

June 15, 1965

C. R. WHALEN

3,189,244

CARTONS

Filed April 4, 1963

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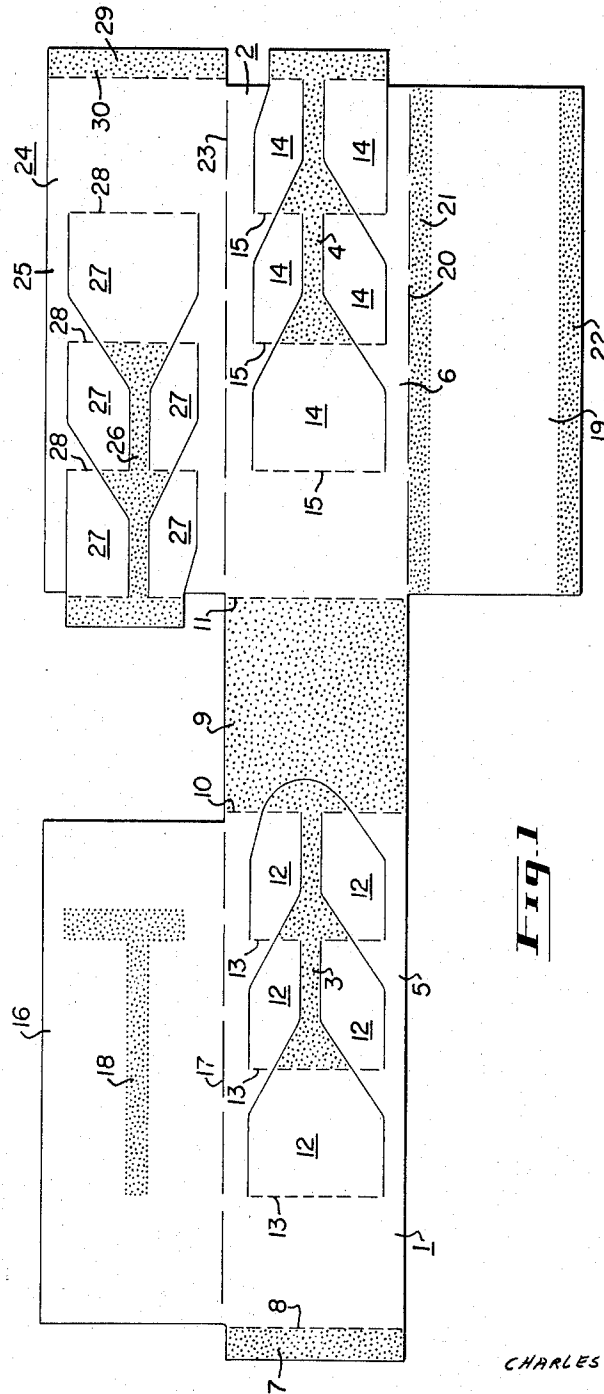


**Fig. 1**

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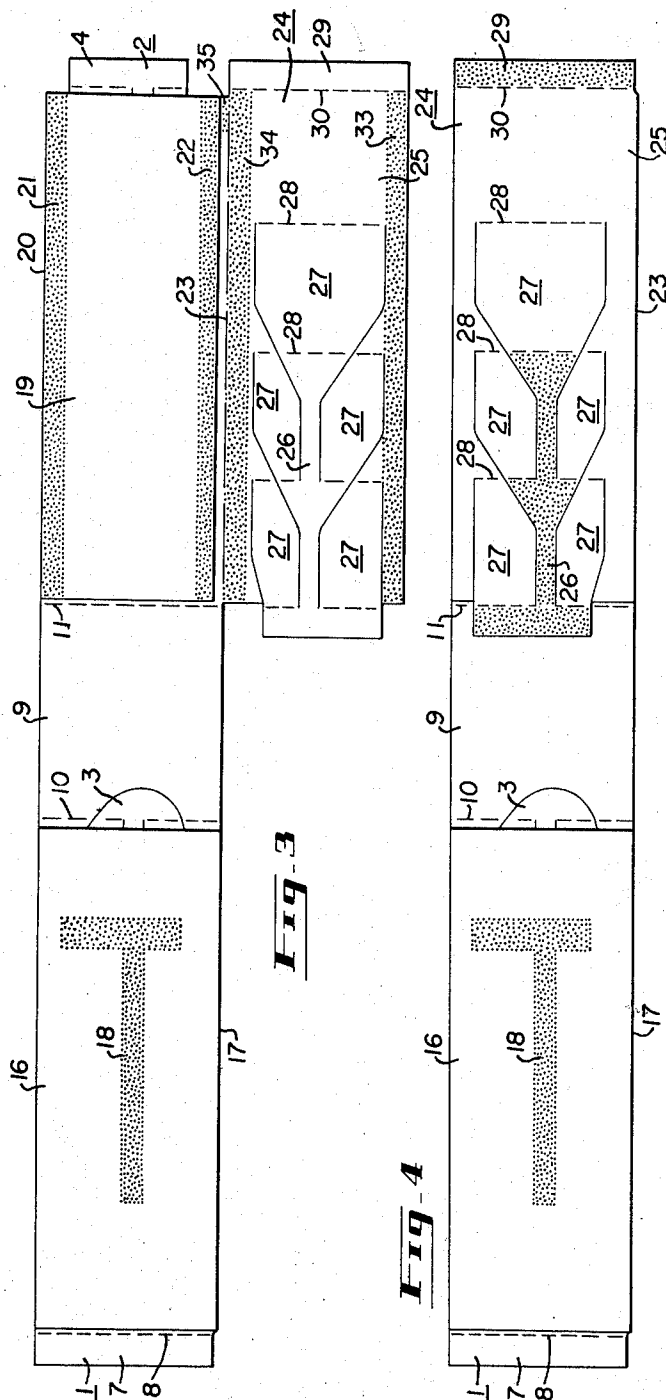
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CARTONS

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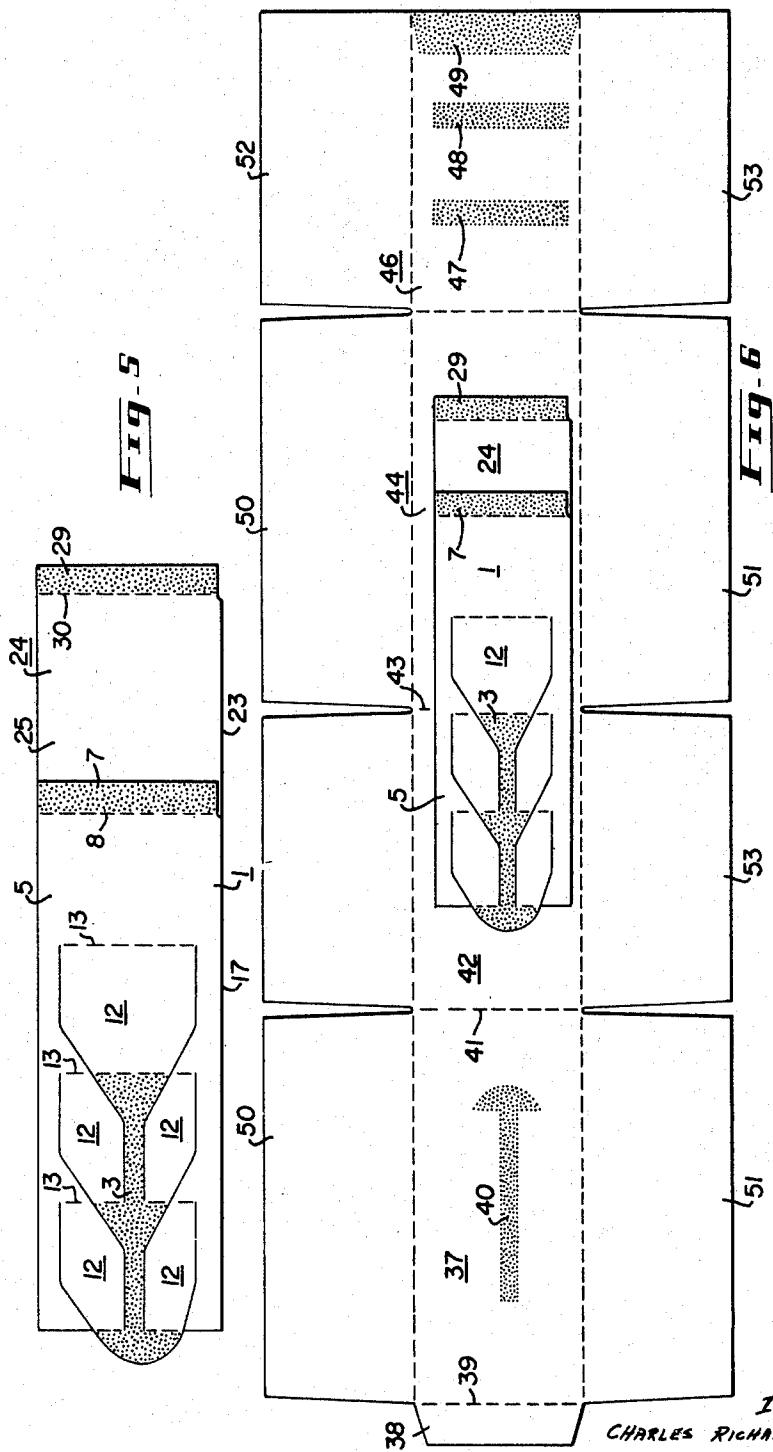
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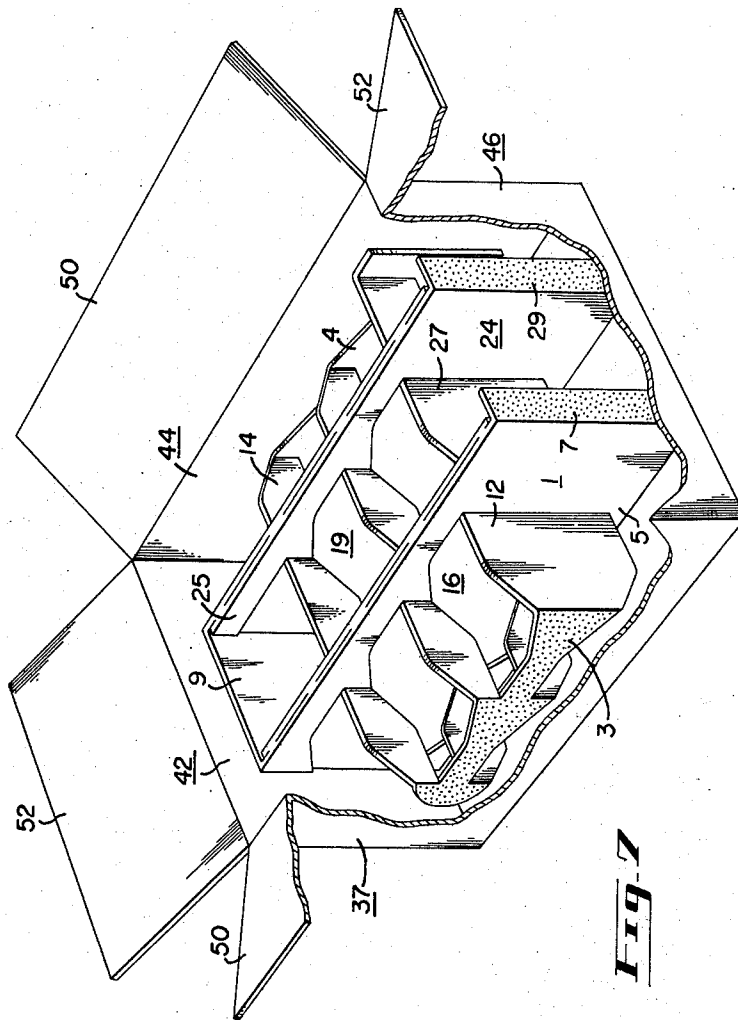
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CARTONS

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6 Sheets-Sheet 5



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CARTONS

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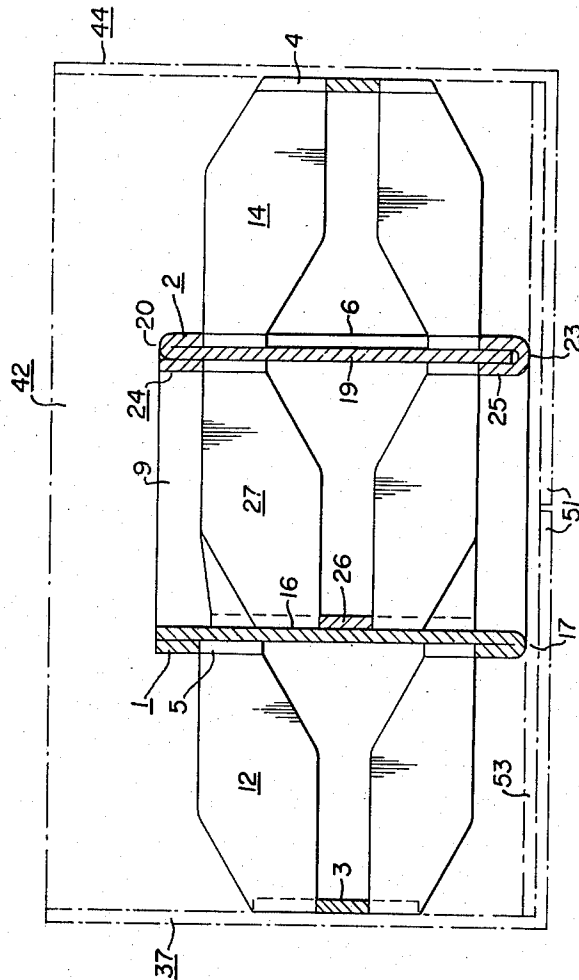


**Fig. 8**

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CARTONS

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2 Claims. (Cl. 229—15)

This invention relates to cartons and more particularly to the type of carton having an interior assembly of mutually transverse partitions forming a plurality of article receiving compartments, said assembly being formed from a one-piece blank.

Such types of cartons are, of course, well known and it is usual for the members forming the transverse partitions of the assembly, when the carton is in its knock-down condition, to be in the same plane as the members forming the longitudinal partitions. When such cartons are erected, however, the members forming the transverse partitions swing out from the plane of the members forming the longitudinal partitions so as to be normal thereto, and thus, the latter have open areas therein commensurate with the areas of the members forming the transverse partitions, and these open areas in the longitudinal partition members permit articles in one row of compartments to contact articles in an adjacent row if the carton is mishandled. Therefore, should the articles be fragile, such as, for example, glass bottles, then breakages might occur.

Accordingly, it is one object of this invention to provide such a carton with means to occlude such open areas.

According to one aspect, the present invention relates to a carton having a wall structure including a pair of mutually opposed side walls, a pair of mutually opposed end walls, and a bottom; said carton including an interior assembly of mutually transverse partitions fixed to said wall structure, said assembly including:

(a) A pair of outer longitudinal partitions each secured at least to an adjacent said side wall;

(b) A pair of intermediate longitudinal partitions each secured, at one end thereof, to an adjacent said end wall and each, with an adjacent said outer longitudinal partition, defining an outer article receiving row, said pair of intermediate longitudinal partitions, together, defining an intermediate article receiving row;

(c) A plurality of outer transverse partitions arranged to divide each of said outer article receiving rows into a plurality of article receiving compartments, each of said outer transverse partitions being integrally and hingedly connected to an associated said outer longitudinal partition and an adjacent said intermediate longitudinal partition; each of said outer transverse partitions and their associated outer longitudinal partition normally being in the plane of a said adjacent intermediate longitudinal partition when said carton is in a knock-down condition and being adapted, when said carton is erected, to hinge out of said plane whereby said associated outer longitudinal partition extends parallel with, and spaced from, said adjacent longitudinal partition, and said outer transverse partitions extend normal to, and between, their said associated outer and intermediate longitudinal partitions;

(d) A first occlusion panel, integrally connected to, and forming part of, a selected one of said intermediate longitudinal partitions and serving, on erection of said carton and the said hinging of the outer transverse partitions and outer longitudinal partition associated with said selected intermediate longitudinal partition, to occlude areas formed in the latter and due to the said hinging, commensurate with the area of its associated outer transverse partitions and outer longitudinal partition;

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(e) A plurality of intermediate transverse partitions arranged to divide said intermediate article receiving row into a plurality of article receiving compartments, each of said intermediate transverse partitions being integrally and hingedly connected, at one end thereof, to the remaining intermediate longitudinal partition and, at the other end thereof, being integrally and hingedly connected to means for securing said intermediate transverse partitions to said first occlusion panel; each of said intermediate transverse partitions and their said securing means normally forming part of the said remaining intermediate longitudinal partition when said carton is in a knock-down condition and being adapted, when said carton is erected, to hinge out of the plane of said remaining intermediate longitudinal partition whereby said securing means extends parallel with, and spaced from, said remaining intermediate longitudinal partition, and said intermediate transverse partitions extend normal to, and between, their said securing means and said remaining intermediate longitudinal partition;

(f) A second occlusion panel, integrally connected to, and forming part of, said remaining intermediate longitudinal partition and serving, on erection of the carton and the said hinging of the outer and intermediate transverse partitions associated with said remaining intermediate longitudinal partition, as well as the hinging of the outer longitudinal partition and said intermediate transverse partition securing means associated with said remaining intermediate longitudinal partition, to occlude areas formed in the latter and due to the said hinging, commensurate with the area of its said associated outer and intermediate transverse partitions and its said associated outer longitudinal partition and said intermediate transverse partition securing means; and

(g) A tertiary panel having a width substantially equal to the width of the intermediate row of article receiving compartments, said tertiary panel integrally connecting the other ends of each of said intermediate longitudinal partitions together and securing said other ends to the remaining end wall, as well as serving as an end partition for said intermediate row of article receiving compartments.

According to another aspect, the present invention relates to a one-piece blank adapted to form a unitary member constituting an interior assembly defining a plurality of rows of adjacent article receiving compartments within a carton having a wall structure including a pair of mutually opposed side walls, a pair of mutually opposed end walls, and a bottom; said blank being cut and scored to provide:

(a) A pair of first main panels each having a first primary portion adapted, when said assembly is positioned within said carton to be secured to an adjacent side wall so as to form an outer longitudinal partition, a second primary portion, and a plurality of secondary portions each integrally and hingedly connecting the said first and secondary primary portions of the associated main panel together;

(b) A tertiary panel spacing said pair of main panels apart and having a width substantially equal to the width of a said row of compartments, said tertiary panel being integrally and hingedly connected to said pair of main panels by means of a pair of geminal score lines, and being in alignment with said pair of main panels;

(c) A pair of occlusion panels, each integrally and hingedly secured to an adjacent marginal side edge of an associated said main panel by means of an associated first common score line and adapted, when folded along its said associated first common score line, to overlies its associated said main panel and to be secured to the said second primary portion of its said associated main panel;

(d) An additional main panel, having a first primary

portion, a second primary portion, a plurality of secondary portions integrally and hingedly connecting the said primary portions of their main panel together, and a hingeable end tab on at least one end of said additional main panel; said additional panel being hingedly and integrally connected, by means of a second common score line, to the remaining free marginal side edge of a selected one of said first main panels and adapted, when the occlusion panel associated with said selected one main panel overlies the latter and when said additional main panel is folded along said second common score line, to overlie said last-mentioned occlusion panel and to have its said second primary portion secured to said last-mentioned occlusion panel; folding of the remaining one of said first main panels along a first of said geminal score lines, enabling said occlusion panel associated with said remaining one main panel, to overlie said additional main panel and to be secured to said first primary portion of said additional main panel whereby,

(i) When said assembly is positioned within said carton, said first primary portion of said selected one main panel, when secured to an adjacent one of said side walls, forms a first outer longitudinal partition, said second primary portion of said selected one main panel, said occlusion panel secured thereto, and said second primary portion of said additional main panel, together, form a first intermediate longitudinal partition, and said secondary portions of said selected one main panel extend normal to, and between, their associated first and second primary portions and serve as a plurality of transverse partitions defining, with said first outer and first intermediate longitudinal partitions, a first outer row of article receiving compartments,

(ii) Said first primary portion of said remaining one main panel, when secured to the adjacent and remaining said side wall, forms a second outer longitudinal partition, said second primary portion of said remaining one main panel, said occlusion panel secured thereto, and said first primary portion of said additional main panel, together, form a second intermediate longitudinal partition, and said secondary portions of said remaining one main panel extend normal to, and between, their associated first and second primary portions and serve as a plurality of transverse partitions defining, with said second outer and second intermediate longitudinal partitions, a second outer row of article receiving compartments;

(iii) Said secondary portions of said additional main panel extend normal to, and between, their associated first and secondary primary portions and serve as a plurality of transverse partitions defining, with said first and second intermediate longitudinal partitions, a row of article receiving compartments intermediate said first and second outer rows of said compartments;

(iv) Said tertiary panel is secured to an adjacent first said end wall and connects one end of each of said first and second intermediate partitions together and to said end wall, and extends normal to said intermediate partitions;

(v) Each of said occlusion panels occlude the areas, commensurate with said first primary portion and said secondary portion, of each of the said main panels secured thereto; and

(e) Means on the ends, remote from said tertiary panel, of said first and second longitudinal partitions for securing the other ends of the latter to the adjacent and remaining said end wall.

The invention is illustrated in the accompanying drawings in which:

FIGURE 1 is a plan view of a one-piece blank adapted to form an interior assembly of mutually transverse partitions within a carton;

FIGURE 2 is an obverse view of the blank shown in FIGURE 1;

FIGURES 3 to 5 show various stages of folding the one-piece blank prior to it being united to a further blank adapted to form the wall structure of the carton;

FIGURE 6 shows the interior assembly united to the blank forming the wall structure of the carton;

FIGURE 7 is a perspective view of an erected carton; and

FIGURE 8 is a transverse section of an erected carton.

Referring to the drawings, and in particular to FIGURES 1 and 2 thereof, a one-piece blank of resilient material is scored and incised to provide a pair of first main panels, indicated generally at 1, 2, each having, respectively, a first primary portion 3, 4 and a secondary primary portion 5, 6. Main panel 1 is provided with an end tab 7 integrally and hingedly secured thereto along a score line 8. A tertiary panel 9, is integrally and hingedly connected to the second primary portion 5 of main panel 1 by means of a first geminal score line 10, and to the second primary portion 6 of main panel 2 by means of a second geminal score line 11, said panels 1, 2 and 9 being in alignment with one another.

Main panel 1 is provided with a plurality of secondary portions, indicated generally at 12, each integrally and hingedly connected, by a score line 13, to the first and secondary primary portions 3, 5 of said main panel 1. Similarly, main panel 2 is provided with a plurality of secondary portions, indicated generally at 14, each integrally and hingedly connected, by a score line 15, to the first and second primary portions 4, 6 of said main panel 2.

A first occlusion panel 16 is integrally and hingedly connected to an adjacent marginal side edge of main panel 1 by means of a first common score line 17, said panel 16 (as viewed in FIGURE 1), having a strip 18 of adhesive thereon. Similarly, a second occlusion panel 19 is integrally and hingedly connected to an adjacent marginal side edge of main panel 2 by means of a further first common score line 20, said second occlusion panel 19 (as viewed in FIGURE 1) having a pair of strips 21, 22 of pressure sensitive adhesive, each of said strips extending along and being adjacent to a marginal side edge of said second occlusion panel 19.

Integrally and hingedly connected, by means of a second common score line 23, to the remaining free marginal side edge of main panel 2, the latter constituting a selected one of said first main panels, is an additional main panel indicated generally at 24. The additional main panel 24 also has a first primary portion 26, a second primary portion 25, a plurality of secondary portions, indicated generally at 27, integrally and hingedly connecting, by means of score lines 28, said portions 25 and 26 together. Moreover, the additional main panel 24 is also provided with a hingeable end tab 29 integrally connected thereto along a score line 30.

As will be seen from FIGURE 1, end tabs 7, 29, first primary portions 3, 4 and 26, and the tertiary panel 9 are all coated with pressure sensitive adhesive, preferably employed throughout the construction of the carton to its knock-down form.

As will be seen from FIGURE 2, which is an obverse view of the blank shown in FIGURE 1, the first occlusion panel 16 is provided with a strip 31 of pressure sensitive adhesive extending along, and adjacent to, its free marginal side edge. The second primary portion 5 of main panel 1 is also provided with a strip 32 of pressure sensitive adhesive extending along, and adjacent to, its free marginal side edge, and the second primary portion 25 of the additional main panel 24 is also provided with a similar strip 33. Moreover, second primary portion 25 of the additional main panel 24 is also provided with a further strip 34 of pressure sensitive adhesive extending along and adjacent to the second common score line 23.

As is also shown in FIGURE 2, the second primary portion 6 of main panel 2 is provided with a spot 35 of pressure sensitive adhesive, said spot 35 being located adjacent the second common score line 23. A similar spot 36 of pressure sensitive adhesive is provided on the second occlusion panel 19 adjacent one free corner thereof.

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To assemble the carton to its knock-down form, the one-piece blank, ultimately forming the interior assembly, is folded as is shown in FIGURE 3, so that the first occlusion panel 16, upon folding along the first common score line 17, partially overlies main panel 1 whereby the strip 32 on the latter will be in registry with the strip 31 on said first occlusion panel 16. Moreover, when the second occlusion panel 19 is folded along the further first common score line 20, it will partially overlie main panel 2 whereby the spots 35, 36 of adhesive will be in registry with one another, such positioning of panels 19 and 2 being shown in FIGURE 3.

Thereafter, and as is shown in FIGURE 4, the additional main panel 24 is folded about the second common score line 23 so that it overlies the second occlusion panel 19 and so that the strips 21, 22 of adhesive on the latter will be, respectively, in registry with the strips 33, 34 of adhesive on the additional main panel 24.

Finally, the blank is folded about the first geminal score line 10 whereby the first occlusion panel 16 completely overlies the tertiary panel 9 and partially overlies the additional main panel 24 and whereby the coated surface of the first primary portion 26 of the latter will be in registry with the strip 18 of adhesive on the first occlusion panel 16, such position being shown in FIGURE 5.

The assembly thus formed is then placed on a second one-piece blank, as is shown in FIGURE 6, said last-mentioned blank ultimately forming the wall structure of the carton.

As will be seen from reference to FIGURE 6, the wall structure blank is constituted by a side wall panel 37 having a hingeable tab or manufacturer's gap 38, coated with adhesive on its obverse face, integrally connected to one edge by means of a score line 39, said side panel 37 having a strip 40 of adhesive therein substantially corresponding to the first primary portion 3 of the main panel 1. Side wall panel 37 is integrally and hingedly connected, by a score line 41, to an adjacent end wall panel 42 which has a strip (not shown) of adhesive substantially corresponding to the tertiary panel 9, said end wall panel 42, in turn, being integrally and hingedly connected, by means of a score line 43, to a side wall panel 44, said last-mentioned panel having a strip (not shown) of adhesive substantially corresponding to the first primary portion 4 of main panel 2.

Side wall panel 44 is also integrally and hingedly connected, by a score line 45, to a further end wall panel 46 provided with two spaced and identical strips 47, 48 of adhesive each substantially corresponding to the area of the end tabs 7 and 29. End wall panel 46 is also provided with a third strip 49 of adhesive, substantially corresponding to the area of the manufacturer's gap 38.

Each of the side wall panels 37, 44 is provided with a top side closure flap 50 and a bottom side closure flap 51 and each of the end wall panels 42, 46 is provided with a top end closure flap 52 and a bottom end closure flap 53.

Accordingly, and as is shown in FIGURE 6, the assembly is placed on the wall structure so that the coated side of the first primary portion of main panel 2 is in registry with the strip of adhesive on side wall panel 44 and so that the coated surface of tertiary panel 9 is in registry with the strip of adhesive on end wall panel 42.

Side wall panel 37 is then folded about score line 41 to bring its coated strip 40 into registry with the coated surface of the first primary portion 3 of main panel 1 and so that the coated side of the manufacturer's gap 38 will be facing upwardly.

Finally, end wall panel 46 is folded about score line 45 so that adhesive strips 47, 48 thereon will, respectively, be brought into registry with the coated surfaces of end tabs 29 and 7, and so that adhesive strip 49 on said end wall panel 46 will be brought into registry with the coated surface of the manufacturer's gap 38.

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Pressure is then brought to bear on the entire structure to bring about adhesion between the components and to form a knock-down carton.

It will be appreciated that when a carton is in its knock-down condition, the first primary portion and secondary portion of each main panel will lie in the same plane as their associated second primary portion. However, when a carton is erected, each of said first primary portions and secondary portions will swing out of the said plane whereby each first primary portion will be parallel to its associated second primary portion, and the associated secondary portions, whilst integrally connecting said primary portions together, will be normal thereto. Accordingly, when the said portions swing out from their respective main panels, an interior assembly of mutually transverse partitions is provided within the carton.

Such an assembly is shown in FIGURES 7 and 8 where it will be seen that, due to the first primary portion 3 of main panel 1 being secured to the adjacent side wall 37, it will form an outer longitudinal partition, as does the first primary portion 4 of main panel 2, said portion 4 being secured to side wall 44.

The second primary portion 5 of the main panel 1 and the first primary portion 26 of the additional main panel 24, due to being adhesively secured to the first occlusion panel 16 form, with the latter, a selected one intermediate longitudinal partition. Similarly, the second primary portion 6 of the main panel 2 and the second primary portion 25 of the additional main panel 24, due to being adhesively secured to the second occlusion panel 19 form, with the latter, a remaining intermediate longitudinal partition. Thus, each outer longitudinal partition and the adjacent intermediate longitudinal partition define an outer article receiving row, and the pair of intermediate longitudinal partitions, together, define an intermediate article receiving row.

The secondary portions 12 and 14 of main panels 1 and 2 respectively, form a plurality of transverse partitions arranged to divide each of their respective outer article receiving rows into a plurality of article receiving compartments. Similarly, the secondary portions 27 of the additional main panel 24 form a plurality of transverse partitions arranged to divide the intermediate article receiving row into a plurality of article receiving compartments.

It will be seen that the end tabs 7 and 29 serve to secure one end of each of their respective intermediate longitudinal partitions to the adjacent end wall 46 of the carton. Moreover, the tertiary panel 9 integrally connects the other ends of said intermediate longitudinal partitions together and also secures said other ends to the remaining end wall 42 of the carton. The tertiary panel 9 also serves as an end partition for the intermediate row of article receiving compartments.

The first occlusion panel 16 serves, on erection of the carton and upon hinging of the outer transverse partitions 12 and outer longitudinal partition 3 out of the plane of the selected intermediate longitudinal partition, to occlude the open areas in the latter, as is clearly shown in FIGURES 7 and 8, said open areas being commensurate with said outer transverse partitions 12 and other longitudinal partition 3. Thus, the first occlusion panel 16 will prevent articles in the adjacent outer row of compartments from contacting the articles in the intermediate row of compartments.

Similarly, the second occlusion panel 19, forming part of the remaining intermediate longitudinal partition serves, on erection of the carton and the hinging of the outer transverse partitions 14 and outer longitudinal partition 4 out of the plane of said remaining intermediate longitudinal partition, to occlude the open areas in the latter, said areas being commensurate with said outer transverse partitions 14 and said outer longitudinal partition 4. Moreover, the second occlusion panel 19 also serves, on erection of the carton and the hinging of the intermediate transverse partitions 27 and the means

26 securing them to the first occlusion panel 16 out of the plane of the remaining intermediate longitudinal partition, to occlude the open areas in the latter, said areas being commensurate with said intermediate transverse partitions 27 and their said securing means 26. Thus, the second occlusion panel 19 serves to prevent articles in the intermediate row of compartments from contacting articles in the remaining outer row of compartments.

I claim:

1. A carton having a wall structure including a pair of mutually opposed side walls, a pair of mutually opposed end walls, and a bottom; said carton including an interior assembly of mutually transverse partitions fixed to said wall structure, said assembly including:

- (a) a pair of outer longitudinal partitions each secured at least to an adjacent said side wall;
- (b) a pair of intermediate longitudinal partitions each secured, at one end thereof, to an adjacent said end wall and each, with an adjacent said outer longitudinal partition, defining an outer article receiving row, said pair of intermediate longitudinal partitions, together, defining an intermediate article receiving row;
- (c) a plurality of outer transverse partitions arranged to divide each of said outer article receiving rows into a plurality of article receiving compartments, each of said outer transverse partitions being integrally and hingedly connected to an associated said outer longitudinal partition and an adjacent said intermediate longitudinal partition; each of said outer transverse partitions and their associated outer longitudinal partition normally being in the plane of a said adjacent intermediate longitudinal partition when said carton is in a knock-down condition and being adapted, when said carton is erected, to hinge out of said plane whereby said associated outer longitudinal partition extends parallel with, and spaced from, said adjacent longitudinal partition, and said outer transverse partitions extend normal to, and between, their said associated outer and intermediate longitudinal partitions;
- (d) a first occlusion panel, integrally connected to, and forming part of, a selected one of said intermediate longitudinal partitions and serving, on erection of said carton and the said hinging of the outer transverse partitions and outer longitudinal partition associated with said selected intermediate longitudinal partition, to occlude areas formed in the latter and due to the said hinging, commensurate with the area of its associated outer transverse partitions and outer longitudinal partition;
- (e) a plurality of intermediate transverse partitions arranged to divide said intermediate article receiving row into a plurality of article receiving compartments, each of said intermediate transverse partitions being integrally and hingedly connected, at one end thereof, to the remaining intermediate longitudinal partition and, at the other end thereof, being integrally and hingedly connected to means for securing said intermediate transverse partitions to said first occlusion panel; each of said intermediate transverse partitions and their said securing means normally forming part of the said remaining intermediate longitudinal partition when said carton is in a knock-down condition and being adapted, when said carton is erected, to hinge out of the plane of said remaining intermediate longitudinal partition whereby said securing means extends parallel with, and spaced from, said remaining intermediate longitudinal partition, and said intermediate transverse partitions extend normal to, and between, their said securing means and said remaining intermediate longitudinal partition;
- (f) a second occlusion panel, integrally connected to, and forming part of, said remaining intermediate

longitudinal partition and serving, on erection of the carton and the said hinging of the outer and intermediate transverse partitions associated with said remaining intermediate longitudinal partition, as well as the hinging of the outer longitudinal partition and said intermediate transverse partition securing means associated with said remaining intermediate longitudinal partition, to occlude areas formed in the latter and due to the said hinging, commensurate with the area of its said associated outer and intermediate transverse partitions and its said associated outer longitudinal partition and said intermediate transverse partition securing means; and

- (g) a tertiary panel having a width substantially equal to the width of the intermediate row of article receiving compartments, said tertiary panel integrally connecting the other ends of each of said intermediate longitudinal partitions together and securing said other ends to the remaining end wall, as well as serving as an end partition for said intermediate row of article receiving compartments.

2. A one-piece blank adapted to form a unitary member constituting an interior assembly defining a plurality of rows of adjacent article receiving compartments within a carton having a wall structure including a pair of mutually opposed side walls, a pair of mutually opposed end walls, and a bottom; said blank being cut and scored to provide:

- (a) a pair of first main panels each having a first primary portion adapted, when said assembly is positioned within said carton to be secured to an adjacent side wall so as to form an outer longitudinal partition, a second primary portion, and a plurality of secondary portions each integrally and hingedly connecting the said first and secondary primary portions of the associated main panel together;
- (b) a tertiary panel spacing said pair of main panels apart and having a width substantially equal to the width of said row of compartments, said tertiary panel being integrally and hingedly connected to said pair of main panels by means of a pair of geminal score lines, and being in alignment with said pair of main panels;
- (c) a pair of occlusion panels, each integrally and hingedly secured to an adjacent marginal side edge of an associated said main panel by means of an associated first common score line and adapted, when folded along its said associated first common score line, to overlie its associated said main panel and to be secured to the said second primary portion of its said associated main panel;
- (d) an additional main panel, having a first primary portion, a second primary portion, a plurality of secondary portions integrally and hingedly connecting the said primary portions of their main panel together, and a hingeable end tab on at least one end of said additional main panel; said additional panel being hingedly and integrally connected, by means of a second common score line, to the remaining free marginal side edge of a selected one of said first main panels and adapted, when the occlusion panel associated with said selected one main panel overlies the latter and when said additional main panel is folded along said second common score line, to overlie said last-mentioned occlusion panel and to have its said second primary portion secured to said last-mentioned occlusion panel; folding of the remaining one of said first main panels along a first of said geminal score lines, enabling said occlusion panel associated with said remaining one main panel, to overlie said additional main panel and to be secured to said first primary portion of said additional main panel whereby,
  - (i) when said assembly is positioned within said carton, said first primary portion of said selected one main panel, when secured to an adjacent one

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- of said side walls, forms a first outer longitudinal partition, said second primary portion of said selected one main panel, said occlusion panel secured thereto, and said second primary portion of said additional main panel, together, form a first intermediate longitudinal partition, and said secondary portions of said selected one main panel extend normal to, and between, their associated first and second primary portions and serve as a plurality of transverse partitions defining, with said first outer and first intermediate longitudinal partitions, a first outer row of article receiving compartments;
- (ii) said first primary portion of said remaining one main panel, when secured to the adjacent and remaining said side wall, forms a second outer longitudinal partition, said second primary portion of said remaining one main panel, said occlusion panel secured thereto, and said first primary portion of said additional main panel, together, form a second intermediate longitudinal partition, and said secondary portions of said remaining one main panel extend normal to, and between, their associated first and second primary portions and serve as a plurality of transverse partitions defining, with said second outer and second intermediate longitudinal partitions, a second outer row of article receiving compartments;
- (iii) said secondary portions of said additional main panel extend normal to, and between their

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- associated first and second primary portions and serve as a plurality of transverse partitions defining, with said first and second intermediate longitudinal partitions, a row of article receiving compartments intermediate said first and second outer rows of said compartments;
- (iv) said tertiary panel is secured to an adjacent first said end wall and connects one end of each of said first and second intermediate partitions together and to said end wall, and extends normal to said intermediate partitions;
- (v) each of said occlusion panels occlude the areas, commensurate with said first primary portion and said secondary portion, of each of said main panels secured thereto; and
- (e) means on the ends, remote from said tertiary panel, of said first and second longitudinal partitions for securing the other ends of the latter to the adjacent and remaining said end wall.

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