

Aug. 16, 1960

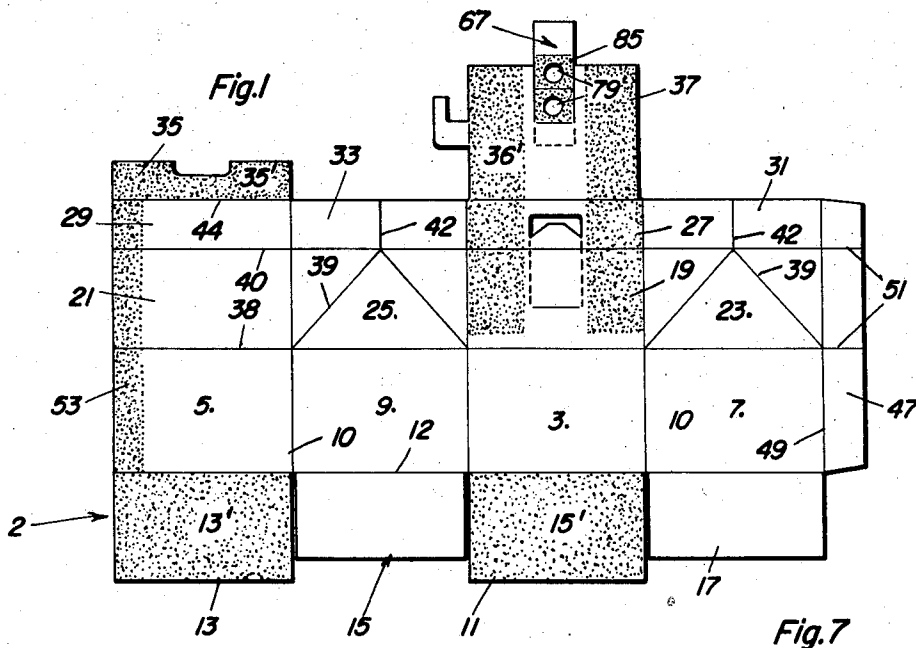
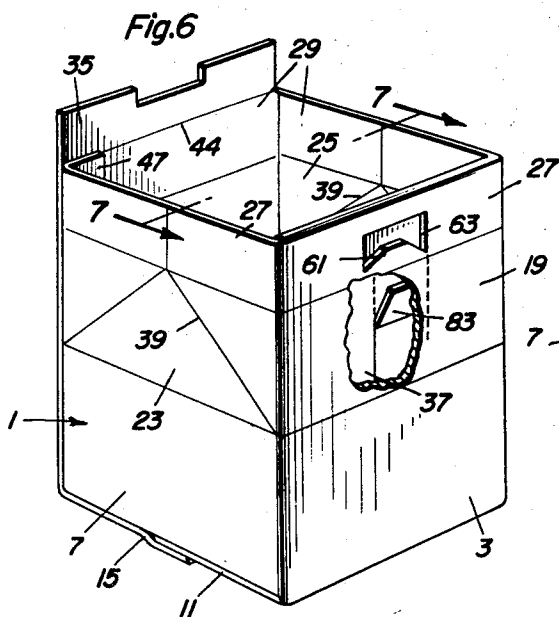
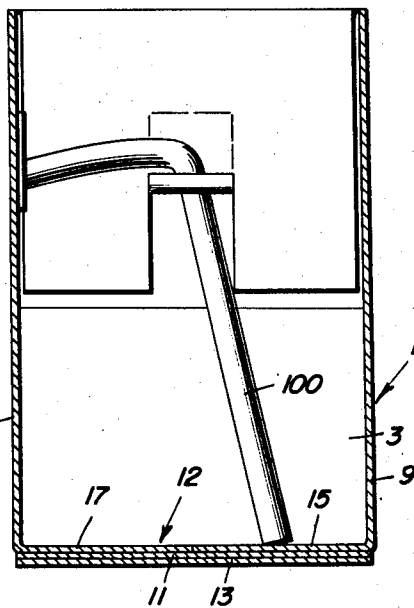
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2,949,217

ONE-PIECE CARTON AND SIPPER STRAW HOLDER

Filed Oct. 7, 1958

3 Sheets-Sheet 1



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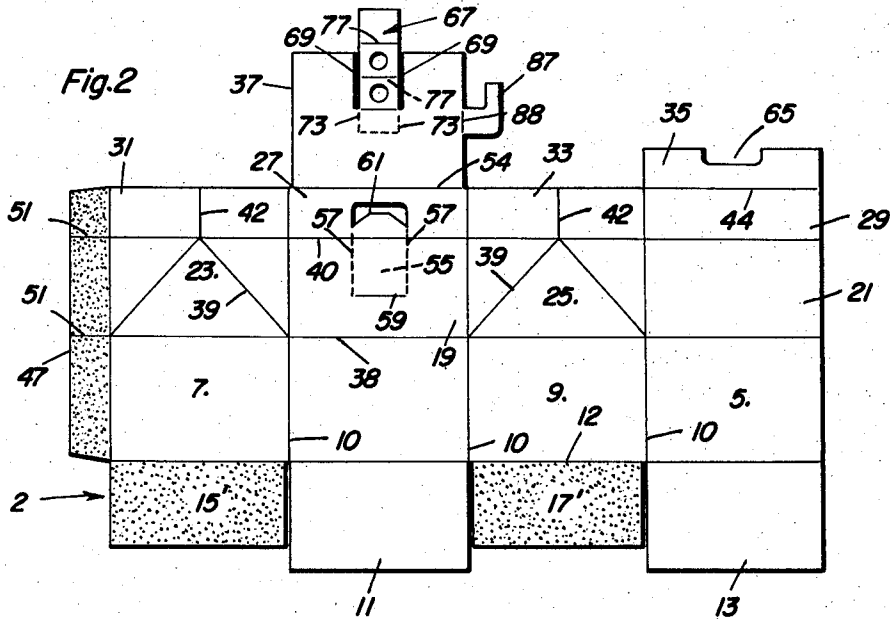
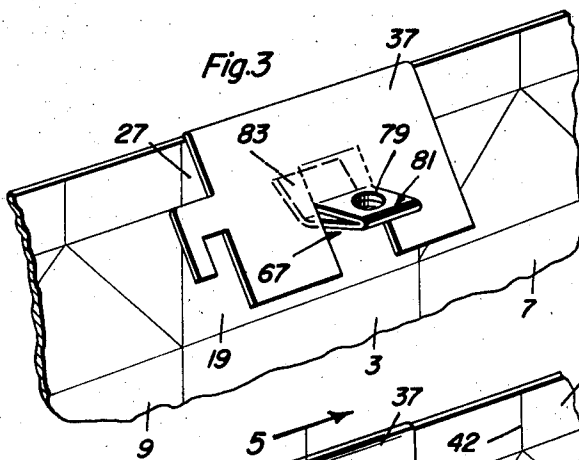
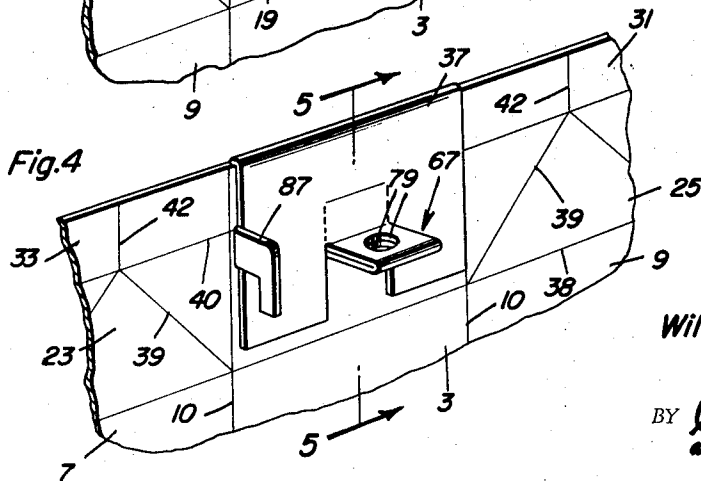
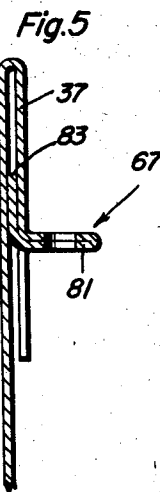
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ONE-PIECE CARTON AND SIPPER STRAW HOLDER

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3 Sheets-Sheet 2



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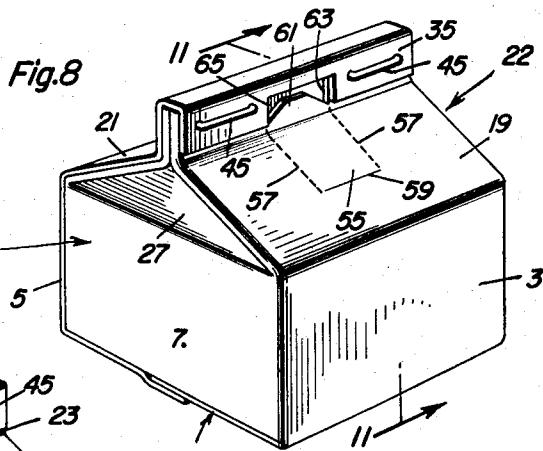
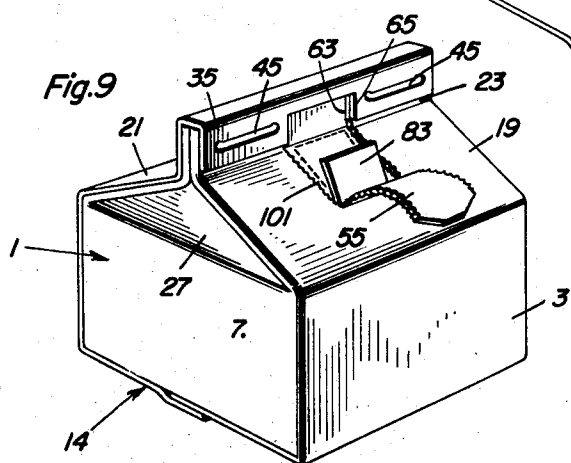
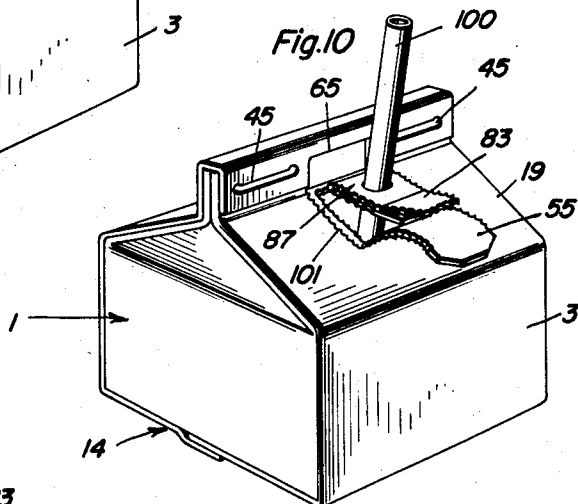
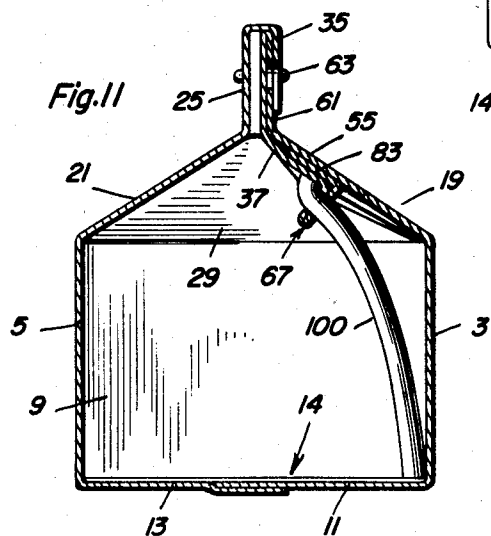
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ONE-PIECE CARTON AND SIPPER STRAW HOLDER

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3 Sheets-Sheet 3



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2,949,217

ONE-PIECE CARTON AND SIPPER STRAW HOLDER

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5 Claims. (Cl. 229—17)

This invention relates to improvements in beverage containing cartons of the closed peak top type embodying therein a sipper straw and is designed as an improvement over U.S. Patent No. 2,799,439, dated July 16, 1957.

The primary object of this invention is to provide a carton of the type indicated with a front top panel having a front peak forming panel thereon, a reinforcing panel on the front peak forming panel folded downwardly behind the same and the front top panel and glued thereto to strengthen the same, means for holding a sipper straw upright in the carton in the form of an apertured tear-out strip cut out of the reinforcing panel and folded upon itself and glued together to form a lateral apertured straw holding ear in the carton of double thickness for strength and rigidity and having one end attached to the reinforcing panel by perforated lines for tearing of the strip and ear loose from the reinforcing panel to pull the sipper straw out of an opening in the front top panel for use of the straw in sip the contents of the carton, the other end of the tear-out strip being a finger grip free end foldable upwardly in front of the attached end and the reinforcing panel for access thereto through the opening, means for forming an opening in said front top panel in the form of a tear-out tab attached to the front top panel by perforated lines, and means for holding the sipper straw above the ear in downwardly bent position comprising a lateral inwardly and downwardly opening hook on one edge of the reinforcing panel and whereby a sipper straw longer than the depth of the carton may be embodied therein.

Another object is to provide a carton as in the foregoing made from a one-piece blank of stiff paper board foldable into carton form and adapted to be cut and scored for such folding and scored for folding of the reinforcing panel and the tear-out strip, and cut and scored and perforated to form the tear-out strip while also being perforated and scored to form the tear-out tab, all in one operation.

Still another object is to provide a one-piece carton as in the foregoing which is comparatively inexpensive to manufacture and absolutely leakproof.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a view in rear elevation of the blank;

Figure 2 is a view in front elevation of the blank;

Figure 3 is an enlarged fragmentary view in rear elevation illustrating the manner in which the reinforcing panel is folded before gluing to the top front panel and to the front peak wall forming panel, and the manner in which the tear-out strip is folded before gluing together, and a hook on the reinforcing panel;

Figure 4 is an enlarged fragmentary view in rear elevation illustrating the reinforcing panel fully folded and

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glued to the top front panel and the tear-out strip folded and glued together;

Figure 5 is an enlarged fragmentary view in vertical cross-section taken on the line 5—5 of Figure 4;

Figure 6 is an enlarged view in perspective illustrating the carton with its peak top open for filling of the carton with a beverage and insertion of the sipper straw into the carton the view being partly broken away to show the tear-out strip and ear behind the tear-out tab;

Figure 7 is an enlarged view in vertical section taken on the line 7—7 of Figure 6;

Figure 8 is an enlarged perspective view of the carton;

Figure 9 is an enlarged perspective view of the carton with the tear-out tab partly torn out;

Figure 10 is an enlarged perspective view of the carton with the tear-out tab partly torn out and the tear-out strip and straw holding ear torn loose from the reinforcing panel to pull the sipper straw out of the carton, and

Figure 11 is an enlarged view in vertical section taken on the line 11—11 of Figure 8.

Referring to the drawings by numerals, the body 1 of the carton is formed of a blank 2 comprising, as shown, front, rear and side wall forming panels 3, 5, 7, 9 foldable along vertical score lines 10 into rectangular tube form. Two bottom flaps 11, 13 on the front and rear side wall forming panels 3, 5 and two smaller bottom flaps 15, 17 on the side wall forming panels 7, 9 are foldable upwardly on a horizontal score line 12 to form a closed bottom 14 for the body 1. The flaps 15 and 17 are folded into butt joint relation, as shown in Figure 7 and the flaps 11, 13 under the flaps 15, 17 and lapped as shown in Figures 6, 8, 9, 10, 11. The flaps 11, 13 are coated with glue as at 13', 15', on the rear side of the blank 2 and the flaps 15, 17 are similarly coated, as at 15', 17', on the front side of the blank 2 for adhesively securing said flaps together.

The blank 2 further includes two top front and rear wall forming panels 19, 21 above the panels 3, 5 for forming the peak top 22, and two end forming panels 23, 25 above the side forming panels 7, 9 for forming said top 22, and the panels 19, 21 terminate in front and rear peak forming panels 27, 29, whereas, the end forming panels 23, 25 terminate in end peak forming panels 31, 33 and the rear peak forming panel terminates in a glue coated foldover panel or flap, 35, whereas, the front peak forming panel terminates in the reinforcing panel 37. For forming the peak top 22 and thus closing the carton, the blank 2 is provided with a horizontal score line 38 on which the top front and rear wall forming panels 19, 21 are folded into upwardly converging relation, whereas, the end forming panels 23, 25 are foldable inwardly on the line 38 and on the lines 10 and on inverted V-shaped score lines 39 on said panels 23, 25 to tuck the said end forming panels in between the panels 19, 20. The blank 2 is further provided with another horizontal score line 40 on which and central vertical score lines 42, the end peak forming panels 31, 33 are folded and the front and rear peak forming panels are folded on the lines 40 and 10 to bring the same close together, whereas, the end peak forming panels 29, 31 are folded on said line 40 and on the lines 42 to tuck the same in between the front and rear peak forming panels.

A horizontal score line 44 on the blank 2 provides for folding the folded over panel 35 forwardly and downwardly over the front peak forming panel 27 and gluing it thereto by a layer of glue 35' on said panel 35, after which the peak forming panels 27, 29, 31, 33 may be stapled together, as at 45.

A glue coated vertical flap 47 on the side wall forming panel 7 and the end peak forming panel 23 and end peak

forming panel 31 is foldable along a vertical score line 49 on the blank 2 and on horizontal score lines 51 on the flap 47 into the carton to adhere to a strip of glue 53 on the rear wall forming panel 5, the rear top forming panel 21 and the rear peak forming panel 29 to hold the carton together. A vertically extending elongated tear-out tab 55 is formed in the top front wall forming panel 19 of the blank 2 and in the front peak forming panel 27 by vertical parallel perforated lines 57, and a bottom horizontal score line 59, and with a free upper end 61 extending into a fingernail slot 63 in the front peak forming panel 27, the arrangement being such that in the completely folded carton said tear-out tab inclines longitudinally upwardly and rearwardly in the front top forming panel 19 with its free end 61 upwardly bent into the fingernail opening 63 for easy access to said free end. In this connection a matching fingernail notch 65 is provided in the foldover flap 35 in the blank and which registers with the slot 63 when the foldover flap 35 is folded and secured as when the carton is completed.

The tear-out strip 67, which is of elongated rectangular form in the blank 2, is embodied in the reinforcing panel 37 of the blank 2 and cut loose therefrom along vertical lines 69 with one end joined to said panel 37 by a horizontal tear-off score line 71 and said end tearably connected to said panel 37 by a perforated vertical score lines 73, the arrangement being such that in the completed carton, said strip 67 extends behind and parallel with the tear-out tab 55. Horizontal score lines 77 are provided on the strip 67 and a pair of longitudinally spaced round holes 79 therein for folding of said strip upon itself with the openings registering, as shown in Figure 3 to form the double thickness straw holding ear 81 and the free finger grip end 83 as shown in Figures 3 and 5, and said strip 67 is provided with a coating of glue 85 for gluing the double thickness of the ear 81 together as best indicated in Figures 4 and 5.

The before mentioned hook 87 is of right angled form and extends in the blank 2 from one side edge of the reinforcing panel 37.

In forming the carton, the body 1 is formed in the manner already described. Before the peak top 22 is formed, the reinforcing panel 37 is folded downwardly on the front peak forming panel 27, part way, behind said panel 27 and the top forming panel 19 on the score line 54. The tear-out strip 67 is then folded upon itself and doubled on one of the score lines 77 and then folded upwardly on another of the score lines 77 between the reinforcing panel 37 and the top peak forming panel 27 and the top front wall forming panel 19, as shown in Figure 3, after which the ear 81 is glued together and said panel 37 glued flat to the front peak forming panel 27 and the top front forming panel 19 by a coating 36 of glue on said panel 37 and a coating 34 of glue on said panels 27, 19. Thus ear 81 is formed to extend inwardly in the carton while a free finger grip end 83 of the strip 67 is formed and confined flat behind the tear-out tab 47.

When the reinforcing panel 37 is folded down as described and glued in place the hook 87 is folded on a vertical fold line 88 on the blank by wiping engagement with one end peak forming wall panel 27 and one top end forming panel 25 to extend into the carton in downwardly opening position at a right angle to the top front wall forming panel 19. The carton may then be coated in the usual manner with paraffin, or the like, not shown. A flexible sipper straw 100 is then inserted downwardly through the ear 81 and bent laterally over said ear and terminally inserted under the hook 87. The carton is then filled with the beverage and then closed to form the peak top 27 in a manner which, it is believed, will be clear from the foregoing.

To open the carton and obtain beverage therefrom, the free end 61 of the tear-out tab 55 is grasped and said tab torn loose from the carton to the line 71, as shown in Figure 9. This provides an opening 101 in the top front wall forming panel 19 exposing the free end 83 of the tear-out strip 67. The free end 83 is then grasped to tear out the strip 67 loose from the carton and thereby pull the ear 81 and the upper portion of the sipper straw out of said opening 101 free from the hook 87, as shown in Figure 10, so that the contents of the carton may be sipped through said straw 100. The torn out strip 67 and the ear 81 may be left on the sipper straw 101 if desired for use as a handle to manipulate said straw and to lift the same completely out of the carton without the hands touching and contaminating the sipper straw.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. A one piece beverage containing carton having a peak top including upwardly converging front and rear top walls terminating in front and rear peak forming panels connected together, a reinforcing panel on said front peak forming panel folded downwardly behind the same and the front top wall and adhesively secured thereto, a tear-out strip on said reinforcing panel including an apertured ear for holding a sipper straw upright in the carton, a tear-out tab in said front wall in front of said strip for forming an opening in said front wall for exposing said strip for tearing out and pulling said strip and ear out of the opening in order to provide access to a sipper straw carried by said ear, and a downwardly opening hook on said reinforcing panel spaced from said ear and with which said straw may be terminally engaged when bent from said ear.

2. The combination of claim 1, said tear-out tab having a free finger grip end, said front peak forming panel having a fingernail receiving slot therein into which said finger grip end extends.

3. The combination of claim 1, said strip being folded upon itself and provided with holes and adhesively coated to provide an apertured ear of double thickness of the strip secured together.

4. The combination of claim 1, said tear-out strip having a terminal free finger grip tab folded on said strip in between the reinforcing panel and said front top wall behind and opposite said tear-out tab.

5. The combination of claim 1, said tear-out tab having a free finger grip end, said front peak forming panel having a fingernail receiving slot therein into which said finger grip end extends, said rear front peak forming panel having a flap thereon folded over and secured to said front peak forming panel and provided with a notch registering with said slot for access to said slot.

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