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E. C. SHERMAN ETAL
DISPLAY CARTON WITH PARTITION

3,166,229

Filed Nov. 6, 1962

FIG - 3

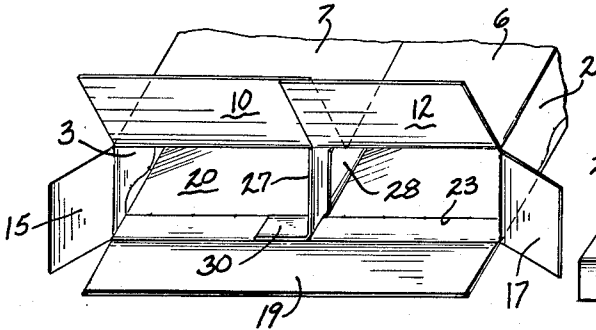


FIG - 5

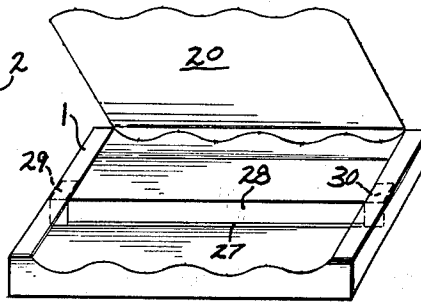


FIG - 2

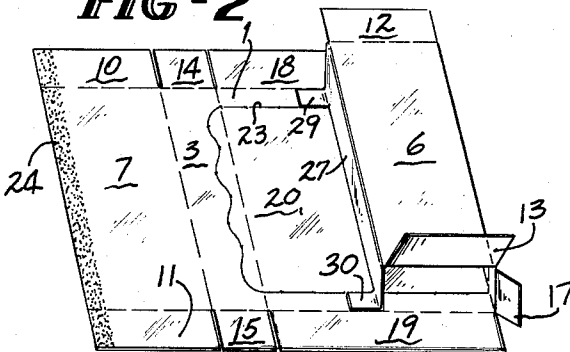


FIG - 4

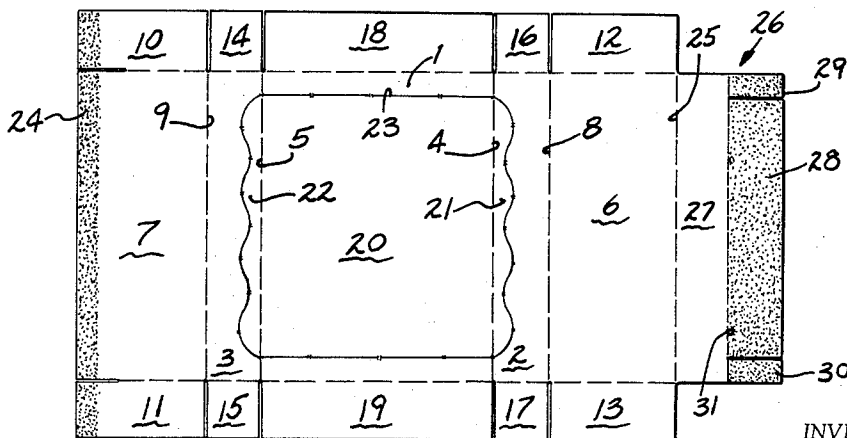
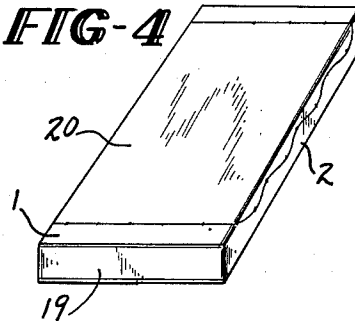


FIG - 1

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3,166,229

DISPLAY CARTON WITH PARTITION

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2 Claims. (Cl. 229-27)

This invention relates to a novel display carton fabricated from a one piece blank and having a fixed longitudinal central partition.

This invention more specifically relates to a novel display carton formed from a one piece blank and having a two ply central partition fixed only at its ends to the top wall of the carton. The top wall being provided with a removable section secured thereto by perforations and removable to display the contents of the carton.

It has been found desirable in the art to provide an inexpensive paperboard carton which can be end loaded with candy bars or the like by conventional machinery. Such a carton, however, must be able to withstand the compressive forces applied thereto when a plurality of loaded cartons are stacked one on top of another without injury to the contents thereof. The carton must furthermore provide means integral therewith to allow the contents within the container to be readily viewed by the consumer when the carton is displayed on the dealer's shelf.

Prior art structures are known in which a carton is fabricated from a one piece blank and has a fixed central partition. In these prior art devices of which Zilles 2,998,178 is representative; the central partition member is formed integral with a bottom wall panel and is glued directly across the top wall along an integral intumed portion parallel to the top wall. No provision is made to display the contents of the package. Indeed, no such provision would be possible since the central partition would interfere with tearing away a portion of the top wall along a predetermined perforated pattern.

It is therefore a feature of this invention to provide a display carton having a fixed two ply central partition fixed in such a manner that a perforated portion in the top of the carton can be removed for display purposes.

It is also a feature of this invention to provide a novel display package which is formed from a one piece blank.

Another feature of this invention is to provide a novel display package which can be stacked one on top of another and withstand the resultant compressive force without affecting the delicate contents therein.

These and other features and advantages of this invention will become more readily apparent from the following detailed description and accompanying drawings in which:

FIGURE 1 is a plan view of the blank from which the carton of this invention is formed.

FIGURE 2 is a view showing the blank of FIGURE 1 partially folded and glued.

FIGURE 3 is a view showing the folded carton prior to closing the end flaps.

FIGURE 4 is a view showing the completely folded carton.

FIGURE 5 shows the folded carton with the display panel partially removed.

Referring now to FIGURE 1, the one piece blank of this invention includes a top panel 1. Side panels 2 and 3 are connected to the top panel 1 along longitudinal crease lines 4 and 5 respectively. Bottom forming panels 6 and 7 are joined to respective side panels 2 and 3 along longitudinal crease lines 8 and 9. End panels 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 are joined to respective bottom, side and top panels along transverse crease lines to form end walls when folded inwardly in a

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conventional manner. A display panel 20 is formed in the top panel 1 and has portions 21 and 22 extending into respective side panels 2 and 3. Display panel 20 is joined to the top and side panels along a perforated line 23 and can be readily removed to expose the contents in the package. Bottom forming panel 7 is slightly wider than bottom forming panel 6 so that panel 7 overlaps panel 6 along a glue strip 24 when the bottom panels are joined together. The overall dimensions of panels 6 and 7 when joined together is equal to the overall dimensions of top panel 1. Connected to bottom panel 6 along a transverse fold line 25 is a partition forming panel generally indicated 26. Partition forming panel 26 includes a partition member 27, a flap 28, and a pair of tabs 29 and 30. The flap 28 is joined to the partition member 27 along a longitudinal perforated fold line 31. The flap 28 is adapted to be folded back onto the partition member 27 to form a reinforced two ply partition panel. Tabs 29 and 30 are adapted to be folded in a direction opposite to the flap 28 and secured to the top panel as illustrated in FIGURE 2.

To form a carton from the blank shown in FIGURE 1, flap 28 is folded back onto partition member 27 and secured thereto by gluing or the like to form a two ply central partition. The blank is then folded in the manner illustrated in FIGURE 2 to bring tabs 29 and 30 into engagement with top panel 1. Tabs 29 and 30 are secured to top panel 1 by glue or other suitable fastening means. Note that tabs 29 and 30 are secured to top panel 1 at the margins formed on the sides of display panel 20 so that the display panel 20 can be removed in the manner illustrated in FIGURE 5. The blank is then further folded as shown in FIGURE 3 to bring glue strip 24 on panel 7 into overlapping relation with panel 6. Panels 6 and 7 are thus joined to form a bottom panel having the same longitudinal and transverse dimensions as top panel 1. End flaps 10, 14, 18, 16, and 12 are then folded inwardly in a conventional manner to close one end of the carton. The carton is loaded through the other open end which is subsequently closed by folding end panels 11, 15, 19, 17 and 13 inwardly and securing them in a conventional manner. FIGURE 4 shows the completely folded and closed carton. FIGURE 5 illustrates the carton of FIGURE 4 with the display panel partially removed to expose the contents of the carton for display purposes.

The resulting carton formed in the manner described above provides a structure with a two ply central partition which is fastened to the top panel by tabs 29 and 30 so that the display panel 20 can be torn away at perforation 23 to display the contents therein. The two ply central partition is effective to prevent crushing of the contents in the carton when several of the cartons are stacked one or top of the other for transportation purposes.

Although this invention has been described in connection with a preferred embodiment illustrated in the drawings, it is apparent that various changes in design and structure are contemplated which will be within the scope of the appended claims.

What is claimed is:

1. A carton formed from a one piece blank comprising a top wall, side walls hingedly secured to said top walls, a bottom wall including first and second panels hingedly secured to respective side walls and joined together to form an integral bottom wall, a longitudinal central partition hingedly connected to at least one of said bottom panels, a pair of spaced tabs formed integral with said partition and adapted to be joined to the top wall to securely hold said partition member in place while leaving the intermediate portions of said partition between said tabs and said top wall unattached, end panels hingedly connected to respective top, bottom and side walls adapted

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to be folded into end walls, and a display panel formed integral with said top wall and removably secured thereto along a predetermined perforated line.

2. A carton formed from a one piece blank comprising a top wall, side walls hingedly secured to said top walls, a bottom wall including first and second panels hingedly secured to respective side walls and joined together to form an integral bottom wall, a longitudinal central partition hingedly connected to at least one of said bottom panels, a pair of spaced tabs formed integral with said partition and adapted to be joined to the top wall to securely hold said partition member in place while leaving the intermediate portions of said partition between said tabs and said top wall unattached end panels hingedly connected to respective top, bottom and side walls adapted to be folded into end walls, said longitudinal central partition including a member hingedly connected to one of said bottom panels, a flap hingedly connected to said member, said flap being foldable onto said member to provide a two ply partition, tabs hingedly connected to

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end portions of said member and folded in a direction opposite to said flap for joining to said top wall, and a display panel formed integral with said top and side walls removably secured thereto along a predetermined perforated line clear of said tabs.

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