

Nov. 12, 1929.

J. J. HESS

1,735,682

DISPLAY CARTON

Filed May 21, 1928

2 Sheets-Sheet 1

FIG. 1

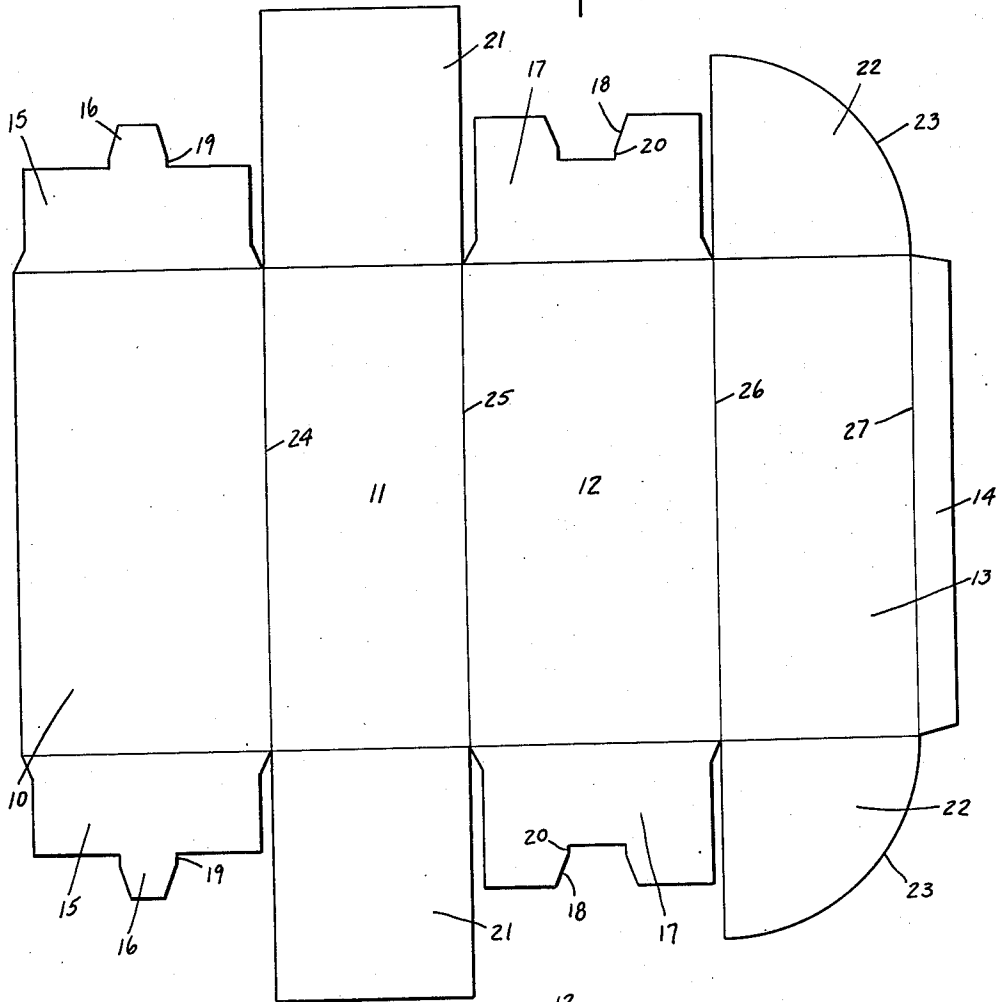
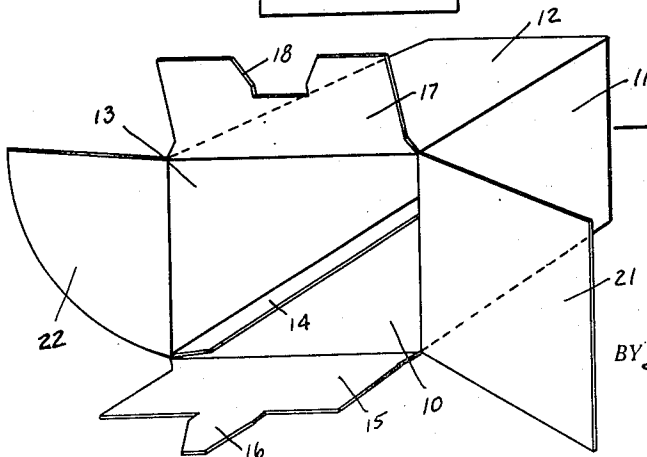


FIG. 2

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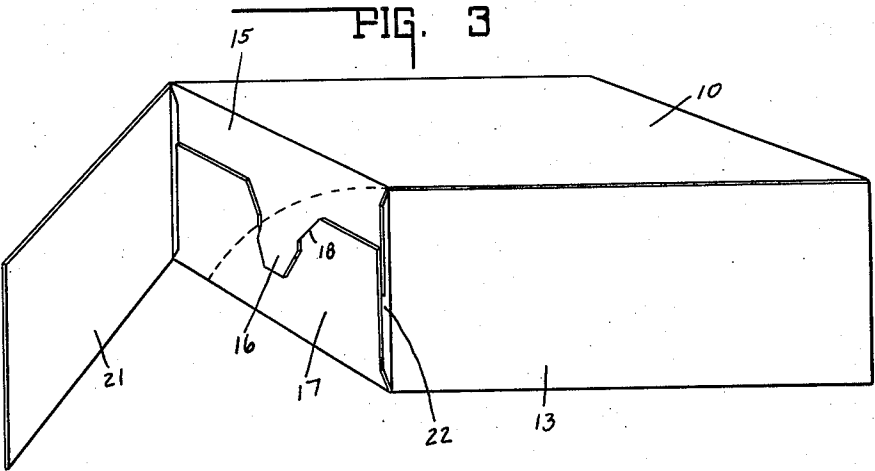
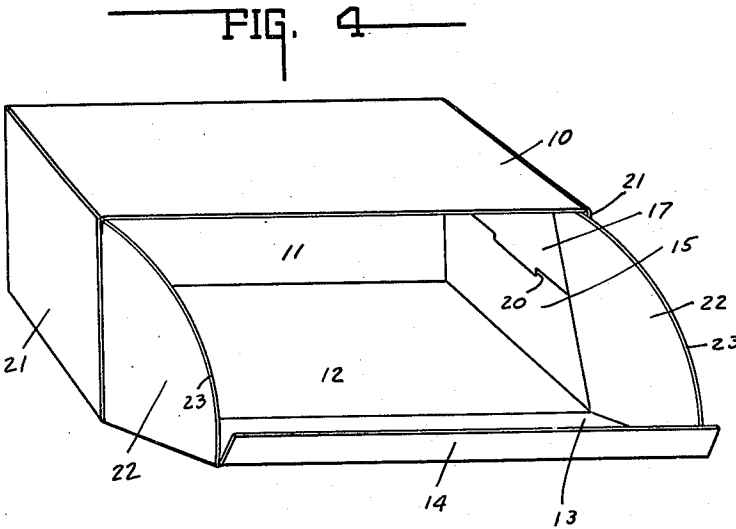
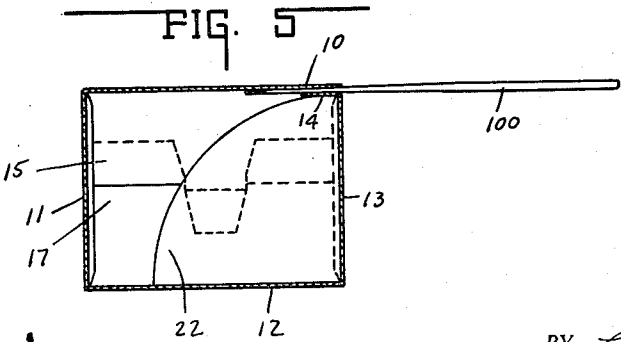
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UNITED STATES PATENT OFFICE

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DISPLAY CARTON

Application filed May 21, 1928. Serial No. 279,262.

This invention relates to a combination sealed and display carton.

The chief object of this invention is to produce from a single blank a carton which may be sealed and which when one of the seals is broken, is adapted to display the carton contents.

Another object of the invention is to form such a carton from a single blank, and a further object of the invention is to form such a carton from not only a single blank but arrange the parts thereof such that when assembled in carton formation certain of the parts maintain other of the parts in substantially transverse relationship.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims.

In the drawings Fig. 1 is a developed plan view of the blank. Fig. 2 is a perspective view of the completed carton with one end sealed and the other end opened for the ready reception of the carton contents. Fig. 3 is a perspective view of the carton in closed relation prior to the final sealing thereof. Fig. 4 is a perspective view of the carton with one of the seals broken and a portion tilted for display purposes. Fig. 5 is a transverse view of the completed carton and an instrument associated therewith for breaking the seal to obtain the display formation.

In the drawings 10 indicates a side, 11 a bottom, 12 another side oppositely positioned relative to the first mentioned side and connected by the bottom. 13 is a lid or cover and a flap extension 14 is provided for sealing purposes.

Herein a flap extends oppositely from each end of side 10 and includes a body portion 15 and a tongue 16. Likewise, extending oppositely from each end of the side 12 is a flap having the body portion 17 and the groove 18. The tongue 16 has a pair of parallel portions 19 and the groove 18 has a pair of parallel portions 20. It will be observed that the root of the tongue and the root of the groove are positioned substantially midway of the width of the bottom so that when the tongue and groove end forming flaps are turned inwardly towards each other and

transverse of the supporting sides they will interlock with each other as shown in Fig. 3 and thus maintain the sides, bottom and cover in substantially transverse or rectangular relationship to each other. The bottom 10 includes a pair of flaps 21 at each end and these constitute the sealing flap and each flap 21 has substantially the same area and outline as the cross sectional area and outline of the completed carton. Extending oppositely from each end of the cover or lid 13 is a flap 22 having an arcuate outer and side edge 23.

The blank, as shown in Fig. 1, is longitudinally scored at 24, 25, 26 and 27 forming the divisions between the side and bottom, bottom and side, side and cover and cover and extension, respectively. The blank is folded in longitudinal relationship along the scoring 25 and the flap 14 is turned inwardly along the scoring 27 and the side 10 is adhesively secured thereto. The paper board stock after being printed and cut as well as scored, has glue applied to either edge of side 10 or to the extension 14 and then the machine automatically folds the blank back upon itself along the scoring 25 and since the side 10 and flap 14 are in overlapped relation, as shown clearly in Fig. 2, but with this difference that the flap and side are connected so that the longitudinal seal of the carton lies intermediate the ends when the carton is arranged in flattened relation. This permits the cartons to be arranged in flattened relation and the weight of the cartons to hold the seal thus formed. When the carton is to be packaged the flattened blank is arranged in tubular and substantially transverse relationship, reference being had to the sides, bottom and cover and the first fold is one of the end guide flaps 22 which is positioned inwardly, then the tongue and groove flaps are turned inwardly towards each other and then the finishing or sealing flap 21 is adhesively secured thereto to complete and close one end of the carton. This is shown in Fig. 2.

The contents are then inserted in the carton. The guide flap 22 is then turned inwardly over the contents. Then the tongue and groove flaps are turned inwardly and

into interlocked relation and finally the other sealing flap is adhesively secured thereto to completely seal the carton and the contents therein.

5 To permit the purchaser to inspect the contents or for display purposes a sharp instrument, such as pocket, pin or case knife, indicated at 100 in Fig. 5, can be applied to the longitudinal seal between the side 10 and the
10 flap 14, as shown. When this separation has occurred then the carton can be opened by pressing up upon the cover or lid until the sealing flap 14 is freed from behind the adjacent side to which it had previously been
15 anchored. Continued pulling upon the same gradually will withdraw the side flaps from the carton, as shown in Fig. 4, so that the contents may be displayed or inspected. The guide flaps need not be entirely removed for
20 such purpose. If they are entirely removed they are reinserted within the carton and the cover brought down to close the same. If the carton is not to be sealed for the customer the package is not destroyed but may be wrapped
25 up after the flap has been tucked in behind the adjacent side and into its original position. If the carton is to be sealed for the customer the flap may be positioned upon the outside of the adjacent side and suitably secured thereto since it is extremely difficult to
30 apply adhesive to the flap and then apply the side to it and secure a sufficiently strong connection if the flap be positioned within the carton.

35 The aforesaid construction prevents removal of the carton contents without breaking one or more of the seals, that is, at either end and along the longitudinal side. If the longitudinal seal is broken the carton is so
40 arranged that it is adapted for display purposes and it is furthermore arranged that it substantially maintains its shape even though the longitudinal seal be broken. Thus, the usefulness of the carton is not entirely destroyed by breaking the seal. The sealed carton also insures against fraudulent substitution until one or more seals are broken. The construction set forth herein also provides a
45 hinged display lid for advertising purposes after the longitudinal seal has been broken.

The invention claimed is:

1. A display and inspection carton comprising a rigid combination capable of complete sealing and formed from a single blank
55 including a side, a bottom, an intermediate side, a top cover, all integral, a longitudinal sealing flap extension for longitudinally sealing the top cover and the side to form a complete tubular open ended box blank, an arcuate guide flap extension on each end of the
60 cover, cooperating interlocking flaps on the same end of the sides and completely closing the end of the box, and a cover flap at each end of the bottom, said guide flaps being positioned within the pairs of interlocking

flaps in interlocking relation and each cover flap being adhesively secured to both interlocking flaps for rigidly sealing each end of the carton for the purpose described.

2. A device as defined by claim 1 characterized by the cover flap being of a length and a width to substantially cover the entire end of the box.

In witness whereof, I have hereunto affixed my signature.

JOSEPH J. HESS.

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