

Jan. 21, 1958

W. A. RINGLER

2,820,571

TWIN-COMPARTMENTED ARTICLE CARRIERS

Filed July 7, 1954

4 Sheets-Sheet 1

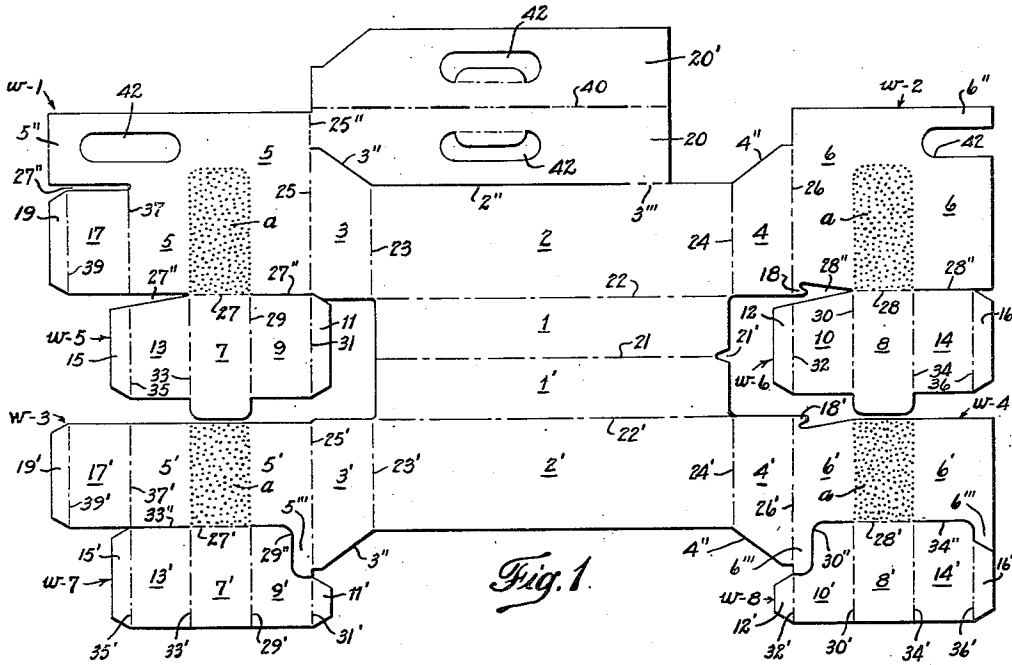


Fig. 1

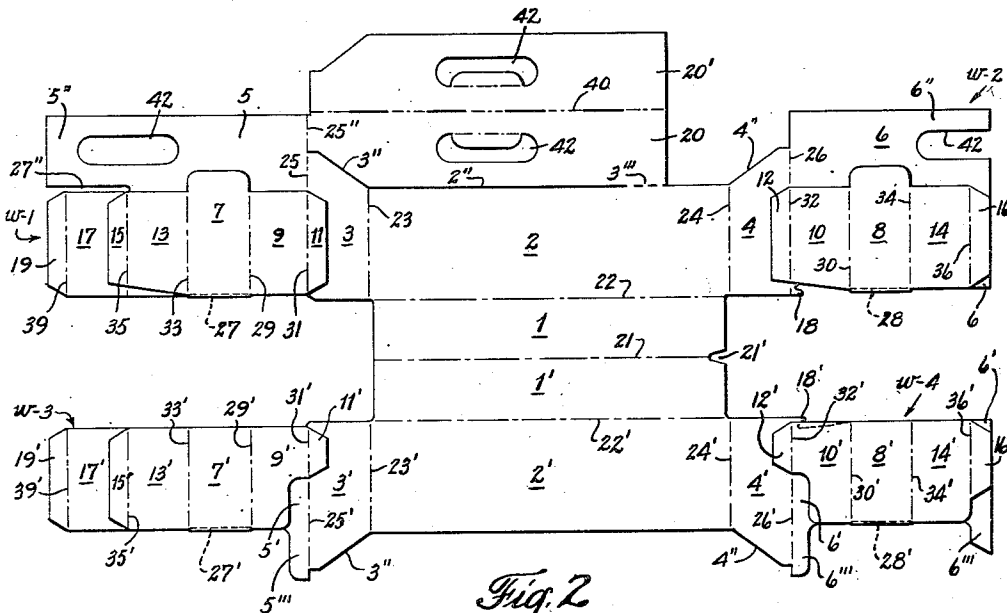


Fig. 2

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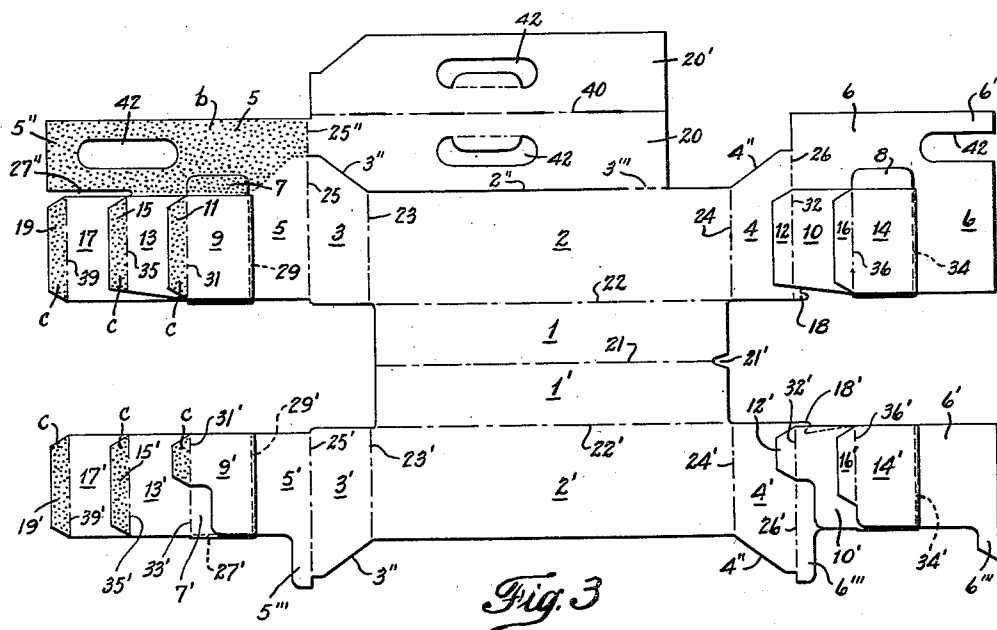
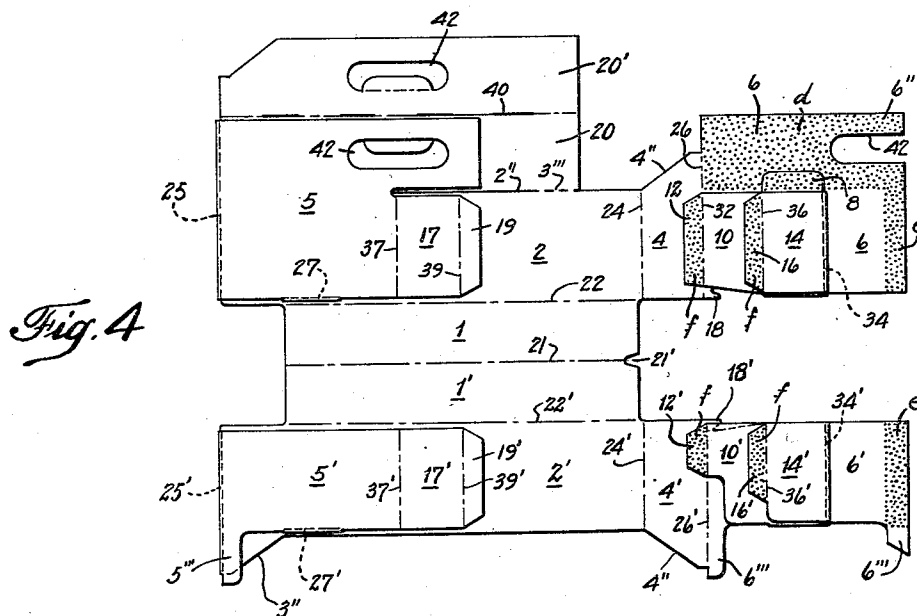
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4 Sheets-Sheet 2



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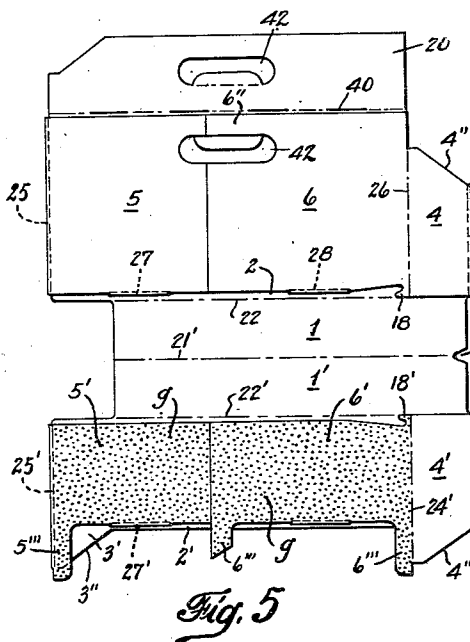
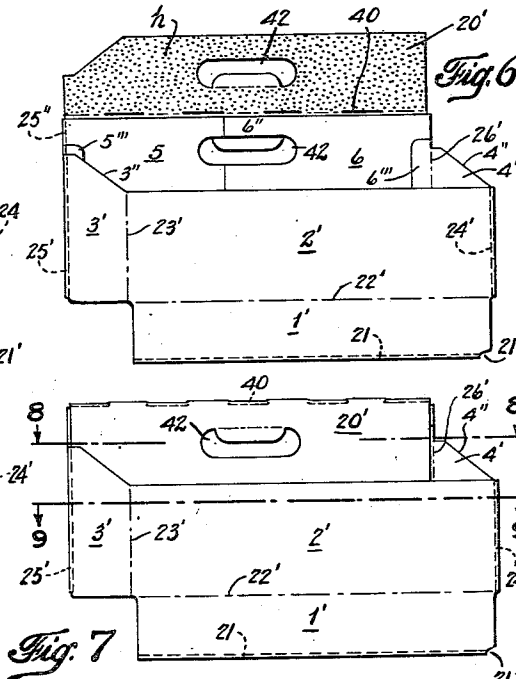
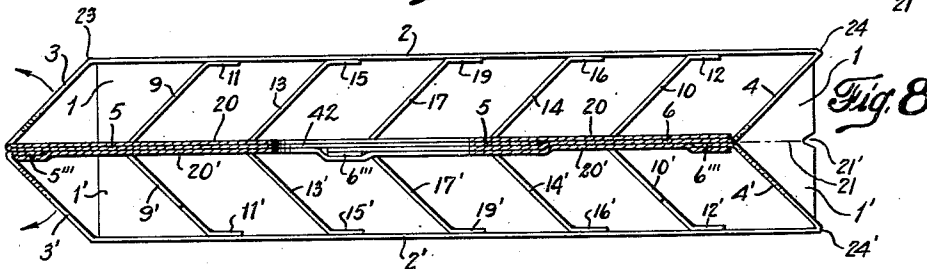
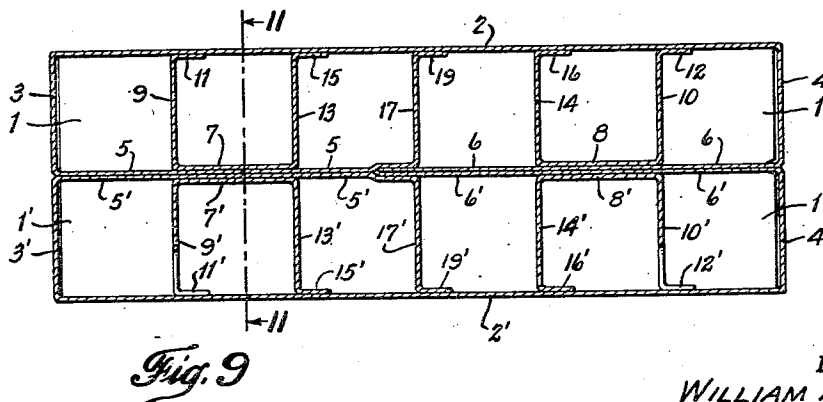
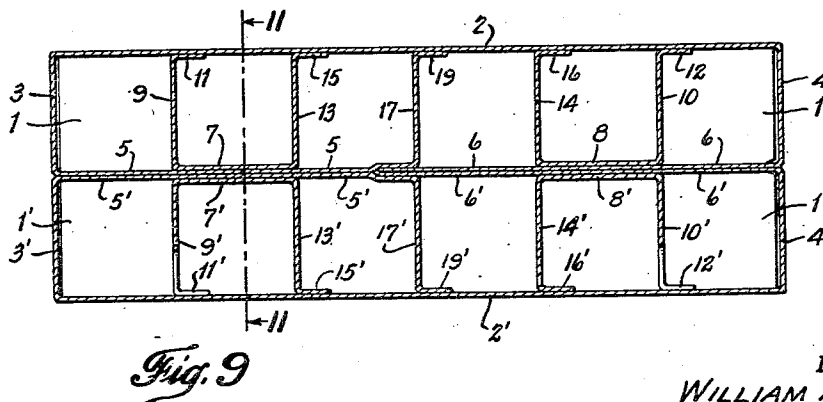
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TWIN-COMPARTMENTED ARTICLE CARRIERS

Filed July 7, 1954

4 Sheets-Sheet 3



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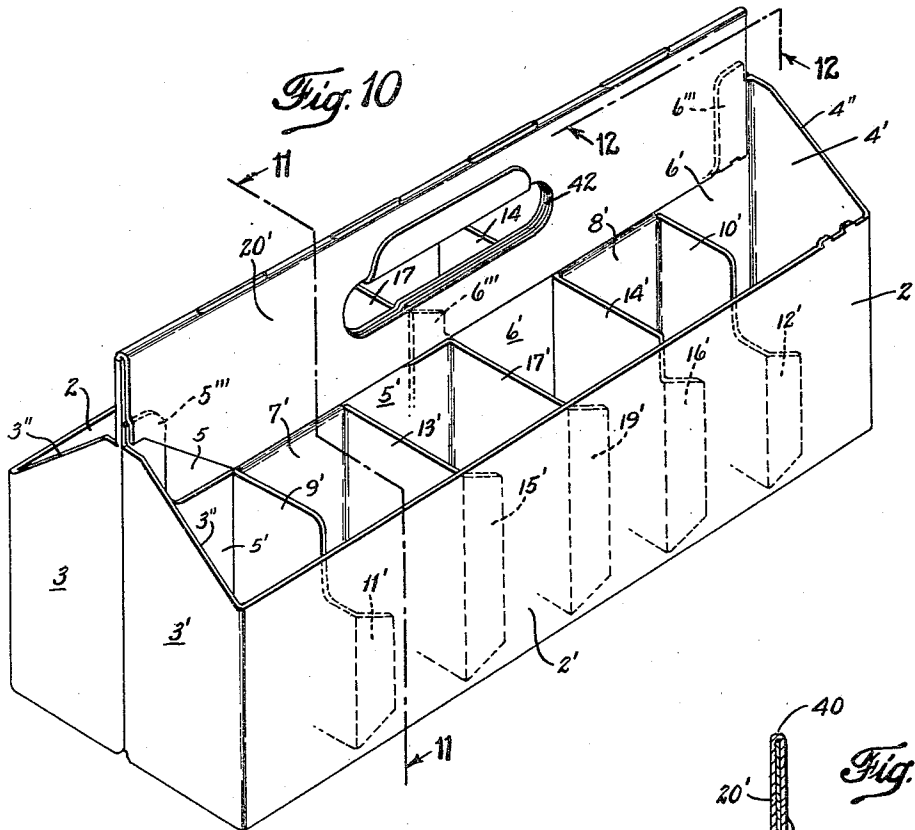
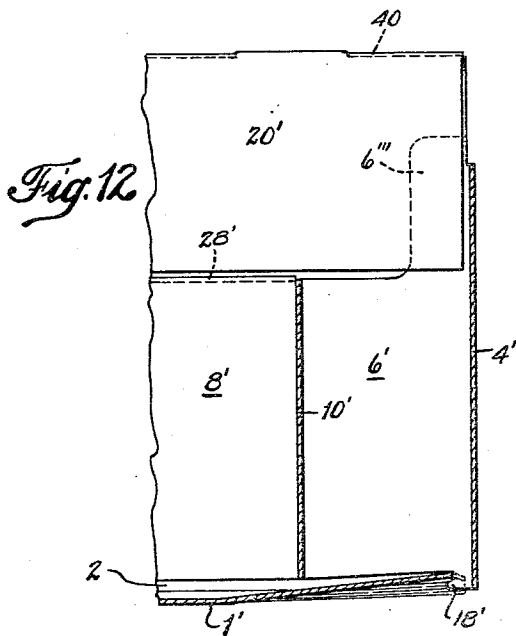
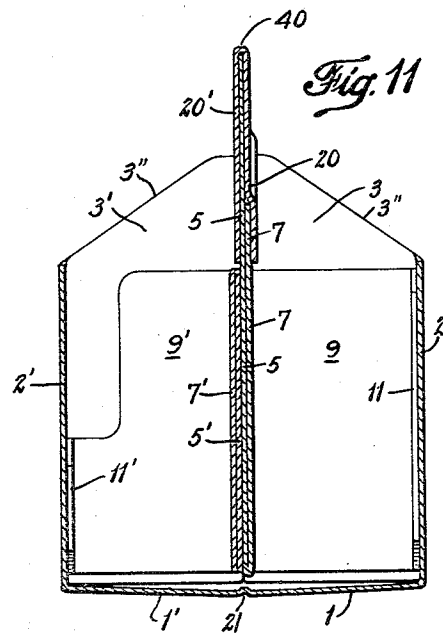
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TWIN-COMPARTMENTED ARTICLE CARRIERS

Filed July 7, 1954

4 Sheets-Sheet 4



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2,820,571

TWIN-COMPARTMENTED ARTICLE CARRIERS

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Application July 7, 1954, Serial No. 441,768

12 Claims. (Cl. 220—113)

This invention relates to twin-compartmented article carriers having a plurality of article receiving cells in each compartment and which are adapted to flatly collapse for economical shipment and storage and thereafter easily erected as required to receive the article contents. This application is a continuation-in-part of my co-pending application Serial No. 314,315 filed October 11, 1952.

Twin-compartmented carriers made in accordance with this invention possess an unusually strong backbone structure which includes a center partition extending substantially down to the erected bottom panel for the full length of the carrier. The backbone structure also incorporates a plural-ply handle part extending the full length of the carrier and which projects above the side panels for a convenient height. The outer faces of the side panels, end panels and handle part present smooth and finished surfaces of substantial area for the reception of advertising decoration. The carrier cells are defined by substantially full height cross partitions providing complete cushioned protection for adjacent articles contained in the cells. The cross partitions are hingedly connected to the center partition and side panels in a manner to permit flat collapse of the carrier and additionally provide stiffening reinforcement for the side panels and center partition.

These carriers are designed to be made from one-piece blanks which can be scored and cut with little resultant waste from selected paperboard or fiberboard stock sheets previously finished, printed and decorated on one side thereof only. These blanks are so cut and formed as to permit high speed gluing and folding thereof into collapsed bottle carriers in a single pass of the blanks through a substantially standard gluing and folding machine.

Other objects and advantages of this invention will become apparent as the disclosure proceeds.

Although the characteristic features of this invention will be particularly pointed out in the claims appended hereto, the invention itself, and the manner in which it may be carried out, may be better understood by referring to the following description taken in connection with the accompanying drawings forming a part hereof, in which:

Fig. 1 is a plan view of a prepared blank which has been cut and scored in accordance with this invention for assembly into a twin compartment article carrier having six article receiving cells in each compartment, and having four pairs of the cross partitions assembled from a pair of intermediate wings and a pair of exterior wings of the blank;

Fig. 2 is a plan view of the blank shown in Fig. 1 as it would appear after the initial folding operation has been executed thereon and wherein the intermediate wings and exterior wings have been folded to overlie the center partition sections of the top and bottom wings to which they are hinged;

Fig. 3 is a plan view of the blank shown in Fig. 2 as it would appear after the second folding operation has been

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executed thereon, and wherein certain of the cross partition sections have been outfolded so that all cross partition sections are inclined towards the left side of the blank, areas of adhesive being shown as applied to certain areas of the blank preparatory to the execution of the next folding operation;

Fig. 4 is a plan view of the blank shown in Fig. 3 after the top and bottom wings and their associated intermediate and outer wings at the left hand side of the blank had been folded in superimposed relation over the side panels; adhesive being shown applied to certain areas of the top and bottom wings and their associated intermediate and outer wings at the right side of the blank preparatory to execution of the following folding operation;

Fig. 5 is a plan view of the blank as shown in Fig. 4 as it would appear after the next folding operation has been executed thereon and wherein the top and bottom wings and their associated intermediate and outer wings at the right side of the blank have been folded to overlie the blank side panels, adhesive being shown as applied to one pair of center partition sections preparatory to execution of the next folding operation;

Fig. 6 is a plan view of the blank as shown in Fig. 5 after folding thereof along the bottom panel collapsing score to place both pairs of center partition sections in superimposed relation;

Fig. 7 is a plan view of the blank shown in Fig. 6 as it would appear after the final folding operation has been executed thereon to produce a twelve cell carrier in collapsed form;

Fig. 8 is a horizontal cross sectional view of the assembled carrier as viewed along lines 8—8 of Fig. 7 and as it would appear when undergoing erection expansion;

Fig. 9 is another horizontal cross sectional view of the assembled carrier as viewed along lines 9—9 of Fig. 7 and as it would appear when fully expanded;

Fig. 10 is a perspective view of the fully erected twelve cell carrier assembled from the blank shown in Fig. 1;

Fig. 11 is a transverse section taken vertically through the erected carrier as it would appear when viewed along line 11—11 of Fig. 10; and

Fig. 12 is a fragmentary section taken longitudinally of the erected carrier and as it would appear when viewed along line 12—12 of Fig. 10.

Similar reference characters refer to similar parts throughout the several views of the drawings and specification.

In the manufacture of carrier forming blanks as illustrated in Fig. 1, paperboard or fiberboard stock sheets are printed and decorated on one side thereof only and the stock sheets may then be given a single pass through a cutting and scoring machine adjusted to perform the requisite blank cutting and scoring operations. These carrier forming blanks are shaped and designed to yield little waste in cutting, and to permit high speed gluing and folding of the carrier blanks to produce completed carriers in collapsed form during a single pass through a gluing and folding machine of substantially standard construction.

The prepared blank as shown in Fig. 1 is designed to provide a twin compartment carrier having a sturdy center partition and backbone structure and substantially full height cross partition sections defining six cells in each compartment. The bottom panel comprises a pair of bottom half-sections 1—1' connected by a longitudinally extending collapsing score 21. A pair of side panels 2—2' are hingedly connected to the opposite side edges of the bottom sections 1—1' along longitudinal scores 22—22' which are also parallel to the bottom collapsing score 21.

Top and bottom end wings w-1 and w-3 are foldably connected by aligned transverse scores 23—23' to the left

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hand side edges of the side panels 2—2', and top and bottom end wings w-2 and w-4 are foldably connected to the opposite side edges of the side panels 2—2' along aligned transverse scores 24—24'. An intermediate wing w-5 is captured from material between the top and bottom wings w-1 and w-3 and is foldably connected by a longitudinal score 27 to the upper end wing w-1. A similar intermediate wing w-6 is captured from material between the top and bottom wings w-2 and w-4 and is likewise foldably connected along a longitudinal score 28 to the lower end of the upper wing w-2. Additionally, an outer wing w-7 is foldably connected to the lower edge of the bottom wing w-3 along a longitudinal score 27', and a similar outer wing w-8 is foldably connected along a longitudinal score 28' to the bottom end wing w-4.

In the blank as shown in Fig. 1, the intermediate wings w-5 and w-6 are similar in form and provide two pairs of cross partition sections, and the outer wings w-7 and w-8 may also be similar in form to provide two additional pairs of cross partition sections. The top and bottom wings w-1 and w-3 each have a cross partition section 17—17' hinged thereto to complete the ten cross partition sections required to provide a twelve cell carrier.

The top and bottom wings w-1 and w-3 at the left hand side of the blank shown in Fig. 1 are scored to form a pair of similar end panel sections 3—3' foldably connected along the aligned scores 23—23' to the adjacent side edges of the side panels 2—2', and a pair of center partition sections 5—5' foldably connected along the aligned scores 25—25' to the respective end panel sections 3—3'. A pair of cross partition sections 17—17' are foldably connected along the aligned transverse scores 37—37' to the adjacent side edges of the center partition sections 5—5', and a pair of cross partition securing flaps 19—19' are foldably connected by aligned transverse scores 39—39' to the adjacent side edges of the cross partition sections 17—17'. The length of the center partition sections 5 and 5' as defined between the transverse scores 25—37 and 25'—37' is approximately equal to the length of three adjacent carrier cells. The height of the center partition section 5 is approximately equal to the height of the erected carrier, and has a handle forming portion 5'' which overhangs but is separated from the cross partition section 17 and associated securing flap 19 therebelow by a cut 27''. The handle forming portion 5'' also has a hand hole 42 formed therein. The center partition section 5' has a height approximately equal to the height of the adjacent side panel 2', except for a relatively narrow riser extension 5''' adjacent to the transverse score 25'.

The main right hand wings w-2 and w-4 of the blank shown in Fig. 1 are scored to form a pair of similar end panel sections 4—4' foldably connected along aligned transverse scores 24—24' to the adjacent side edges of the side panels 2—2', and a pair of center partition sections 6—6' foldably connected by aligned transverse scores 26—26' to the respective end panel sections 4—4'. The center partition section 6 has a height substantially equal to the height of the erected carrier and has a length slightly greater than the length of three adjacent carrier cells. The upper portion of the center partition section 6 has a hand hold cut out 42 which is partly defined by an overhanging strap portion 6'' which becomes incorporated into the handle part. The center partition section 6' forming a part of the lower right hand wing w-2 has a length which is slightly more than the length of three adjacent carrier cells and has a height substantially equal to the height of the adjacent side panel 2', except for a pair of relatively narrow riser extensions 6''' at each end thereof which become incorporated into the handle part.

The intermediate wings w-5 and w-6 may be similar in form and present a pair of center partition liner sections 7—8 hinged to the lower edges of the center par-

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titions 5—6 along the longitudinal scores 27—28. The length of the center partition liner sections 7—8 are substantially equal to the length of a carrier cell. A pair of cross partition sections 9—10 are foldably connected along transverse scores 29—30 to a side edge of the center partition liner sections 7—8, and securing flaps 11—12 are foldably connected to the cross partition sections 9—10 along transverse scores 31—32. A second pair of cross partition sections 13—14 are foldably connected to the opposite side edges of the center partition liner sections 7—8 along transverse scores 33—34, and securing flaps 15—16 are foldably connected to the other side edges of the cross partition sections 13—14 along transverse scores 35—36. The lower ends of the cross partition sections 9 and 13 are separated from the lower end of the center partition section 5 by cuts 27'', and the lower ends of the cross partition sections 10 and 14 are similarly separated from the lower end of the center partition section 6 by cuts 28''.

The center partition liner sections 7—8 are designed to be folded over and adhesively secured to the adjacent center partition sections 5—6 to which they are hinged. The adjacent cross partition sections 10 and 14 are designed to define therebetween an intermediate cell in one compartment of the erected carrier when the securing flaps 12 and 16 associated therewith are secured to the inside face of the side panel 2. Similarly, the cross partition sections 9—13 are designed to define therebetween a second intermediate cell for the same compartment of the carrier when the associated securing flaps 11—15 are secured to the inside face of the side panel 2. Additionally, the cross partition sections 13, 17 and 14 also define therebetween two intermediate cells for the same compartment of the carrier.

The outer wings w-7 and w-8 associated with the bottom wings w-3 and w-4 may be generally similar in form and comprise a pair of center partition liner sections 7'—8' hinged to the top forming edge of the adjacent center partition sections 5'—6' along the longitudinal scores 27'—28' of the blank as shown in Fig. 1. The center partition liner sections 7'—8' have a length substantially equal to the length of a carrier cell and each has two cross partition sections integrally hinged thereto.

Cross partition sections 9'—10' are foldably connected along a side edge of the liner sections 7'—8' along transverse scores 29'—30', with securing flaps 11'—12' foldably connected to the other side edge of the cross partition sections 9'—10' along transverse scores 31'—32'. It will be noted that the securing flaps 11'—12' are of reduced length and extend inwardly above the adjacent riser extensions 5''' and 6''' as the blank is formed. The cross partition sections 9'—10' are separated from the adjacent center partition sections 5'—6' by cuts 29'' and 30'' which define the narrow riser extensions 5''' and 6''' in integral association with the center partition sections 5'—6'. A second pair of cross partition sections 13'—14' are integrally hinged to the other side edge of the center partition liner sections 7'—8' by transverse scores 33'—34', and a pair of securing flaps 15'—16' are integrally hinged by transverse scores 35'—36' to the other side edge of the cross partition sections 13'—14'. The cross partition sections 13'—14' and associated securing flaps 15' and 16' are also separated from the adjacent center partition sections 5'—6' by cuts 33''—34''.

The center partition liner sections 7'—8' are designed to be folded upwardly and adhesively secured to the adjacent center partition sections 5'—6' when the carrier is assembled, with the securing flaps 11'—12' and 15'—16' secured to the inside face of the adjacent side panel 2' to thereby provide four cross partition sections 14', 10', 9' and 13', which together with the cross partition section 17, define therebetween four intermediate cells for the other compartment of the carrier.

The handle part for the carrier formed from the blank shown in Fig. 1 is provided by the upper portion of the

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center partition section 5 and its associated overhanging extension 5'', and the upper part portion of the center partition section 6 and its strap portion 6''. The outer side edges of the center partition section 6 and its strap portion 6'' are designed to overlap the outer side edges of the center partition section 5 and its overhanging extension 5''. The riser extensions 5''' and 6''' are also glued to the upper portions of the adjacent center partition sections 5-6 to further reinforce the handle part.

To additionally reinforce the handle part and improve its appearance, a full length handle facing flap 20 is provided which is taken from the material extending above the top edge of the side panel 2 and adjacent end panel 3 and separated therefrom by the lined cuts 2'' and 3'' as shown in Fig. 1, except for a breakable connecting neck 3''' to facilitate folding assembly of the blank. The handle facing flap 20 is hinged at one end thereof to the adjacent side edge of the center partition section 5 along a score 25'' which constitutes a straight line continuation of the score 25. A companion handle facing flap 20' is foldably connected as by a longitudinal score 40 to the handle facing flap 20 so that both faces of the assembled handle part are smoothly faced by the handle facing flaps 20-20'. Hand hold cutouts 42 are also formed in the handle facing flaps 20-20' which fall into aligned registry with the handle hole cutouts 42 in the center partition sections 5-6 when the carrier is assembled.

To assemble the twelve cell carrier from the blank shown in Fig. 1, areas of adhesive *a* are applied to the inside face of the center partition sections 6-6' and 5-5' over an area to be covered by the center partition liner sections 7-7' and 8-8'. This operation can be performed during continuous travel of the blank through the gluing and folding machine. During further travel of the blank through the machine, the intermediate wings *w*-5 and *w*-6 are folded outwardly upwardly along the hinging scores 27-28 so as to place the center partition liner sections 7-8 in overlying relation to the adjacent glued areas of the center partition sections 5-6 as shown in Fig. 2. Simultaneously with this folding operation, the outer wings *w*-7 and *w*-3 are infolded along the hinging scores 27'-28' so as to place the center partition liner sections 7'-8' in overlying relation to the adjacent glued areas of the center partition sections 5'-6', thereby completing the first folding operation as shown in Fig. 2.

In the next folding operation which is effected during continued travel of the blanks through the machine, the cross partition sections 9-9' are folded outwardly along the transverse line scores 29-29' so as to overlie the adjacent center partition liner sections 7-7' as shown in Fig. 3. Substantially simultaneously, the cross partition sections 14-14' are folded inwardly along the transverse scores 34-34' to overlie the adjacent center partition liner sections 8-8', thereby completing the second folding operation as shown in Fig. 3. In the second gluing operation, adhesive *b* is applied to the upper portion of the center partition section 5 and adhesive strips *c* are applied to the aligned securing flaps 19-19', 15-15' and 11-11' as shown in Fig. 3. This gluing operation can also be performed during continuous travel of the blank through the machine.

In the third folding operation as shown in Fig. 4, the center partition panel 5-5', along with its associated intermediate wing *w*-5 and outer wing *w*-7, are folded along the transversely aligned scores 25-25'-25'' into overlying relation with respect to the adjacent end panel section 3, side panel 2, and handle facing flap 20, and the adjacent end panel section 3' and side panel 2'. As a result of this folding operation, the securing flaps 19, 15 and 11 associated with the cross partition sections 17, 13 and 9 respectively become adhesively secured to the inside face of the side panel 2, and the upper portion of the center partition section 5 also becomes adhesively secured to the inside face of the handle facing flap 20.

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Also by this folding operation, the securing flaps 19', 15' and 11' associated with the cross partition sections 17', 13' and 9' become adhesively secured to the inside face of the side panel 2' as shown in Fig. 4.

During the continued travel of the partly assembled blank as shown in Fig. 4 through the gluing and folding machine, areas *d* and *e* of adhesive are applied to the upper portion of the center partition section 6 and to the side edge thereof, and strips *f* of adhesive are applied to the securing flaps 12-12' and 16-16' as shown in Fig. 4.

In the third folding operation as shown in Fig. 5, the top and bottom wings *w*-2 and *w*-4 at the right hand side of the blank are folded along the transversely aligned scores 24-24' so as to place the end panel section and associated center partition section 6 in overlying relation to the side panel 2. As a result of this operation, the upper portion of the center partition section 6 becomes adhesively secured to the handle facing flap 20 and also to the overlapped portion of the previously infolded center partition section 5 and its handle forming portion 5'', but is not secured to the infolded cross partition section 17 or its associated securing flap 19. It will be noted that the hand hole cutouts 42 in the handle facing flap 20, and in the center partition sections 5 and 6, will fall into aligned registry, and the securing flaps 12 and 16 associated with the cross partition sections 10 and 14 of the intermediate wing *w*-6 will also become adhesively secured to the inside face of the adjacent side wall panel 2, thereby completing the formation of the six cells for one compartment of the carrier. In this same folding operation, the outer edge of the center partition section 6' associated with the lower right hand wing *w*-4 will become adhesively secured to the previously infolded center partition section 5', but will not become attached to the previously infolded cross partition section 17' or its associated securing flap 19'. The securing flaps 12' and 16' associated with the cross partition sections 10' and 14' of the outer wing *w*-8 will however become adhesively secured to the inside face of the adjacent side panel 2' to thereby complete the formation of the six cells for the other compartment of the carrier.

When the twelve cell carrier is thus partly assembled as shown in Fig. 5, an area of adhesive *g* is applied to the partially overlapped center partition sections 5' and 6' and their riser extensions 5''' and 6''' as shown in Fig. 5. Thereupon, the partially assembled carrier is folded along the bottom collapsible score 21 as shown in Fig. 6 to place the bottom half section 1' in overlying relation to the companion bottom section 1, and to place center partition sections 5'-6' in superimposed adhesively secured relation to the center partition section 5-6 as shown in Fig. 6.

In the final gluing and folding operation, an area of adhesive *h* is applied to the inside face of the secondary handle facing flap 20' as shown in Fig. 6, and the handle facing flap 20' is then folded along the longitudinal score 40 and pressed into adhesively secured relation to the outside face of the center partition sections 5 and 6. The downfolded handle facing flap 20' will also become adhesively secured to the riser extensions 5''' and 6''' associated with the adjacent center partition sections 5' and 6' to further reinforce the handle part. The completed twelve cell carrier is then assembled in collapsed form for shipment as shown in Fig. 7.

The collapsed carrier as shown in Fig. 7 may be easily erected for the reception of bottles or other objects of merchandise by exerting pressure on the ends of the carrier and interlocking the hook portions 18-18' formed in the lower end of the center partition sections 6-6' with a notch 21' provided in the end of the bottom panel as shown in Fig. 12. The carrier as thus constructed presents smooth surfaced side panels 2-2' and end panel sections 3-3' and 4-4' for the reception of advertising display. This carrier is featured by substantially full height cross partition sections, and a center partition

backbone structure which is not less than two-ply thickness throughout its length. The center partition structure is further reinforced and thickened by the center partition liner sections 7-7' and 8-8'. The handle part is also integrally incorporated into the center partition structure and is not less than three-ply thickness throughout its length. A strong and highly serviceable twelve bottle carrier is thus provided, which meets all shipping regulations, which can be economically manufactured from a limited area of paperboard with very little waste in cutting, and which can be glued, folded and assembled economically and at high speed on automatic gluing and folding machines of standard design.

While the blank shown in Fig. 1 is provided with sufficient cross partition forming flaps or sections to form a twelve-cell carrier, it will be appreciated that by a corresponding shortening of the bottom panels 1-1', side panels 2-2' and handle facing flaps 20-20', and the elimination of certain of the cross partition forming flaps and certain portions of the end center portion sections 6-6' of the blank shown in Fig. 1, carriers can be made in accordance with this invention to provide for ten, eight or six cells, as desired.

For example, a ten-cell carrier may be made by modifying the intermediate and outer wings w-6 and w-8 and the top and bottom wings w-2 and w-4 at the right hand side of the blank shown in Fig. 1, namely, by eliminating the cross partition sections 14-14' and associated securing flaps 16-16', and shortening the associated end center partition sections 6-6' so that the outer edges thereof will be substantially in alignment with the side edges 34-34' of the center partition liner sections 8-8'. The upper and lower wings w-1 and w-3, the intermediate wing w-5, and the outer wing w-7 at the left hand side of the blank shown in Fig. 1, would remain without substantial change, and the bottom half sections 1-1', side panels 2-2' and handle facing flaps 20-20' would be correspondingly shortened to provide for only five cells in each compartment of the carrier. It will be appreciated that the finger insertion opening 42 in the end center partition section 5 and the finger openings 42 in the handle facing flaps 20-20' would be appropriately centered. Such a blank, designed to provide a ten-bottle carrier, would be assembled substantially in accordance with the step procedures indicated in Figs. 2 to 7 inclusive, as is evident to those skilled in the art.

To make an eight-bottle carrier, the intermediate wing extension w-6 and the outer wing extension w-8 at the right hand side of the blank shown in Fig. 1 would be completely eliminated, and the end center partition sections 6-6' at the right hand side of the blank would be foreshortened to a length approximately equal to the longitudinal length of the adjacent end cells, so that the adjacent end cells would be separated by the foreshortened end center partition sections 6-6'. Such an eight-bottle carrier can be assembled substantially in accordance with the assembly procedures indicated in Figs. 2 to 7 inclusive, as would be evident to those skilled in the art.

To provide a six-bottle carrier, the cross partition sections 17-17' and associated securing flaps 19-19', along with the overhanging portion 5'' of the end center partition section 5, at the left hand side of the blank shown in Fig. 1, would be eliminated. At the right hand side of the blank shown in Fig. 1, the intermediate wing extension w-6 and outer extension w-8 would be completely eliminated to make a six-cell carrier, and the end center partition sections 6-6' would be greatly foreshortened to leave only sufficient material to provide flaps for adequate securement to the outer side edges of the end center partition sections 5-5' at the left hand side of the blank. Such a six-cell carrier, as is evident to those skilled in the art, may be assembled from such

a modified blank, substantially in accordance with assembly procedures indicated in Figs. 2 to 7 inclusive.

It will thus be appreciated that ten, eight and six bottle carriers, adapted for high speed gluing and folding assembly, may be made by a corresponding reduction in the length of the bottom half sections 1-1', side panels 2-2' and handle facing flaps 20-20', and the appropriate elimination of certain portions and parts of the blank shown in Fig. 1 as above indicated, with appropriate centering of the finger insertion holes in the handle forming portions of the blank.

While the blank shown in Fig. 1 is particularly designed for the low-cost assembly of twelve-cell carriers, it will be appreciated that ten, eight and six-cell carriers may be assembled by reducing the size of these blanks and eliminating certain portions thereof as heretofore indicated.

While certain novel features of this invention have been disclosed herein and are pointed out in the claims, it will be understood that various omissions, substitutions and changes may be made by those skilled in the art without departing from the spirit of this invention.

What is claimed is:

1. A multi-cell twin compartmented article carrier formed from a single blank of sheet material including a bottom panel, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, a pair of end panel sections at each end of the carrier integrally hinged to the adjacent end edges of the side panels, an end center partition section integrally hinged to each of the four end panel sections and extending inwardly between said side panels, said end center partition sections being secured together to provide a composite center partition extending the full length of the carrier, an intermediate center partition section integrally hinged to the lower end of one of said end center partition sections and extending upwardly in adjacent relation thereto, a second intermediate center partition section integrally hinged to the upper edge of another end center partition section and extending downwardly in adjacent relation thereto, a pair of cross partition sections integrally hinged to the opposite vertical edges of each of said intermediate center partition sections, each of said cross partition sections having an attachment flap integrally hinged thereto and secured to the inside face of the adjacent side panel, and a pair of downfolded handle facing flaps having aligned finger insertion holes therein and extending substantially the full length of the carrier and integrally connected along the top edges thereof, one of said handle facing flaps being integrally hinged to an upwardly projecting vertical end edge of one of said end center partition sections.

2. A multi-cell twin compartmented article carrier formed from a single blank of sheet material including a bottom panel, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, a pair of end panel sections at each end of the carrier integrally hinged to the adjacent end edges of the side panels, an end center partition section integrally hinged to each of the four end panel sections and extending inwardly between said side panels, said end center partition sections being secured together to provide a composite center partition extending the full length of the carrier, a first pair of intermediate center partition sections each integrally hinged to the lower end of two of said end center partition sections and extending upwardly in adjacent relation thereto, a second pair of intermediate center partition sections integrally hinged to the upper edge of the remaining two end center partition sections and extending downwardly in adjacent relation thereto, a cross partition section integrally hinged to a vertical edge of each of said intermediate center partition sections, each of said cross partition sections having an attachment flap integrally hinged thereto and secured to the inside face

of the adjacent side panel, and a pair of downfolded handle facing flaps having aligned finger insertion holes therein extending substantially the full length of the carrier and integrally connected along the top edges thereof and secured to adjacent upper portions of said end center partition sections.

3. A multi-cell twin compartmented article carrier formed from a single blank of sheet material including a bottom panel, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, a pair of end panel sections at each end of the carrier integrally hinged to the adjacent end edges of the side panels, an end center partition section integrally hinged to each of the four end panel sections and extending inwardly between said side panels, said end center partition sections being secured together to provide a composite center partition extending the full length of the carrier, a first pair of intermediate center partition sections each integrally hinged to the lower end of two of said end center partition sections and extending upwardly in adjacent relation thereto, a second pair of intermediate center partition sections integrally hinged to the upper edge of the remaining two end center partition sections and extending downwardly in adjacent relation thereto, a pair of cross partition sections integrally hinged to the opposite vertical edges of each of said intermediate center partition sections, each of said cross partition sections having means for foldably connecting the same to the inside face of the adjacent side panel, and a pair of downfolded handle facing flaps having aligned finger insertion holes therein extending substantially the full length of the carrier and integrally connected along the top edges thereof, one of said handle facing flaps being integrally hinged to an upwardly projecting vertical end edge of one of said end center partition sections.

4. A multi-cell twin compartmented article carrier formed from a single blank of sheet material including a bottom panel, a pair of side panels foldably connected to the opposite side edges of the bottom panel, a pair of end panel sections at each end of the carrier integrally hinged to the adjacent end edges of the side panels, a center partition structure extending longitudinally of the carrier for the full length thereof and foldably connected to both pairs of said end panel sections, said center partition structure including an end center partition section integrally hinged to each of the four end panel sections and extending inwardly between said side panels with the inner ends thereof in overlapping relationship, two of said end center partition sections which extend from opposite ends of the carrier having overlapping portions projecting above the side panels and together forming a handle skeleton having a finger insertion hole therein, a pair of handle facing flaps extending substantially the full length of the carrier and secured to the outside faces of said handle skeleton, said handle facing flaps having finger insertion holes therein in alignment with finger insertion hole in said handle skeleton, and a cross partition assembly for both compartments of the carrier, said cross partition assembly including a first intermediate center partition section integrally hinged to the lower end of one of said end center partition sections and extending upwardly in adjacent relation thereto, a second intermediate center partition section integrally hinged to the upper edge of another end center partition section and extending downwardly in adjacent relation thereto, and a cross partition section integrally hinged to a vertical edge of each of said intermediate center partition sections, each of said cross partition sections having an attachment flap integrally hinged thereto and secured to the inside face of the adjacent side panel.

5. A multi-cell twin compartmented article carrier formed from a single blank of sheet material including a bottom panel, a pair of side panels foldably connected to the opposite side edges of the bottom panel, a pair of end panel sections at each end of the carrier, integrally

hinged to the adjacent end edges of the side panels, a center partition structure extending longitudinally of the carrier for the full length thereof and foldably connected to both pairs of said end panel sections, said center partition structure including an end center partition section integrally hinged to each of the four end panel sections and extending inwardly between said side panels with the inner ends thereof in overlapping relationship, two of said end center partition sections which extend from opposite ends of the carrier having overlapping portions projecting above the side panels and together forming a handle skeleton having a finger insertion hole therein, a pair of handle facing flaps extending substantially the full length of the carrier and secured to the outside faces of said handle skeleton, said handle facing flaps having finger insertion holes therein in alignment with finger insertion hole in said handle skeleton, and a cross partition assembly for both compartments of the carrier, said cross partition assembly including a first intermediate center partition section integrally hinged to the lower end of one of said end center partition sections and extending upwardly in adjacent relation thereto, a second intermediate center partition section integrally hinged to the upper edge of another end center partition section and extending downwardly in adjacent relation thereto, a cross partition section integrally hinged to each of two end center partition sections, and a cross partition section integrally hinged to a vertical edge of each of said intermediate center partition sections, each of said cross partition sections having an attachment flap integrally hinged thereto and secured to the inside face of the adjacent side panel.

6. A twelve-cell twin compartmented article carrier formed from a single blank of sheet material including a bottom panel, a pair of side panels foldably connected to the opposite side edges of the bottom panel, a pair of end panel sections at each end of the carrier integrally hinged to the adjacent end edges of the side panels, a center partition structure extending longitudinally of the carrier for the full length thereof and foldably connected to both pairs of said end panel sections, said center partition structure including an end center partition section integrally hinged to each of the four end panel sections and extending inwardly between said side panels with the inner ends thereof in overlapping relationship, two of said end center partition sections which extend from opposite ends of the carrier having overlapping portions projecting above the side panels and together forming a handle skeleton having a finger insertion hole therein, a pair of handle facing flaps extending substantially the full length of the carrier and secured to the outside faces of said handle skeleton, said handle facing flaps having finger insertion holes therein in alignment with finger insertion hole in said handle skeleton, and a cross partition assembly for both compartments of the carrier, said cross partition assembly including a first pair of intermediate center partition sections each integrally hinged to the lower end of two of said end center partition sections and extending upwardly in adjacent relation thereto, a second pair of intermediate center partition sections integrally hinged to the upper edge of the remaining two end center partition sections and extending downwardly in adjacent relation thereto, a pair of cross partition sections integrally hinged to the opposite vertical edges of each of said intermediate center partition sections, and a cross partition section integrally hinged to each of two end center partition sections, each of said cross partition sections having an attachment flap integrally hinged thereto and secured to the inside face of the adjacent side panel.

7. A multi-cell twin compartmented article carrier formed from a single blank of sheet material including a bottom panel, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, a pair of end panel sections at each end of the carrier integrally

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hinged to the adjacent end edges of the side panels, an end center partition section integrally hinged to each of the four end panel sections and extending inwardly between said side panels, said end center partition sections being secured together to provide a composite center partition extending the full length of the carrier, an intermediate center partition section integrally hinged to the lower end of one of said end center partition sections and extending upwardly in adjacent relation thereto, a second intermediate center partition section integrally hinged to the upper edge of another end center partition section and extending downwardly in adjacent relation thereto, a cross partition section integrally hinged to a vertical edge of each of said intermediate center partition sections, each of said cross partition sections having an attachment flap integrally hinged thereto and secured to the inside face of the adjacent side panel, and a pair of downfolded handle facing flaps having aligned finger insertion holes therein and extending substantially the full length of the carrier and integrally connected along the top edges thereof and secured to adjacent upper portions of said center partition sections.

8. A one-piece blank designed to form a multicell twin compartmented article carrier including, a bottom panel presenting a pair of foldably connected bottom sections, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, an end panel section integrally hinged to each end edge of both side panels, a first pair of end center partition sections integrally hinged to one pair of said end panel sections at opposite ends of the blank, a second pair of end center partition sections integrally hinged to one pair of said end panel sections at opposite ends of the blank, a second pair of end center partition sections integrally hinged to the other pair of end panel sections at the opposite ends of the blank, one of said first pair of end center partition sections having a handle forming portion with a finger insertion cutout therein, a pair of handle facing flaps each having a finger insertion cutout therein integrally connected together by a longitudinally extending score and having a length substantially equal to the length of the side panels, one of said handle facing flaps being integrally hinged at one end thereof to the vertical edge of an adjacent handle portion but otherwise substantially separated from the adjacent end panel section and side panel, a first intermediate center partition section captured from material between adjacent end center partition sections and integrally hinged to the lower end of one of the adjacent first pair of center partition sections and designed to be folded in superimposed relation thereto, a second intermediate center partition section integrally hinged to the top edge of one of said second pair of end center partition sections and designed to be folded in superimposed relation thereto, and a cross partition section integrally hinged to said first intermediate center partition section and to said second intermediate center partition section.

9. A one-piece blank designed to form a multi-cell twin compartmented article carrier including a bottom panel presenting a pair of foldably connected bottom sections, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, an end panel section integrally hinged to each end edge of both side panels, a first pair of end center partition sections integrally hinged to one pair of said end panel sections at opposite ends of the blank, a second pair of end center partition sections integrally hinged to the other pair of end panel sections at the opposite ends of the blank, one of said first pair of end center partition sections having a handle forming portion with a finger insertion cutout therein, a pair of handle facing flaps each having a finger insertion cutout therein integrally connected together by a longitudinally extending score and having a length substantially equal to the length of the side panels, one of said handle facing flaps being integrally hinged at one end thereof to the vertical edges of an adjacent handle portion but other-

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wise substantially separated from the adjacent end panel section and side panel, a first intermediate center partition section captured from material between adjacent end center partition sections and integrally hinged to the lower end of one of the adjacent first pair of center partition sections and designed to be folded in superimposed relation thereto, a second intermediate center partition section integrally hinged to the top edge of one of said second pair of end center partition sections and designed to be folded in superimposed relation thereto, a pair of cross partition sections integrally hinged to the opposite edges of said first intermediate center partition section and a pair of cross partition sections integrally hinged to the opposite end edges of said second intermediate center partition section.

10. A one-piece blank designed to form a multicell twin compartmented article carrier including, a bottom panel presenting a pair of foldably connected bottom sections, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, an end panel section integrally hinged to each end edge of both side panels, a first pair of end center partition sections integrally hinged to one pair of said end panel sections at opposite ends of the blank, a second pair of end center partition sections integrally hinged to the other pair of end panel sections at the opposite ends of the blank, each of said first pair of end center partition sections having a handle forming portion with a finger insertion cutout therein, a pair of handle facing flaps each having a finger insertion cutout therein integrally connected together by a longitudinally extending score and having a length substantially equal to the length of the side panels, one of said handle facing flaps being integrally hinged at one end thereof to the vertical edge of an adjacent handle portion but otherwise substantially separated from the adjacent end panel section and side panel, a pair of first intermediate center partition sections each captured from material between adjacent end center partition sections and respectively hinged to the lower end of one of the adjacent first pair of center partition sections and designed to be folded in superimposed relation thereto, a pair of second intermediate center partition sections each respectively hinged to the top edge of one of the adjacent second pair of end center partition sections and designed to be folded in superimposed relation thereto, a cross partition section integrally hinged to each of said first pair of intermediate center partition sections, and a cross partition section integrally hinged to each of said second pair of intermediate center partition sections.

11. A one-piece blank designed to form a multicell twin compartmented article carrier including, a bottom panel presenting a pair of foldably connected bottom sections, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, an end panel section integrally hinged to each end edge of both side panels, a first pair of end center partition sections integrally hinged to one pair of said end panel sections at opposite ends of the blank, a second pair of end center partition sections integrally hinged to the other pair of end panel sections at the opposite ends of the blank, each of said first pair of end center partition sections having a handle forming portion with a finger insertion cutout therein, a pair of first intermediate center partition sections each captured from material between adjacent end center partition sections and respectively hinged to the lower end of one of the adjacent first pair of center partition sections and designed to be folded in superimposed relation thereto, a pair of second intermediate center partition sections each respectively hinged to the top edge of one of the adjacent second pair of end center partition sections and designed to be folded in superimposed relation thereto, a pair of cross partition sections integrally hinged to the opposite edges of each of said first pair of intermediate center partition sections, and

a pair of cross partition sections integrally hinged to the opposite edges of each of said second pair of intermediate center partition sections.

12. A one-piece blank designed to form a multi-cell twin compartmented article carrier including, a bottom panel presenting a pair of foldably connected bottom sections, a pair of side panels integrally hinged to the opposite side edges of the bottom panel, an end panel section integrally hinged to each end edge of both side panels, a first pair of end center partition sections integrally hinged to one pair of said end panel sections at opposite ends of the blank, a second pair of end center partition sections integrally hinged to the other pair of end panel sections at the opposite ends of the blank, each of said first pair of end center partition sections having a handle forming portion with a finger insertion cutout therein, a pair of first intermediate center partition sections each captured from material between adjacent end center partition sections and respectively hinged to the lower end of one of the adjacent first pair of center partition sections and designed to be folded in superimposed relation thereto, a pair of second intermediate center partition sections each respectively hinged to the top

edge of one of the adjacent second pair of end center partition sections and designed to be folded in superimposed relation thereto, a pair of cross partition sections integrally hinged to the opposite edges of each of said first pair of intermediate center partition sections, and a pair of cross partition sections integrally hinged to the opposite edges of each of said second pair of intermediate center partition sections, one of said first pair of end center partition sections and one of said second pair of end center partition sections each having a cross partition integrally hinged to a vertical edge thereof.

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