Sept. 1, 1964 A. E. HODAPP 3,146,936

CARTON AND BLANK THEREFOR

Filed July 5, 1962

Fig. 1.

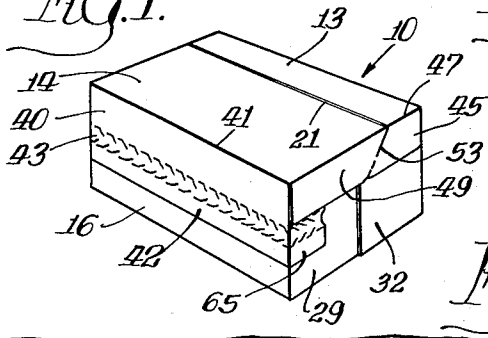


Fig. 2.

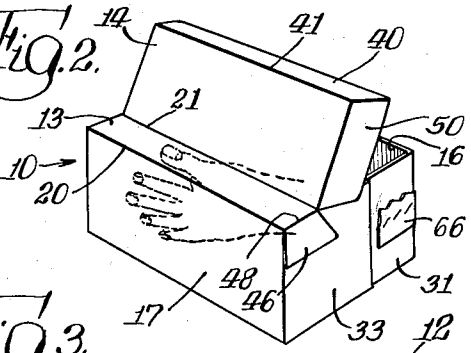


Fig. 3.

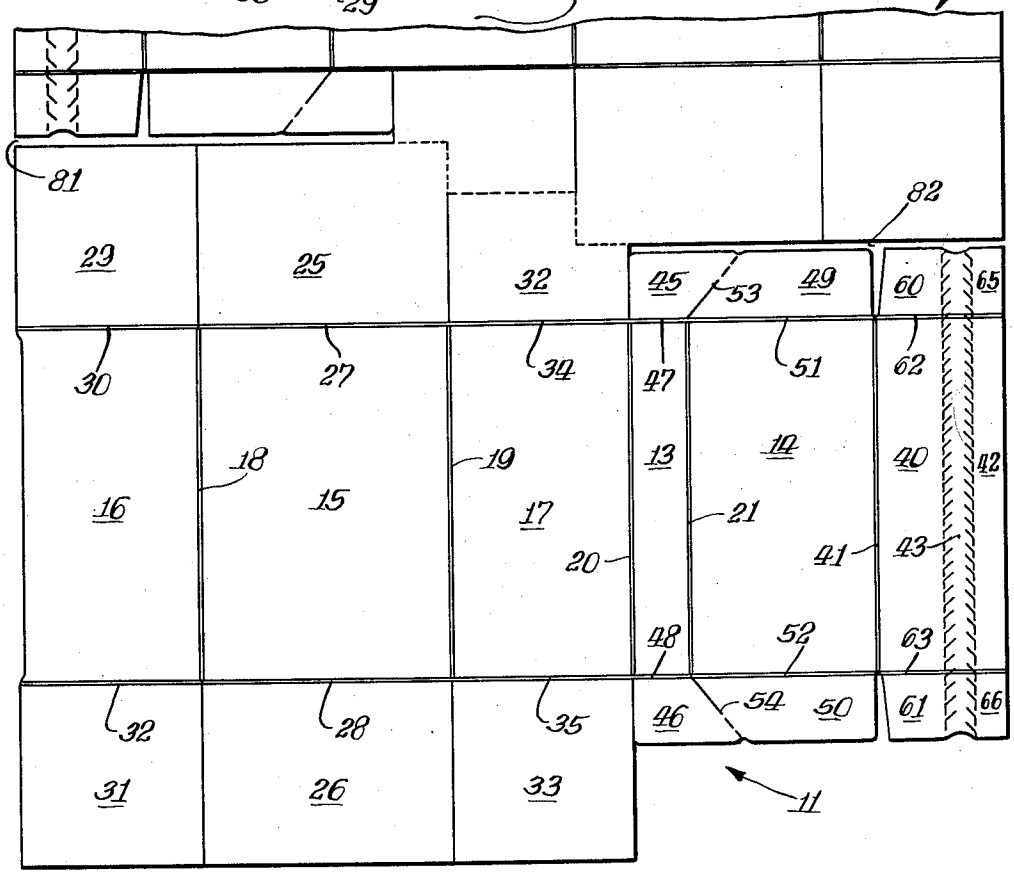


Fig. 4.

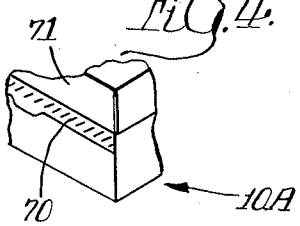
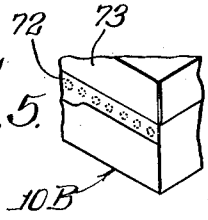


Fig. 5.



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CARTON AND BLANK THEREFOR

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This invention relates to a "food carton" and, more particularly, a carton of paperboard or the like allowing easier removal of ice cream type products and a blank therefor.

As presently known, paperboard cartons for ice cream type products either are openable at an end or may be opened by movement of a top cover panel. In the latter instance, the top cover panel is pivotally connected to the back wall of the carton so that the entire top panel opens. This renders it difficult to firmly grip the carton while a product is being removed therefrom, as by dipping, and the carton tends to twist when partly empty.

An object of this invention is to provide a new and improved carton providing easier removal of a product therefrom.

Another object of the invention is to provide a carton as defined in the preceding paragraph in which the structure providing easier removal of the product from the carton also provides added rigidity for the carton to eliminate side-to-side twisting of the carton during removal of a product.

A further object of the invention is to provide a carton blank which can be set up to form the carton having the improved results set forth above and in which adjacent carton blanks can be nested together to reduce to a minimum the amount of carton material used for a blank.

Further objects and advantages will become apparent from the following detailed description taken in connection with the accompanying drawings in which:

FIG. 1 is a perspective elevational view of a closed carton looking toward a front corner thereof;

FIG. 2 is a rear elevational view looking toward a rear corner of the carton with the carton open and a person's hand shown holding the carton;

FIG. 3 is a plan view of a carton blank on an enlarged scale and with a fragmentary part of an adjacent carton blank shown adjacent thereto;

FIG. 4 is a fragmentary perspective elevational view of a carton with an alternate form of sealing; and

FIG. 5 is a view similar to FIG. 4 showing still another form of sealing of a carton.

While this invention is susceptible of embodiment in many different forms, there is shown in the drawings and will herein be described in detail an embodiment of the invention, together with modifications thereof, with the understanding that the present disclosure is to be considered as an exemplification of the principles of the invention and is not intended to limit the invention to the embodiments illustrated. The scope of the invention will be pointed out in the appended claims.

The carton of this invention is indicated generally at **10** in FIGS. 1 and 2 and is formed from a carton blank of suitable material such as paperboard which is indicated generally at **11** in FIG. 3. An adjacent carton blank is indicated generally at **12** in FIG. 3.

This invention relates primarily to the top panel construction and, as shown in FIGS. 1 and 2, the top is composed of two panels or sections **13** and **14**. As more fully described hereinafer, the top panel **13** is secured to the remainder of the carton to form an integral part thereof while the top panel **14** may be opened as shown in FIG. 2 to permit access to the contents of the carton. The top panel **13**, which is secured to the remainder of the carton, aids in grasping the carton by a hand of a

user, as shown in FIG. 2, and imparts additional rigidity to the carton.

Reference is now made to the carton blank **11** shown in FIG. 3. The carton blank has a bottom panel **15** to which a front wall panel **16** and a rear wall panel **17** are scoringly connected by score lines **18** and **19**, respectively. The top panel **13** is scoringly connected to the rear panel **17** by a score line **20**. The top panels **13** and **14** are pivotally connected together along a score line **21**. The bottom panel **15** has at its opposite ends a pair of end closing flaps **25** and **26** connected to the panel by score lines **27** and **28**, respectively. The front panel **16** has a pair of flaps at its opposite ends with the flap **29** being secured thereto by a score line **30** and a flap **31** being secured thereto by a score line **32**.

The rear wall panel has a pair of flaps **32** and **33** secured thereto by score lines **34** and **35**, respectively. In setting up the carton, the front panel **16** and the rear panel **17** are folded into parallel relation and normal to the bottom panel **15**. The top panels **13** and **14** are folded to a position to overlie the bottom panel **15** and the carton is then held in assembled relation by carton sealing means. This carton sealing means as shown in the embodiment of FIGS. 1, 2 and 3 includes a panel **40** scoringly connected by a score line **41** to the top panel **14** and a glue strip **42** which is glued to the front panel **16** as shown in FIG. 1 and secured to the panel **40** by a tear strip **43**. Upon tearing off of the tear strip **43**, the top panel **14** and its connected panel **40** are free to move to an open position, as shown in FIG. 2.

The ends of the carton are formed by first folding in the flaps **25** and **26** that are connected to the bottom panel **15** and then folding the end wall flaps **29** and **32** into overlapped relation at one end and the end wall flaps **31** and **33** into overlapped relation at the opposite end. The front wall flaps **29** and **31** are disposed inside the rear wall flaps **32** and **33** and the flaps at each end are glued together to complete the closure of the carton.

The top panel **13** has a pair of tags **45** and **46** at opposite ends thereof scoringly connected to the panel by score lines **47** and **48**, respectively. The top panel **14** has a pair of tabs **49** and **50** at opposite ends connected to the panel by score lines **51** and **52**, respectively. The pair of tabs at one end of the top panels are severably connected along a line **53** between the tabs **45** and **49** and a line **54** between tabs **46** and **50**. The tabs **45**, **46**, **49** and **50** are folded down over the ends of the carton and the tabs **45** and **46** are glued to the end walls of the carton. The tabs **49** and **50** are glued to a pair of tabs **60** and **61** respectively which are folded along respective score lines **62** and **63** to underlie the tabs **49** and **50** and form part of the openable top. Portions of the tear strip **43** and end tabs **65** and **66** for the glue panel or strip **42** also extend around thet ends of the carton with the latter also being glued to the carton.

With the described construction, a completely sealed carton is formed and the top panel **13** not only imparts added strength to the carton to prevent side-to-side twisting, but also facilitates grasping of the carton. When the carton is to be opened, the tear strip **43** is torn off which frees the top panel **14** for opening movement and when the carton is to be closed the top along with the parts secured thereto may be folded back to the position shown in FIG. 1.

In the embodiment of FIG. 4, the carton is indicated at **10A** and is similar to the carton of the embodiment shown in FIGS. 1 to 3 except that a straight glue strip **70** is attached to a panel **71** corresponding to the panel **40** of FIG. 1.

In the embodiment of FIG. 5, a carton indicated generally at **10B** has a glue strip **72** which is spot glued in secured position and is connected to a panel **73** corre-

sponding to the panel **40** of the construction shown in FIG. 1.

As shown in FIG. 3, the blank is designed to allow a nesting of adjacent blanks. The adjacent blank indicated generally at **12** corresponding to the blank **11** is shown in nested relation and the only lost material are strips **81** and **82**.

It will be readily apparent that the dispensing area can be increased or decreased as desired by the location of the score line **21** between the top panels **13** and **14**.

I claim:

1. In combination with a carton formed from an integral blank having bottom, front and rear panels each having end tabs securable together to form the end walls of an erected carton, said carton having a top panel secured to the rear panel, there being a scoreline between the top panel and the rear panel to provide a hinge for the top panel, the improvement which comprises a pair of flaps integrally connected to the top panel at the ends thereof, said flaps being securable to the end walls to hold the top panel in closed position, each of said flaps being provided with a line of weakness extending diagonally from the free edge of the flap to said scoreline with the flaps being severable along said line of weakness as the top panel is pivoted about said hinge.

2. In combination with a carton formed from an integral blank having bottom, front and rear panels each having end tabs securable together to form the end walls of an erected carton, said carton having a top panel secured to the rear panel, there being a scoreline intermediate the front and rear edges of the top panel to provide a hinge for the front portion of said top panel, the improvement which comprises a pair of flaps integrally connected to the top panel at the ends thereof, said flaps being securable to the end walls to hold the top panel in closed position, each of said flaps being provided with a line of weakness extending diagonally from the free edge of the flap to said scoreline with the flaps being severable along said line of weakness as the front portion of the top panel is pivoted about said hinge.

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