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A. ROUS

2,837,264

TWO PIECE CARTON WITH NECK

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Fig. 1.

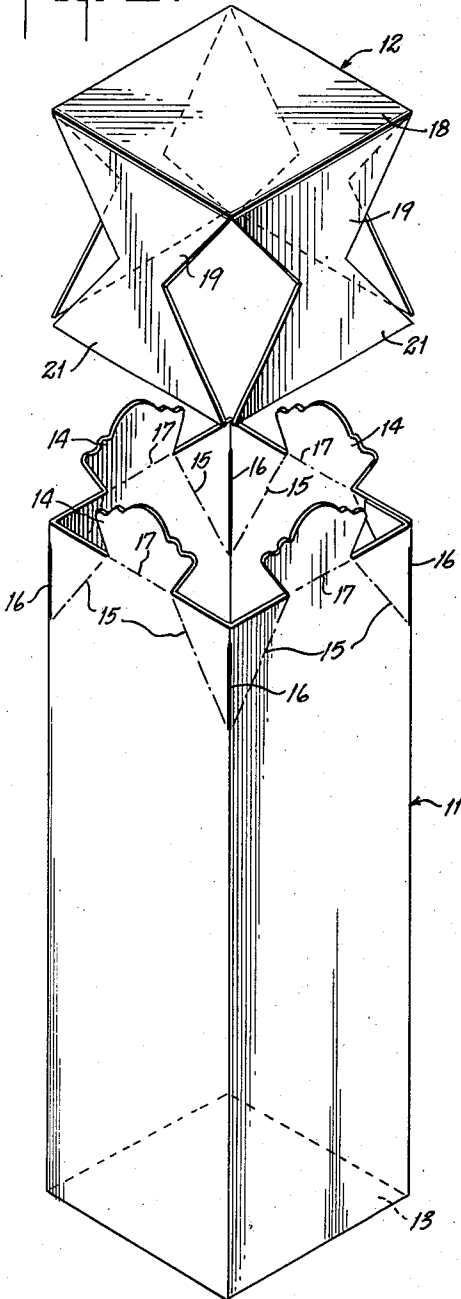


Fig. 2.

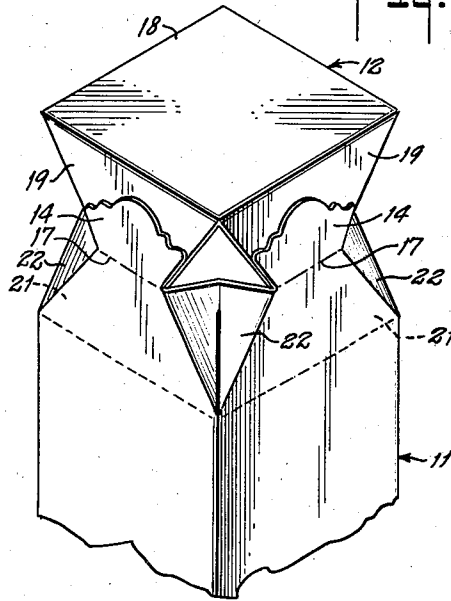


Fig. 3.

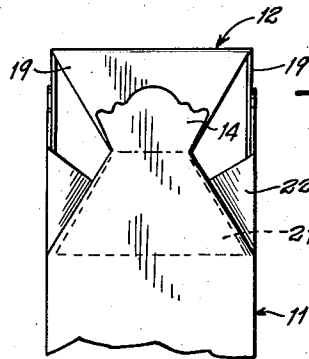
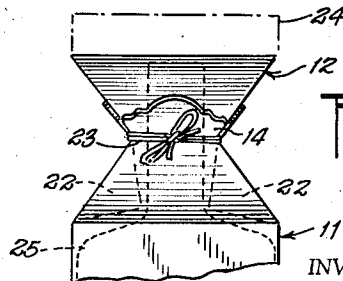


Fig. 4.



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TWO PIECE CARTON WITH NECK

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11 Claims. (Cl. 229—43)

The present invention relates to cartons having a constricted portion or neck and which may be utilized for packaging bottles or the like. More particularly the invention relates to such cartons which have a separate top adapted to be retained in place by the construction of the constricted portion of the carton.

It is an object of the present invention to provide a carton of simple construction having a constricted portion and adapted to the packaging of bottles or the like.

It is another object to provide a carton having a constricted portion and which may be tied with a decorative tie to provide an attractive and ornamental package.

It is a further object of the present invention to provide a two-piece carton adapted to be formed into a carton with a constriction or neck and wherein the act of forming the constricted section also serves to secure the top piece on the carton.

It is a still further object of the present invention to provide a carton of the foregoing type which cannot be destroyed without damaging the carton or the tie securing the constricted portion of the carton.

Other objects and advantages will be apparent from a consideration of the following description in conjunction with the appended drawings, in which

Fig. 1 is an exploded isometric view of a two piece carton according to the present invention;

Fig. 2 is a fragmentary isometric view of the carton of Fig. 1 with the top piece or cover in place and with the top portion of the carton edges folded inward to secure the cover;

Fig. 3 is a fragmentary side elevational view of the carton assembled in the same fashion as shown in Fig. 2;

Fig. 4 is a fragmentary side elevational view of the carton of Fig. 1 wherein the cover of the carton is secured by a tie and the top section of the carton is constricted by means of this tie.

Referring now to Fig. 1 a carton is shown having a carton body 11 and a carton cover 12. The carton body 11 may be provided with a bottom 13 of any desired construction. The carton may be formed of paper, cardboard, plastic or other suitable material.

Extending from the top of the carton body 11 are four tabs 14. The tabs 14 are shown to be of an ornamental crown-like shape but it will be understood that other ornamental shapes may be utilized for the tabs 14 or the tabs 14 may be constructed of plain rectangular or trapezoidal shape, or in some cases, the tabs may be omitted altogether.

Near the top of each side of the carton body there are oblique fold lines 15. The fold lines 15 facilitate the inward folding of the top portions of the edges of carton body 11 to form inwardly extending tabs 22 as indicated in Fig. 2, for example.

To further facilitate the inward folding of the top edges of the carton slots 16 may be provided in the vertical edges of the carton. The desirability of the

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slots 16 will be determined to some extent by the weight of the stock utilized to form the carton and in some cases the slots 16 may be dispensed with. The slots 16 could of course be replaced by intermittent perforations. The fold lines 16 may likewise be formed in any desired manner such as by creasing, perforating, or in any other manner marking or weakening the carton structure. Fold line 17 may also be provided at the base of the tabs 14 if desired.

The cover 12 for the carton may consist of a square top 18 having flaps 19 extending from each side thereof. The flaps 19 are provided with end portions 21 having diverging edges. The flaps 19 shown have an outline generally in the shape of an hourglass and are formed by cutting triangular notches out of each side of the flap 19. It should be understood that the flaps 19 are not limited to this particular shape although it is preferred that the end section 21 of the flaps 19 have diverging edges for reasons which will be explained below.

In Fig. 2 the cover 12 is shown in place in the carton body 11. It will be understood that the cover will normally be put in place after the contents have been placed in the carton. The upper portion 22 of the edges of the carton body 11 will normally be pressed inward after the cover 12 has been inserted in the carton body 11. From Fig. 2 it will be noted that the bottom portion 21 of the flap 19 is shaped to fit between the inwardly extending tabs 22, and due to its divergent shape the end section 21 of the flap 19 prevents removal of the cover 12 once the inwardly extending flaps 22 have been pressed into place.

Normally a tie 23 will be placed around the top of the carton body 11 as shown in Fig. 4. Tying of the tie 23 compresses the sides of the carton body 11 and of the cover 12 to form a carton having a constricted section or neck at the top portion thereof. The carton shown is particularly adapted for the packaging of bottles or the like and in Fig. 4 it will be seen that a bottle such as 25 is rigidly secured within the carton due to the inward extension of the flaps 22.

By comparing Fig. 4 to Fig. 3 showing the carton before the tie is placed thereon, it will be noted that the compression of the sides causes the top of the carton to be lowered by an amount indicated at 24 in Fig. 4. This lowering of the carton top also causes the contents to be more snugly secured within the carton and hence less likely to be damaged.

It may be noted from Fig. 4 that a two piece carton is provided which may be secured by a tie such as 23 in such a fashion that the top of the carton cannot be opened without damaging the carton itself or releasing the tie 23. The carton is therefore tamper-proof to the extent that any tampering with the contents of the carton will be evidenced by damage to the tie 23 or to the carton itself.

It should likewise be noted that a carton according to the present invention provides a package of pleasing appearance and may readily be further ornamented by the use of an ornamental tie such as a ribbon, bow or the like in the place or in addition to tie 23. The tie 23 of course need not be hand-tied on the carton but may be glued, pressed or snapped on the carton by hand or by machine if desired. A ribbon, a cord or elastic band may be used for the tie 23 and thus the term "tie" is to be construed to include any suitable means for securing the top of the carton body 11.

The particular carton shown by way of illustration is adapted especially for use in packaging bottles and thus the constricted section is placed at the top of the carton. It should be appreciated, however, that a carton having a constricted section in the central portion could also be

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constructed in accordance with the present invention or that if desired the body 11 with its inwardly forming tabs 22 could be shortened to form the top of a carton while the tabs 19 could be placed at the top of an elongated carton body thereby reversing the construction illustrated in Figs. 1 through 4.

Obviously the invention is not limited to square or four-sided cartons, but may be adapted to cartons with three, five or other numbers of sides as well.

It will be appreciated that many other modifications may be made within the scope of the invention. The scope of the invention is therefore not to be construed to be limited to the particular embodiment shown by way of illustration, but is to be limited solely by the appended claims.

What is claimed is:

1. A two piece carton adapted to be formed into a package having a constricted section comprising a first piece having at least 3 sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said side, said fold lines serving to facilitate inward folding of the portions of said first piece delineated by said fold lines, and a second piece comprising a multisided flat section and flaps extending from the sides of said section, said flaps having divergent edges near the end thereof, said second piece being adapted to be placed with said flaps extending into said first piece and retained therein when the portions of said first piece delineated by said fold lines are folded inward.

2. A carton adapted to be formed into a package having a constricted section comprising a carton body having at least three sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said side, said fold lines serving to facilitate inward folding of the portions of said carton body delineated by said fold lines, and a carton cover comprising a multi-sided top and flaps extending from the sides of said top, said flaps having divergent edges near the end thereof, whereby the carton cover may be placed with said flaps extending into said carton body and will be retained therein when the top corners of said carton body are folded inward.

3. A carton adapted to be formed into a package having a constricted section comprising a carton body having four sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said carton body formed by the junction of two of said sides, said fold lines serving to facilitate inward folding of the portions of said carton body delineated by said fold lines, and a carton cover comprising a four sided top and a flap extending from each side of said top, each said flap having divergent edges near the end thereof, whereby the carton cover may be placed with said flaps extending into said carton body and will be retained therein when the top corners of said carton body are folded inward.

4. A carton adapted to be formed into a package having a constricted section comprising a carton body having four sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said carton body formed by the junction of two of said sides, each of the corners of said carton body having a slot therein near the top edge thereof to facilitate inward folding of the portions of said carton body delineated by said fold lines, and a carton cover comprising a four sided top and a flap extending from each side of said top, each said flap having divergent edges near the end thereof, whereby the carton cover may be placed with said flaps extending into said carton body and will be retained therein when the top corners of said carton body are folded inward.

5. A carton adapted to be formed into a package hav-

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ing a constricted section comprising a carton body having four sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said carton body formed by the junction of two of said sides, each of the corners of said carton body having a slot therein near the top edge thereof to facilitate inward folding of the portions of said carton body delineated by said fold lines, said carton body further having a tab extending from the top of each side of said body, and a carton cover comprising a four sided top and a flap extending from each side of said top, each said flap having divergent edges near the end thereof, whereby the carton cover may be placed with said flaps extending into said carton body and will be retained therein when the top of the corners of said carton body are folded inward.

6. A carton forming a package having a constricted section comprising a carton body having at least three sides and a bottom, the top portion of each corner of said carton body being folded inward, a carton cover on the top of said carton body, said cover comprising a multi-sided top and a flap extending downwardly from each side of said top into said carton body, each said flap having an end with diverging edges which engage the inwardly folded portions of said carton body to retain said cover on said carton body.

7. A carton forming a package having a constricted section comprising a carton body having at least three sides and a bottom, the top portion of each corner of said carton body being folded inward, a carton cover on the top of said carton body, said cover comprising a multi-sided top and a flap extending downwardly from each side of said top into said carton body, each said flap having an end with diverging edges which engage the inwardly folded portions of said carton body to retain said cover on said carton body, and a tie placed around the top portion of said carton body to compress the sides of said body near the top of said carton.

8. A carton forming a package having a constricted section comprising a carton body having at least three sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said carton body formed by the junction of two of said sides, the top portion of each corner of said carton body being folded inward, a carton cover on the top of said carton body, said cover comprising a multi-sided top and a flap extending downwardly from each side of said top into said carton body, each said flap having an end with diverging edges which engage the inwardly folded portions of said carton body to retain said cover on said carton body.

9. A carton forming a package having a constricted section comprising a carton body having four sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said carton body formed by the junction of two of said sides, the top portion of each corner of said carton body being folded inward, a carton cover on the top of said carton body, said cover comprising a four sided top and a flap extending downwardly from each side of said top into said carton body, each said flap having an end with diverging edges which engages inwardly folded portions of said carton body to retain said cover on said carton body, and a tie placed around the top portion of said carton body to compress the sides of said body and the flaps of said top near the top of said carton.

10. A carton forming a package having a constricted section comprising a carton body having four sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said carton body formed by the junction of two of said sides, the top portion of each corner of said carton body being

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folded inward, said carton body further having a tab extending from the top of each side of said body, a carton cover on the top of said carton body, said cover comprising a four-sided top and a flap extending downwardly from each side of said top into said carton body, each said flap having an end with diverging edges which engages the inwardly folded portions of said carton body to retain said cover on said carton body, and a tie placed around the top portion of said carton body to compress the sides of said body near the top of said carton.

11. A carton forming a package having a constricted section comprising a carton body having four sides and a bottom, each said side having two oblique fold lines, each said fold line running from a point on the top of said side to a point on a respective edge of said carton

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body formed by the junction of two of said sides, each of the corners of said carton body having a slot therein near the top thereof, the top portion of each said corner being folded inward, said carton body further having a tab extending from the top of each side of said body, a carton cover on the top of said carton body, said cover comprising a four sided top and a flap extending downwardly from each side of said top into said carton body, said flaps having ends with diverging edges which engage the inwardly folded portions of said carton body to retain said cover on said carton body, and a tie placed around the top portion of said carton body to compress the sides of said body near the top of said carton.

No references cited.