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2,673,023

COLLAPSIBLE PARTITIONED DISPLAY CARTON

Filed June 29, 1953

2 Sheets-Sheet 1

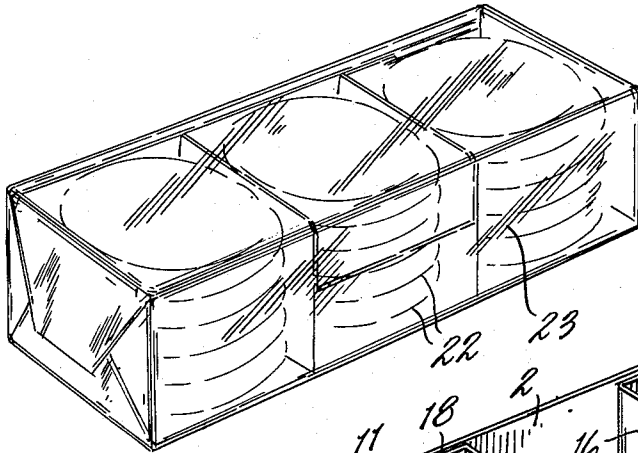


Fig. 1.

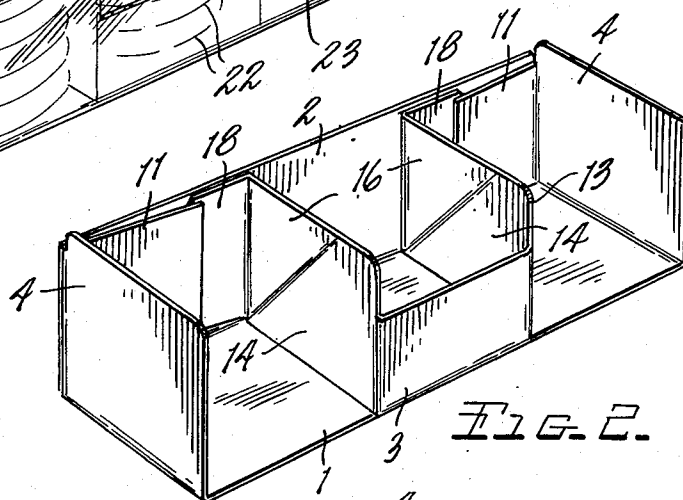


Fig. 2.

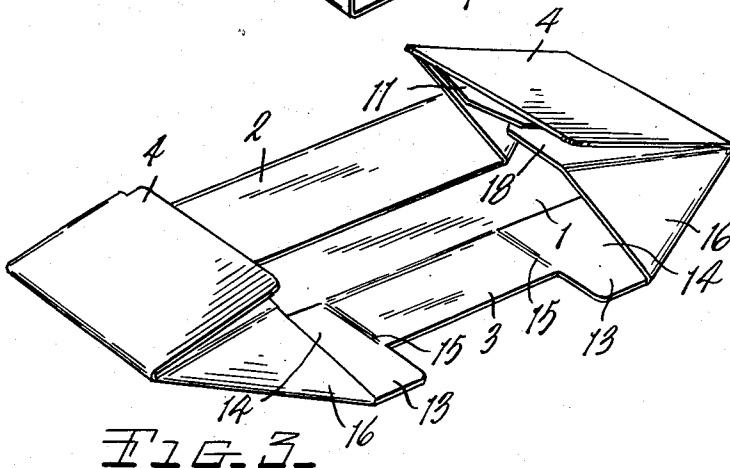


Fig. 3.

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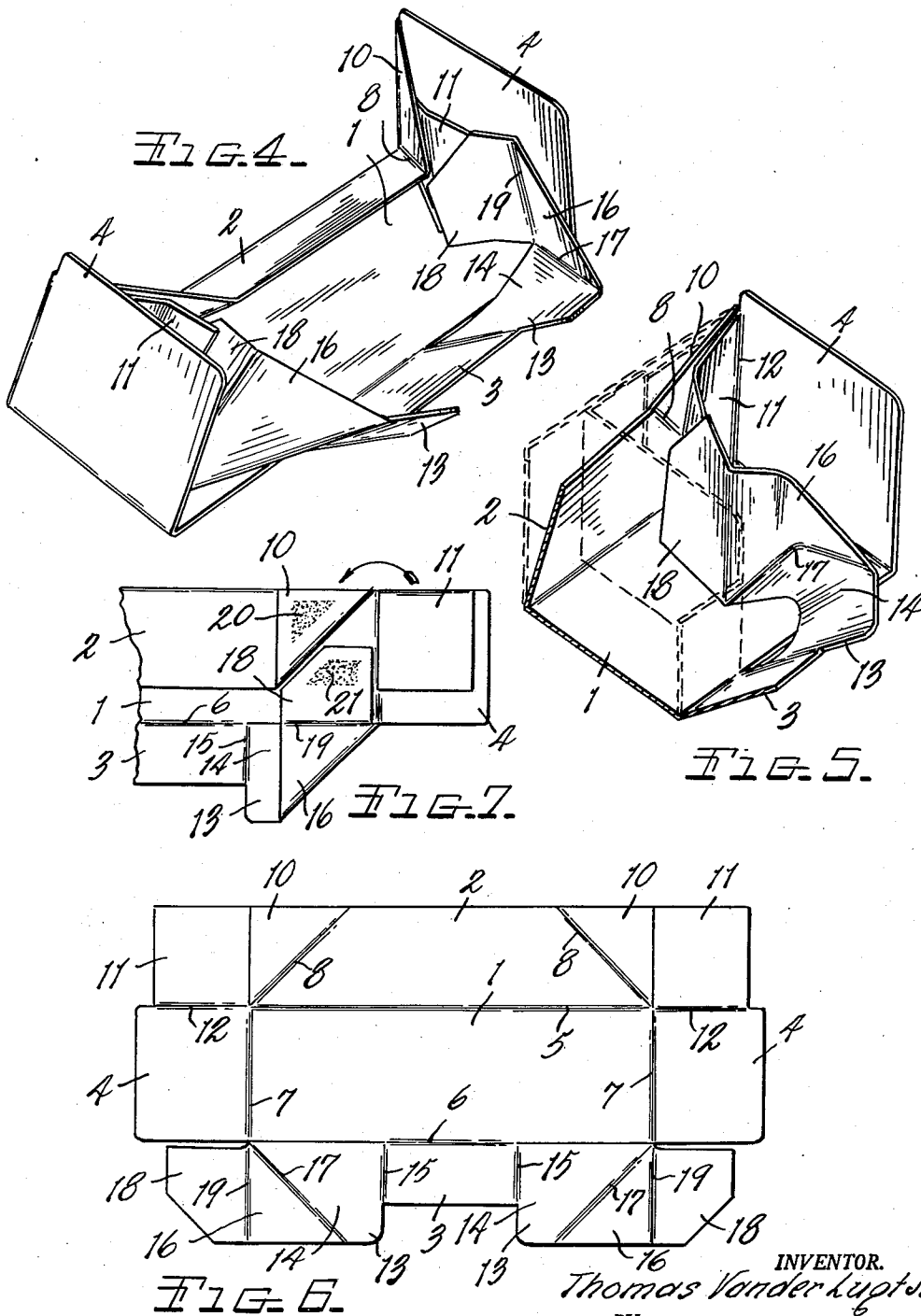
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COLLAPSIBLE PARTITIONED DISPLAY CARTON

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2 Sheets-Sheet 2



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COLLAPSIBLE PARTITIONED DISPLAY
CARTON

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8 Claims. (Cl. 229-41)

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This invention relates to improvements in a collapsible partitioned display carton.

The main objects of this invention are:

First, to provide a collapsible partitioned display carton in which the packaged product is quite fully exposed and at the same time well protected.

Second, to provide a collapsible partitioned carton having these advantages which may be formed integrally of paperboard and readily folded and glued for shipment and storage in the knockdown and may be quickly and easily erected.

Third, to provide a collapsible partitioned carton having these advantages which may be economically produced and the major portion of a sheet of paperboard is utilized.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawings, in which:

Fig. 1 is a front perspective view of a partitioned carton embodying my invention with contents conventionally illustrated therein and with a transparent wrapper therearound.

Fig. 2 is a front perspective view of the carton before filling and wrapping.

Fig. 3 is a perspective view of the collapsed carton with one end wall partially raised.

Fig. 4 is a perspective view showing a succeeding step in the erecting of the carton.

Fig. 5 is a fragmentary perspective view in full lines, further manipulation of the parts in erecting and the erected position shown by dotted lines.

Fig. 6 is a plan view of the cut and scored blank in the flat.

Fig. 7 is a fragmentary plan view illustrating certain steps of forming the collapsed carton.

The embodiment of my invention is formed of an integral sheet of paperboard cut and scored to provide a bottom 1, a rear wall 2, front wall 3, and end walls 4, 4. The rear wall is hingedly joined to the bottom as by scoring conventionally illustrated at 5. The front wall 3 is relatively short as compared to the rear wall and is centrally located relative thereto and hingedly joined to the bottom by the scoring 6. The end walls 4 are hingedly joined to the bottom as by scoring 7, 7.

The rear wall has diagonal scores 8, 8 therein extending from the lower ends of its end edges,

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this providing hinged flaps 10 to which the corner flaps 11 are secured. The corner flaps are hingedly connected to the end walls as by scores 12.

The transverse partition members designated generally by the numeral 13 comprise front sections 14 hingedly secured to the ends of the front wall by the scores 15 and rear sections 16 hingedly connected to the front sections by the diagonal hinging scores 17. The attaching flaps 18 are hingedly connected to the rear partition section 16 by the scores 19.

The corner flaps 11 are secured to the inner sides of the hinging flaps 10 of the rear wall desirably by adhesive 20 while the hinging flaps 18 of the partition members are secured to the corner flaps desirably by adhesive 21. It will be noted that the corner flaps are of such length that their ends project beyond the hinging flaps 10 and that the hinging flaps 18 are secured on the rear sides of the projecting ends of the corner flaps. This arrangement is a desirable factor in the producing of the cartons in the knockdown as the folding and gluing operations are very simple.

In producing the collapsed carton, the rear wall is folded forwardly upon the bottom and its hinging flaps are folded on the outer side of the rear wall as is best shown in Fig. 7. The transverse partition members are folded on their folding lines 7 which positions the hinging flaps 18 thereof in side by side relation to the hinging flaps of the rear wall. Adhesive is then applied at 20 and 21 to the hinging flaps 10 and 18 respectively and the end wall with the corner flap folded thereon is folded upon the hinging flaps 10 and 18. This completes the forming of the carton in the knockdown.

In erecting, the end walls are pulled upwardly and the front wall swung to erected position; at the same time the partition walls are adjusted to erected position, the steps in such adjustment being shown by full lines in Fig. 5 and final erected position being shown in Figs. 2 and 5. In this position the transverse partition members rest upon the bottom and they coact with connected parts as very effective braces.

The front wall 3 is in the embodiment illustrated relatively narrow as it is desired to quite fully display the contents indicated at 22 in Fig. 1. After the carton is erected the contents, for example cookies or like baked goods, as illustrated, are placed in the compartments and the loaded carton provided with a transparent wrapper 23. While two of the compartments or cells

are fully open at the front and the third partially open, the structure, as stated, when erected is strong and rigid and it does not collapse without manual manipulation, the collapsing steps being the reverse of what has been described in erecting the carton.

I have illustrated and described a highly practical embodiment of my invention. I have not attempted to illustrate or describe other embodiments or adaptations as it is believed that the disclosure made will enable those skilled in the art to embody or adapt my invention as may be desired.

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

1. A collapsible partitioned carton formed integrally of paperboard cut and scored to provide a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being relatively narrow and centrally located relative to the bottom and constituting the front wall of an intermediate compartment, the rear wall having folding scores extending diagonally outward from their end edges providing hinging flaps, the end walls having rear corner flaps hingedly connected to their rear edges and secured to the inner sides of said hinging flaps, the front wall having partition members hingedly connected to the ends thereof, said partition members having folding scores extending diagonally outward from their inner lower corners to their upper edges and having sealing flaps hingedly connected to their inner ends and secured to the rear sides of said rear corner flaps, the parts when erected coacting to maintain the carton in erected position.

2. A collapsible partitioned carton formed integrally of paperboard cut and scored to provide a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being centrally located relative to the bottom and constituting the front wall of an intermediate compartment, the rear wall having folding scores extending diagonally outward from their end edges providing hinging flaps, the end walls having rear corner flaps hingedly connected to their rear edges and secured to said hinging flaps, the front wall having partition members hingedly connected to the ends thereof, said partition members having folding scores extending diagonally outward from their inner lower corners to their upper edges and having sealing flaps hingedly connected to their inner ends and secured to said rear corner flaps, the parts when erected coacting to maintain the carton in erected position.

3. A collapsible partitioned carton comprising a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being relatively short as compared to the rear wall and of the length of one compartment and centrally located relative to the bottom, the rear wall having folding scores extending diagonally outward from their end edges providing hinging flaps, rear corner flaps hingedly connected to the rear edges of the end walls and to the inner sides of said hinging flaps with end portions thereof free from the rear wall, and partition members hingedly connected to the ends of the front wall, said partition members having folding scores extending diagonally outward from their inner lower corners and having sealing flaps hingedly connected to their inner ends and secured to the rear sides of said rear corner flaps, said partition

members having folding scores extending from their inner lower corners diagonally outward to their upper edges, the parts when erected coacting to maintain the carton in erected position.

4. A collapsible partitioned carton comprising a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being relatively short as compared to the rear wall and of the length of one compartment and centrally located relative to the bottom, the rear wall having folding scores extending diagonally outward from their end edges providing hinging flaps, rear corner flaps hingedly connected to the rear edges of the end walls and to the inner sides of said hinging flaps, and partition members hingedly connected to the ends of the front wall, said partition members having folding scores extending diagonally outward from their inner lower corners and having sealing flaps hingedly connected to their inner ends and secured to said rear corner flaps, said partition members having folding scores extending from their inner lower corners diagonally outward to their upper edges.

5. A collapsible partitioned display carton formed integrally of paperboard cut and scored to provide a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being relatively short and narrow as compared to the rear wall and centrally positioned relative thereto and constituting a front wall of an intermediate compartment, the rear wall having hinging flaps at the ends thereof swingable on diagonal lines, the end walls having rear corner flaps hingedly connected to the said hinging flaps with their ends projecting beyond the same, and partition members hingedly connected to the ends of the front wall and having hinged flaps at their rear ends secured to the rear sides of the rear corner flaps, said partition members comprising foldably hinged sections, said partition members when erected being in supported engagement with the bottom and constituting bracing members for maintaining the carton in erected position.

6. A collapsible partitioned display carton formed integrally of paperboard cut and scored to provide a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being relatively short and narrow as compared to the rear wall and centrally positioned relative thereto and constituting a front wall of an intermediate compartment, the rear wall having hinging flaps at the ends thereof swingable on diagonal lines, the end walls having rear corner flaps hingedly connected to the said hinging flaps, and partition members hingedly connected to the ends of the front wall and having hinged flaps at their rear ends secured to the rear sides of the rear corner flaps, said partition members comprising foldably hinged sections.

7. A collapsible partitioned display carton comprising a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being relatively short as compared to the rear wall and centrally positioned relative thereto and constituting a front wall of one compartment, the rear wall having hinging flap portions at the ends thereof foldable thereon, the end walls having rear corner flaps hingedly connected to said hinging flaps with their ends projecting beyond the hinging flaps and at the inner side of the rear wall, and transverse partition members comprising foldably hinged front and rear sections, the front sections being hingedly connected to the ends of the front wall, the rear sections

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having hinging flaps secured to the rear sides of the rear corner flaps, said partition members when erected being in supported engagement with the bottom and constituting bracing members for maintaining the walls in erected position.

8. A collapsible partitioned display carton comprising a bottom, rear, front and end walls hingedly connected to the bottom, the front wall being relatively short as compared to the rear wall and centrally positioned relative thereto and constituting a front wall of one compartment, the rear wall having hinging flap portions

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at the ends thereof foldable thereon, the end walls having rear corner flaps hingedly connected to said hinging flaps, and transverse partition members comprising foldably hinged front and rear sections, the front sections being hingedly connected to the ends of the front wall, the rear sections having hinging flaps secured to the rear corner flaps.

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No references cited.