and outer wall members, said wall member carrying the glue flap being integrally hingedly connected to the edge of the base member, said inner and outer wall members each having a portion thereof extending above the top wall member to form shoulders intermediate the height of the side walls, end walls formed from extensions from the remaining edges of the base member each including an inner and an outer wall member, corner pieces adapted to be folded on themselves and connecting the adjacent ends of the side walls outer members and the end walls outer members and embraced by the said end walls inner and outer wall members, and means for locking the walls in erected positions.

2. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each having for a portion of its height a generally rectangular tubular cross section including an outer, top, inner and bottom wall member hingedly connected to one another through a glue flap hingedly projecting from the bottom wall member and attached to one of said inner and outer wall members, said wall member carrying the glue flap being integrally hingedly connected to the edge of the base member, said inner and outer wall members each having a portion thereof extending above the top wall member to form shoulders intermediate the height of the side walls, end walls formed from extensions from the remaining edges of the base member each including an inner and an outer wall member, corner pieces adapted to be folded on themselves and connecting the adjacent ends of the side walls outer members and the end walls outer members and embraced by the said end wall inner and outer wall members, means for locking the walls in erected positions, and a flap substantially coextensive in area with the base member carried by one of said end wall inner wall members and superimposed on said base member.

3. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each having for a portion of its height a generally rectangular

tubular cross section including an outer, top, inner and bottom wall member hingedly connected to one another through a glue flap hingedly projecting from the bottom wall member and attached to one of said inner and outer wall members, said wall member carrying the glue flap being integrally hingedly connected to the edge of the base member, said inner and outer wall members each having a portion thereof extending above the top wall member to form shoulders intermediate the height of the side walls, end walls formed from extensions from the remaining edges of the base member each including an inner and an outer wall member, corner pieces adapted to be folded on themselves and connecting the adjacent ends of the side walls outer members and the end walls outer members and embraced by the said end walls inner and outer wall members, means for locking the walls in erected positions, a flap substantially coextensive in area with the base member carried by one of said end walls inner wall members and superimposed on said base member, and means for locking the flap in position comprising locking lugs extending laterally of the flap, and elongated apertures in the side walls inner wall members receiving said flap locking lugs.

4. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each having for a portion of its height a generally rectangular tubular cross section including an outer, top, inner and bottom wall member hingedly connected to one another through a glue flap hingedly projecting from the bottom wall member and attached to one of said inner and outer wall members, said wall member carrying the glue flap being integrally hingedly connected to the edge of the base member, said inner and outer wall members each having a portion thereof extending above the top wall member to form shoulders intermediate the height of the side walls, end walls formed from extensions from the remaining edges of the base member each including an outer, top and inner wall member, corner pieces between the adjacent ends of the side walls outer wall members and the end walls outer wall members adapted to be folded on themselves and disposed within the end wall's outer, top and inner wall member, and end wall braces of generally rectangular tubular cross section carried by the side walls corner pieces and disposed within the end wall's outer, top and inner wall members for vertically and horizontally bracing the said end walls.

5. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each having for a portion of its height a generally rectangular tubular cross section including an outer, top, inner and bottom wall member hingedly connected to one another through a glue flap hingedly projecting from the bottom wall member and attached to one of said inner and outer wall members, said wall member carrying the glue flap being integrally hingedly connected to the edge of the base member, said inner and outer wall member each having a portion thereof extending above the top wall member to form shoulders intermediate the height of the side walls, end walls formed from extensions from the remaining edges of the base member each including an outer, top and inner wall member, end walls braces of generally rectangular tubular cross section carried by the side walls and disposed within the end wall's outer, top and inner wall members for vertically and horizontally bracing the said end walls members, and means for locking the walls in erected positions.

6. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection, and said outer wall member being outwardly spaced from said inner wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and exteriorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, end walls each formed from an extension from the remaining edges of the base member and each including an outer, top and inner wall member, said end walls outer and inner wall members being of a height equal to the height of the side walls, and of a length, respectfully equal to the distance across the side walls outer members and the distance between the side walls inner wall members, and said end walls top wall members of a length equal to their outer end wall members and of appreciable width, whereby said top wall members outwardly of the side walls inner wall members and for the width thereof overlies the side walls shoulders in a plane thereabove to provide cover holding lugs on the carton, and cooperating means on said side and end walls for locking same in erected positions.

7. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection, and said outer wall member being outwardly spaced from said inner wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and exteriorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, end walls each formed from an extension from the remaining edges of the base member and each including an outer, top and inner wall member, said end walls outer and inner wall members being of a height equal to the height of the side walls and of a length, respectively, equal to the distance across the side walls outer members and the distance between the side walls inner wall members, and said end walls top wall members of a length equal to their outer end wall members and of appreciable width, whereby said top wall members outwardly of the side walls inner wall members and for the width thereof overlies the side walls shoulders in a plane thereabove to provide cover-holding lugs on the carton, cooperating means on said side and end walls for locking same in erected positions, and a cover for said carton held in position by the projecting cover-holding lugs.

8. In a carton of the class described formed

from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection, and said outer wall member being outwardly spaced from said inner wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and exteriorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, walls each formed from an extension from each of the remaining edges of the base member and each including an outer, top and inner wall member, said end walls outer and inner wall members being of a height equal to the height of the side walls and of a length, respectively, equal to the distance across the side walls outer members and the distance between the side walls inner wall members, and said end walls top wall members of a length equal to their outer end wall members and of appreciable width, whereby said top wall members outwardly of the side walls inner wall members and for the width thereof overlies the side walls shoulders in a plane thereabove to provide cover-holding lugs on the carton, cooperating means on said side and end walls for locking same in erected positions, a cover for said carton comprising a body portion of an area equal to that embraced between the side and end walls outer wall members, and an interengaging lug at each corner of the cover body portion for interengagement with the projecting cover-holding lugs of the carton.

9. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection and said outer wall member being outwardly spaced from said inner wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and exteriorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, end walls each formed from an extension from the remaining edges of the base member and each including an outer, top and inner wall member, said end walls outer and inner wall members being of a height equal to the height of the side walls and of a length, respectively, equal to the distance across the side walls outer wall members and the distance between the side walls inner wall members, and said end walls top wall members of a length equal to their outer end wall members and of appreciable width, whereby said top wall members outwardly of the side walls inner wall members and for the width thereof overlies the side walls shoulders in a plane thereabove to provide cover-holding lugs on the carton, cooperating means on said side and end walls for locking same in erected positions, a cover for said carton comprising a body portion of an area equal to that embraced between the side and end walls outer wall members, downward projections from two edges of the cover body portion adapted to engage the carton shoulders, and an interengaging lug at each end of the projections for interengagement with the cover-holding lugs of the carton.

10. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall member being inwardly spaced from said outer wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and interiorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, end walls each formed from an extension from the remaining edges of the base member and each including an outer and inner wall member, said outer and inner wall members being of a height equal to the height of said side walls and hingedly connected at their upper ends, said end walls inner and outer wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall members being spaced inwardly from their outer wall members for the remaining portion of their height, top wall members bridging the space between said end walls inner and outer wall members and forming a shoulder along and interiorly of the end walls in alignment with the shoulders of the side walls, and cooperating means on said side and end walls for locking same in erected positions.

11. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall member being inwardly spaced from said outer wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and interiorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, end walls each formed from an extension from the remaining edges of the base member and each including an outer and inner wall member, said outer and inner wall members being of a height equal to the height of said side walls and hingedly connected at their upper ends, said end walls inner and outer wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall members being spaced inwardly from their outer wall members for the remaining portion of their height, top wall members bridging the space between said end walls inner wall members spaced portions and forming a shoulder along and interiorly of the end walls in alignment with the shoulders of the side walls, and cooperating means on said side and end walls for locking same in erected positions, comprising locking lugs projecting from each end wall inner wall member contacting portion for engaging behind the side walls top wall members.

12. In a carton of the class described formed from a single blank comprising a base member.

side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall member being inwardly spaced from said outer wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and interiorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, end walls each formed from an extension from the remaining edges of the base member and each including an outer and inner wall member, said outer and inner wall members being of a height equal to the height of said side walls and hingedly connected at their upper ends, said end walls inner and outer wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall members being spaced inwardly from their outer wall members for the remaining portion of their height, top wall members bridging the space between said end walls inner wall members spaced portions and forming a shoulder along and interiorly of the end walls in alignment with the shoulders of the side walls, and cooperating means on said side and end walls for locking same in erected positions, comprising said spaced portions of each side wall inner wall member having an aperture therein adjacent each end, and a locking lug projecting from each side of each end wall inner wall member inwardly spaced portion for engagement in side walls inner wall members apertures.

13. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends, said wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall member being inwardly spaced from said outer wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and interiorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, end walls each formed from an extension from the remaining edges of the base member and each including an outer and inner wall member, said outer and inner wall members being of a height equal to the height of said side walls and hingedly connected at their upper ends, said end walls inner and outer wall members contacting one another for a portion of their height downwardly from their hinged connection and said inner wall members being spaced inwardly from their outer wall members for the remaining portion of their height, top wall members bridging the space between said end walls inner wall members spaced portions and forming a shoulder along and interiorly of the end walls in alignment with the shoulders of the side walls, and cooperating means on said side and end walls for locking same in erected positions, comprising said spaced portions of each side wall inner wall member having an aperture therein adjacent each end, and a locking lug projecting from each side of each end wall inner wall member inwardly spaced portion for engagement in side walls inner wall members apertures, and locking lugs projecting from each end wall inner wall member contacting portion for engaging behind the side walls top wall members.

14. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each including an outer wall member and an inner wall member hingedly connected at their upper ends said wall members contacting one another for a portion of their height downwardly from their hinge connection and said inner wall member being inwardly spaced from said outer wall member for the remaining portion of their height, a top wall member bridging the space between said inner and outer wall members and forming a shoulder along and interiorly of the side wall, a bottom wall member and a glue flap secured to the outer wall member, and walls each formed from an extension from the remaining edges of the base member and each including an outer, top and inner wall member, said end walls outer and inner wall members being of a height equal to the height of the side walls and of a length, respectively, equal to the distance across the side walls outer wall members and the distance between the side walls inner wall members, and said end walls top wall members of a length equal to their outer end wall members, and cooperating means on said side and end wall for locking same in erected positions.

15. In a carton of the class described formed from a single blank comprising a base member, side walls each formed from an extension from opposite edges of the base and each having for a portion of its height a generally rectangular tubular cross section including an outer, top, inner and bottom wall member hingedly connected to one another through a glue flap hingedly projecting from the bottom wall member and attached to one of said inner and outer wall members, said wall member carrying the glue flap being integrally hingedly connected to the edge of the base member, said inner and outer wall members each having a portion thereof extending above the top wall member to form shoulders intermediate the height of the side walls inner wall members, end walls formed from extensions from the remaining edges of the base member each including an inner and an outer wall member, corner pieces adapted to be folded on themselves and connecting the adjacent ends of the side walls outer members and the end walls outer members and embraced by the said end walls inner and outer wall members, and means for locking the walls in erected positions.

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