Oct. 1, 1968 M. T. FARQUHAR 3,403,839

CARTON AND BLANKS FOR MAKING SAME

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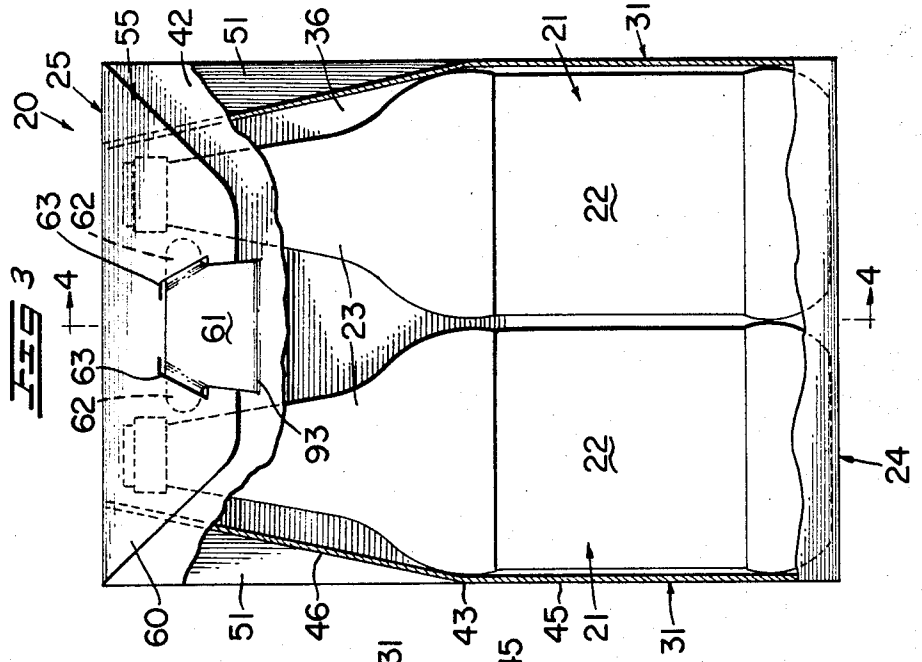


FIG 3

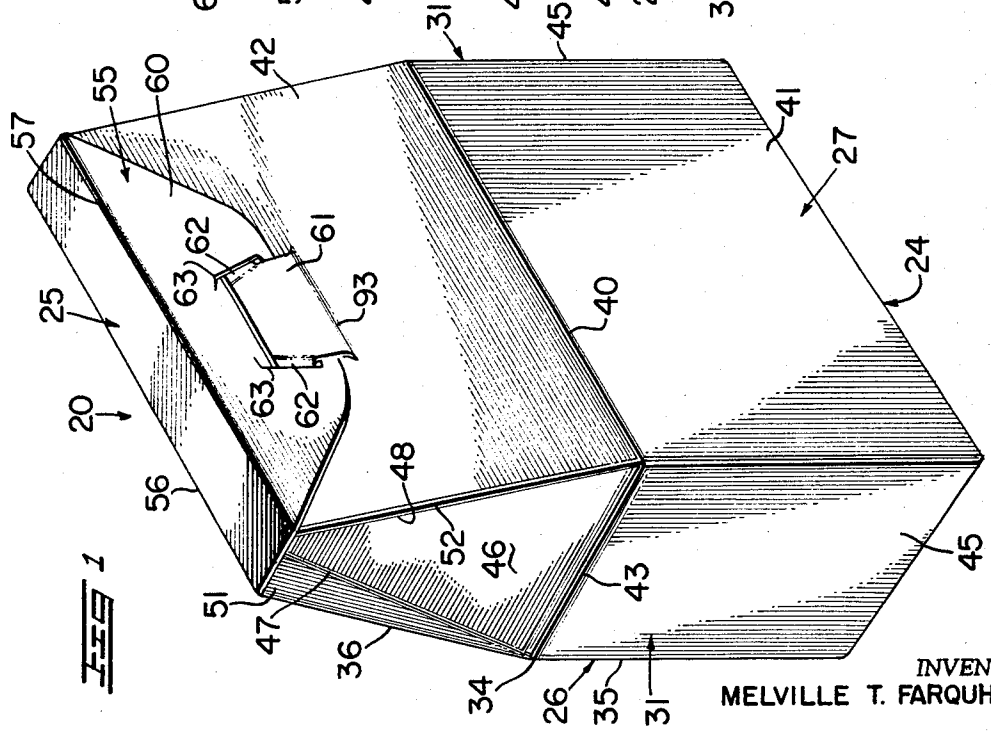


FIG 1

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CARTON AND BLANKS FOR MAKING SAME

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FIG 4

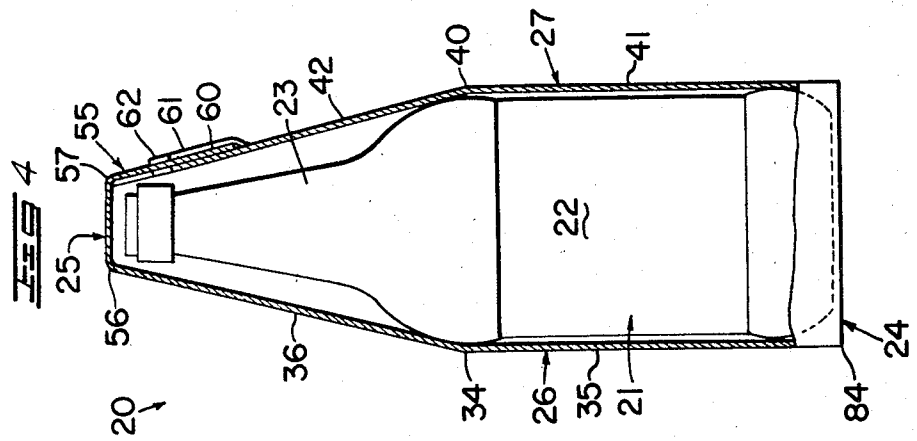
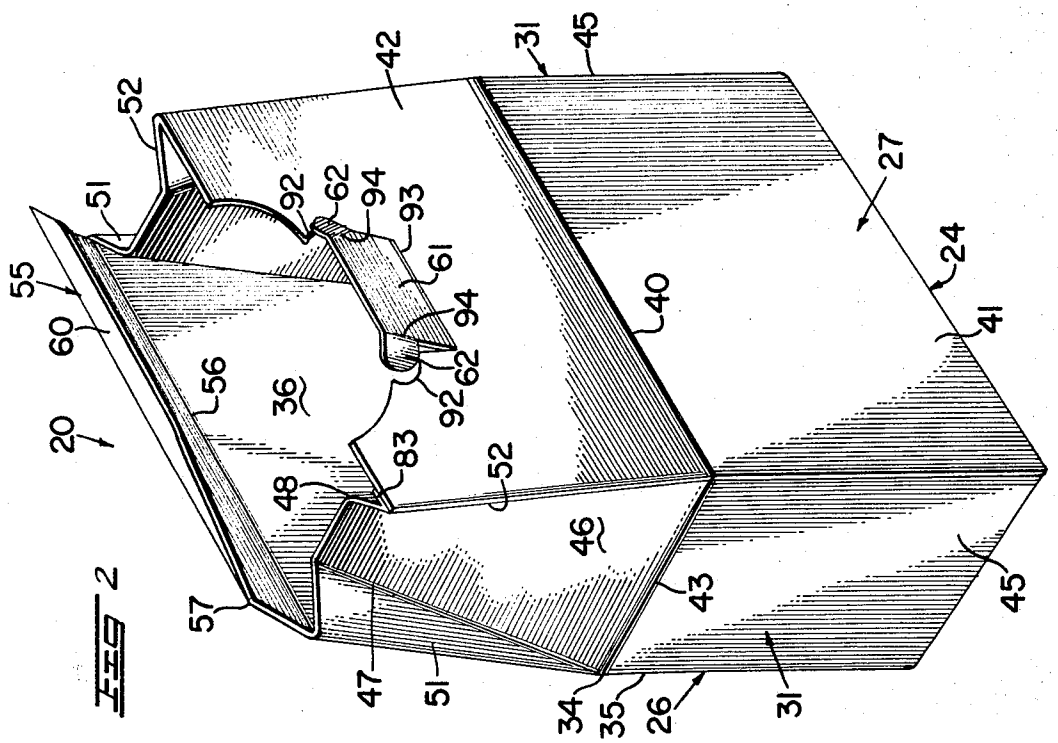


FIG 2



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CARTON AND BLANKS FOR MAKING SAME

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Fig 5

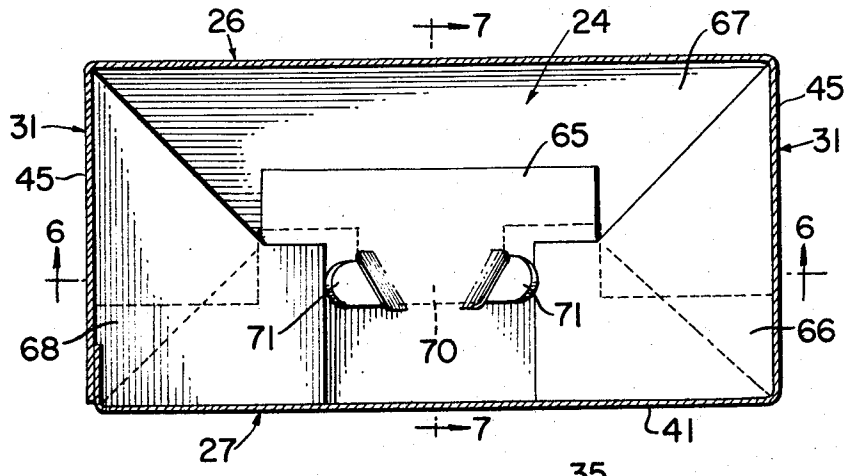
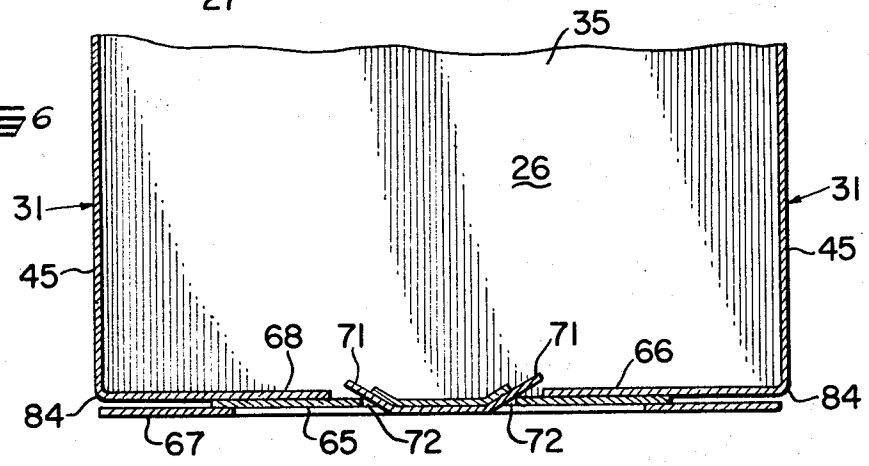


Fig 6



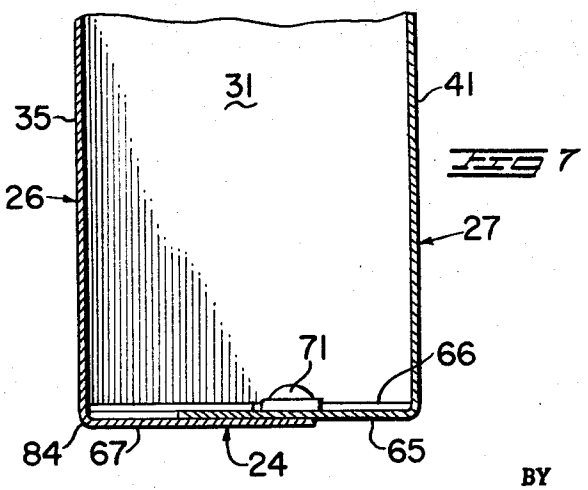


Fig 7

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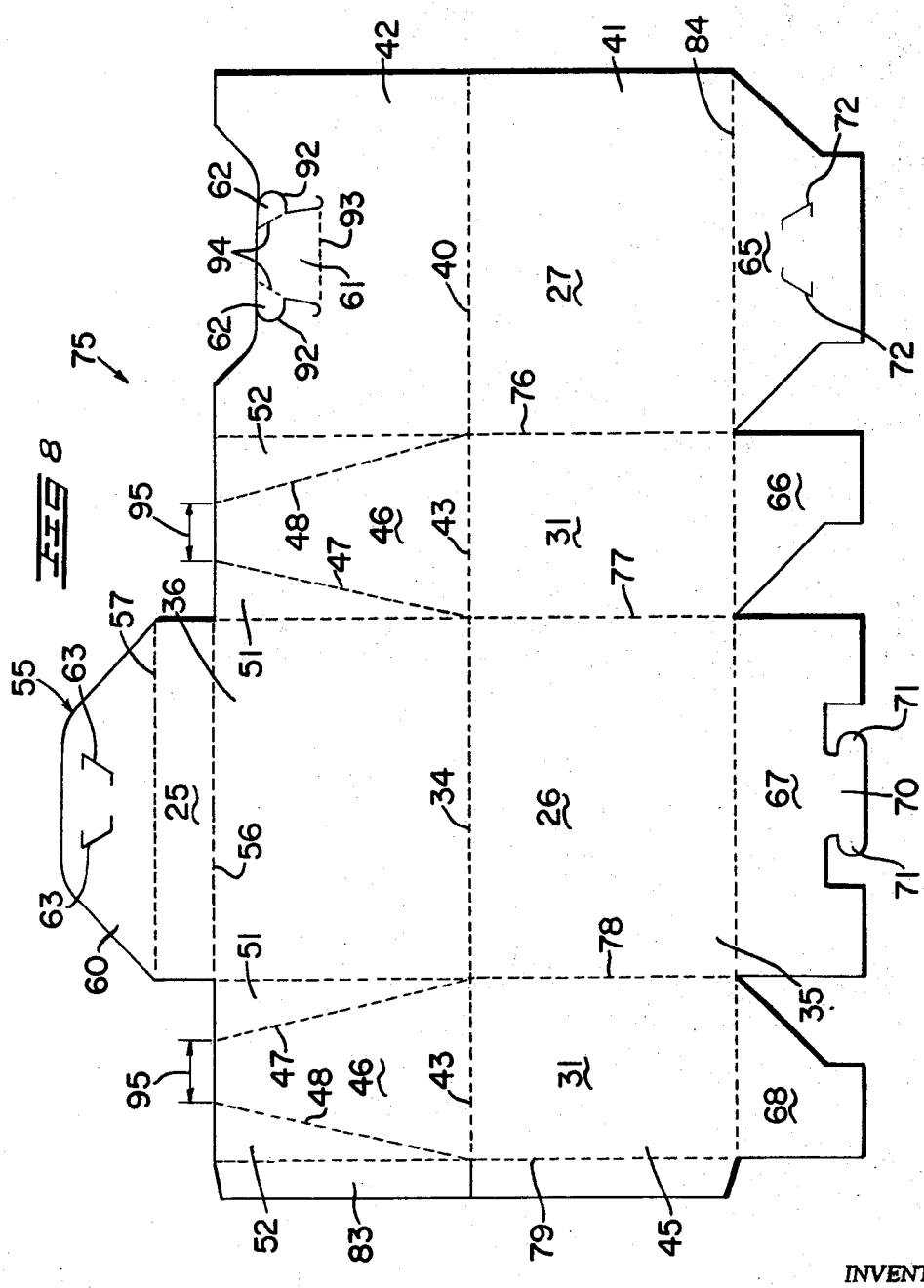


FIG 8

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CARTON AND BLANKS FOR MAKING SAME

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Fig 9

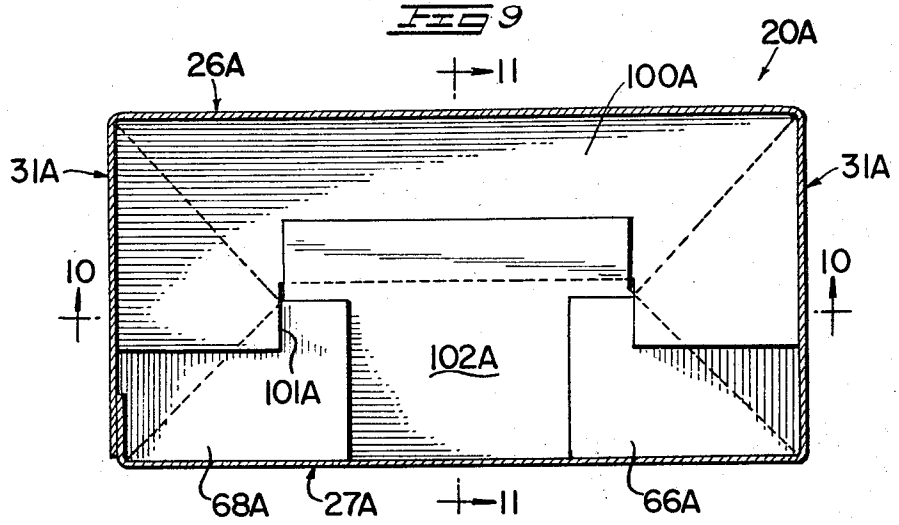
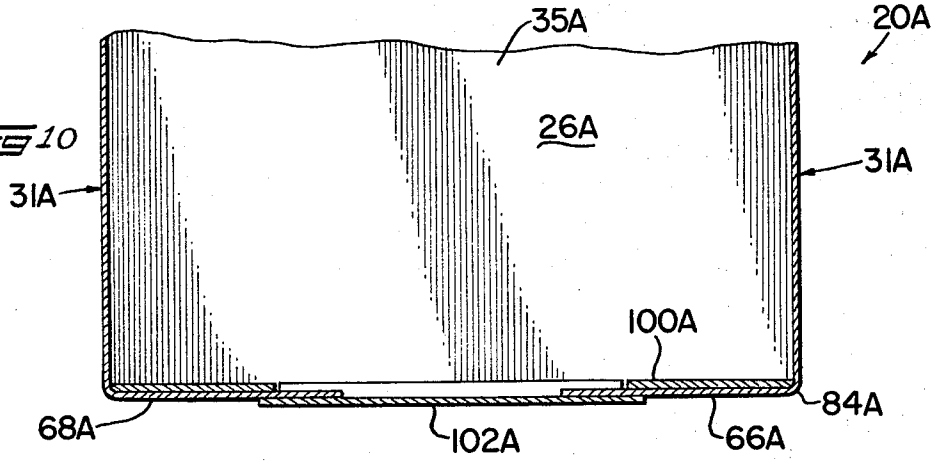


Fig 10



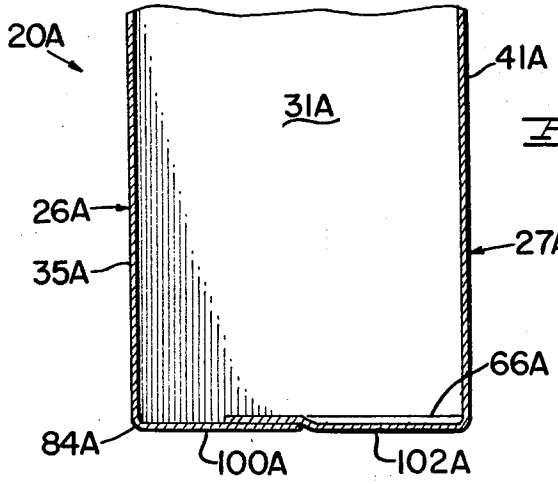


Fig 11

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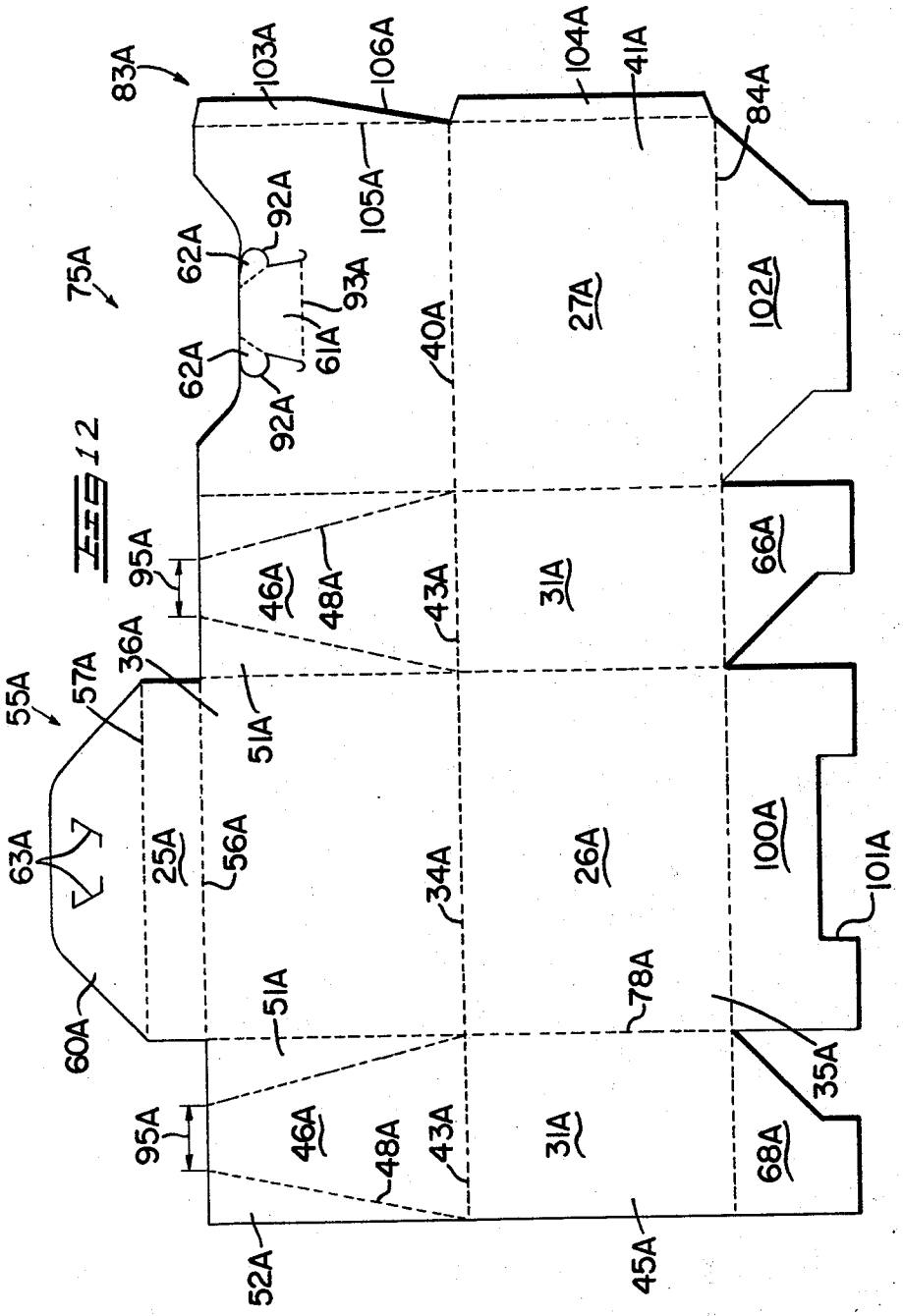
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CARTON AND BLANKS FOR MAKING SAME

Filed Nov. 8, 1966 6 Sheets-Sheet 6



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United States Patent Office 3,403,839 Patented Oct. 1, 1968

3,403,839

CARTON AND BLANKS FOR MAKING SAME

Melville T. Farquhar, Bon Air, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware

Filed Nov. 8, 1966, Ser. No. 592,875
10 Claims. (Cl. 229—40)

ABSTRACT OF THE DISCLOSURE

This disclosure relates to a carton for containing a plurality of containers, each having upwardly tapering necks, and to a blank for making such a carton, wherein the carton has upwardly converging vertical wall means which conform generally to the tapering configuration of the upper portion of such containers.

This invention relates to containers and more particularly to an improved carton for container means having upwardly tapering outside surface means and to an improved blank for making such carton, or the like.

Many products such as liqueurs, salad dressings, beverages, and the like, are sold in containers such as bottles each having a comparatively long slender neck which tapers or converges gradually upwardly to the top of such bottle. It has been found that sales are considerably increased upon offering such products for sale in inexpensively produced cartons having adequate strength yet having a pleasing and decorative outer configuration corresponding substantially to the configuration of the bottles to be contained therewithin.

Accordingly, it is a feature of this invention to provide an improved inexpensively produced carton having upwardly converging outside wall means corresponding to the outer configuration of container means to be packaged therewithin.

Another feature of this invention is to provide such a carton which has high structural strength, requires less material to fabricate than a conventional carton which has the general shape of a parallelpiped, and which is comparatively less expensive to produce than such conventional carton.

Another feature of this invention is to provide an improved carton of the character mentioned which can be made using standard machinery.

Another feature of this invention is to provide an improved carton of the character mentioned wherein the upwardly converging outside wall means of such carton enable it to be easily carried under one's arm, for example.

Therefore, it is an object of this invention to provide an improved carton having one or more of the novel features of this invention as set forth above or hereinafter shown or described.

Another object of this invention is to provide an improved carton blank for making such a carton or the like.

Other objects, uses, and advantages of this invention are apparent from a reading of this description which proceeds with reference to the accompanying drawings forming a part thereof and wherein:

FIGURE 1 illustrates one exemplary embodiment of the carton of this invention in perspective view and with such carton shown closed.

FIGURE 2 is a perspective view illustrating the carton of FIGURE 1 with its top wall or top opened.

FIGURE 3 is a front view showing the carton of FIGURE 1 with a pair of bottles inserted therewithin and with a portion of such carton broken away to illustrate the arrangement of the bottles within such carton.

FIGURE 4 is a sectional view on the line **4—4** of FIGURE 3.

FIGURE 5 is a view looking perpendicular to the inside surface of the bottom wall of the carton of FIGURE 1.

FIGURE 6 is a sectional view on the line **6—6** of FIGURE 5.

FIGURE 7 is a sectional view on the line **7—7** of FIGURE 5.

FIGURE 8 is a plan view of the blank used to make the carton of FIGURE 1.

FIGURE 9 is a view similar to FIGURE 5 showing inside surface means of the bottom wall of another exemplary embodiment of the carton of this invention.

FIGURE 10 is a sectional view on the line **10—10** of FIGURE 9.

FIGURE 11 is a sectional view on the line **11—11** of FIGURE 9.

FIGURE 12 is a plan view of a blank used to make a carton which is similar to the carton illustrated in FIGURE 1 of the drawings and which has its bottom wall means modified as illustrated in detail in FIGURES 9–11.

While the various features of this invention are hereinafter illustrated and described as being particularly adaptable for providing an improved carton for container means such as bottles containing beer and each having comparatively long upwardly converging necks terminating in a closure cap therefor, it is to be understood that the various features of this invention can be utilized singly or in any combination thereof to provide an improved carton for other products and uses, as desired.

Therefore, this invention is not to be limited to only the embodiments illustrated in the drawings, because the drawings are merely utilized to illustrate one of the wide variety of uses of this invention.

In the exemplary embodiment of this invention illustrated in FIGURES 1–8 of the drawings, an improved container means such as a carton **20** is illustrated. Carton **20** is particularly adapted for containing a plurality of two bottles, such as bottles of beer, and each designated by the numeral **21**. Each bottle **21** has a cylindrical bottom portion **22** of circular outline and an upwardly converging long slender neck **23** which is substantially frusto-conical in outline. Carton **20** has an outer configuration along its upper end portion which conforms substantially to the upwardly converging configuration of neck **23** thereby giving carton **20** an upwardly converging configuration which is decorative, has high structural strength, requires less material to manufacture, and is comparatively easy to carry.

As seen particularly in FIGURE 1 of the drawings, each carton **20** has a bottom wall **24**, a top wall **25**, a pair of parallel spaced apart side wall means or side walls designated by the numerals **26** and **27**, and a pair of substantially identical spaced apart end wall means or end walls each designated by the numeral **31** for ease of description.

Bottom wall **24** in this example of the invention is of substantially rectangular peripheral outline having side walls **26** and **27** fastened thereto at its opposite side edges and end walls **31** fastened thereto at its opposite end edges. Bottom wall **24** is formed using extension flap means extending from vertical walls **26**, **27**, and **31** and such extension flap means are folded into a common plane to define bottom wall **24** as will be subsequently described.

Side wall **26** has horizontally extending score means or a score line **34** provided therein approximately midway along its vertical height. Score line **34** defines a substan-

tially vertical portion 35 of side wall 26 extending therebelow and serves as a hinge line about which an upper portion 36 of such side wall is moved so that it converges upwardly and inwardly toward side wall 27.

In a similar manner side wall 27 has a score line 40 extending horizontally thereacross at a position corresponding to the position of score line 34. Score line 40 defines a substantially vertical portion 41 of side wall 27 and an upper portion 42 which is adapted to be hinged inwardly about score line 40 so that it converges upwardly and inwardly toward side wall 26.

Portions 35 and 41 of side walls 26 and 27 respectively are substantially rectangular in peripheral outline and in this example have equal areas. Similarly portions 36 and 42 are also of rectangular outline and have equal areas.

Each end wall means or end wall 31 has score means such as a horizontally extending score line 43 extending thereacross so as to adjoin the terminal ends of score lines 34 and 40 in side walls 26 and 27 respectively at each end of carton 20. In a similar manner as described in connection with score lines 34 and 40 in side walls 26 and 27 respectively, score line 43 defines a lower vertically extending portion 45 of end wall 31 which is of substantially rectangular outline. A substantially trapezoidal portion of end wall 31 designated by the numeral 46 extends above score line 43.

Trapezoidal portion 46 of each end wall 31 has inclined side edge means shown as a pair of inclined side edge means or side edges designated by the numerals 47 and 48 and which are of equal length. Thus, the trapezoid defined by portion 46 is an isoceles trapezoid which helps give carton 20 a pleasing appearance. Side edges 47 and 48, in effect, limit the amount of inward movement of the upper portions of side walls 26 and 27 and thus establish their outer configuration.

As seen particularly in FIGURES 1 and 2, side edges 47 of end walls 31 engage upper portion 36 of side wall 26 to limit its inward movement. Similarly, side edges 48 engage upper portion 42 of side wall 27 to limit its inward movement.

In this example of the invention side edge means 47 and 48 are provided only along the upper end portion of each wall 31, with carton 20 in the closed position shown in FIGURE 1; however, it will be appreciated that side edge means may be provided along the full height of its associated end wall or along any portion thereof so as to control the outer contour of an adjoining side wall means in any desired manner.

As seen particularly in FIGURES 2 and 8 of the drawings, each end wall 31 is formed initially as an integral unit of subtsantially rectangular outline which enables easy insertion of comparatively large lower end portions 22 of bottles 21 within carton 20. Once bottles 21 have been placed in position the upper end portions 36 and 42 of side walls 26 and 27 respectively are folded inwardly about their respective score lines 34 and 40 to define carton 20 having the gradually converging upper end portion.

Each initially substantially rectangular end wall 31 has a pair of symmetrically arranged inverted right triangular portions designated by the numerals 51 and 52 defining its opposite top corner portions. Side edge means 47 and 48 define the hypotenuses of right triangular portions 51 and 52 respectively. Upon closing carton 20 it is seen that right triangular portions 51 and 52 are adapted to lie substantially coplanar with adjoining side walls 26 and 27 respectively.

The integral right triangular portions 51 and 52 hold upper portion 46 of each end wall 31 so that it is inclined toward an opposite end wall 31. Carton 20 thus has two pairs of substantially vertical walls having upper end portions which converge upwardly and define an upwardly tapered streamlined configuration which conforms generally to the tapered configuration of the slender frusto-conical neck portions 23 of bottles 21 carried within carton 20.

Each end wall 31 of carton 20 is preferably fastened along the full height of its side edges to side walls 26 and 27 as illustrated in the drawings. Of course, it will be appreciated that in some applications of this invention it may be desirable not to fasten, for example, the upper end portion of each end wall 31 which is similar to portion 46 in the manner illustrated and merely push such upper end portion inwardly against an associated bottle carried within the carton while using side edge means thereof to limit inward movement of adjoining side walls.

Extension flap means is provided extending from one of the side walls of carton 20 and in this example of the invention such extension flap means is designated by the numeral 55 and extends from side wall 26. Extension flap 55 defines top wall 25 and closure flap means for carton 20.

Extension flap 55 is foldably connected to the top edge of upper end portion 36 of side wall 26 along a score line designated by the numeral 56. Extension flap 55 also has a second score means or a second score line 57 provided therein and arranged parallel to score line 56. Score line 57 defines the outer edge of top wall 25 and a closure flap 60 extends beyond score line 57 and is adapted to be folded against the outside surface of upper end portion 42 of side wall 27.

Cooperating fastening means is provided in closure flap 60 and in upper portion 42 of side wall 27 to enable repeated easy fastening and unfastening of the closure flap 60 for carton 20. In this example of the invention such fastening means comprises a substantially rectangular flap portion 61 extending from side wall 27 and having a pair of tabs extending from its opposite side edges and each designated by the numeral 62. Closure flap 60 has a pair of cooperating spaced apart substantially U-shaped cuts each designated by the numeral 63 provided therein and each being adapted to receive an associated tab 62.

As will be seen in FIGURES 1–3 of the drawings, closure flap 60 is first moved downwardly into position against the top outer surface means of side wall 27 while holding flap portion 61 outwardly. Each tab 62 is then inserted in an associated U-shaped cut 63 to thereby fasten closure flap 60 firmly in position. The action of tabs 62 together with coopearting U-shaped cuts 63 provide a locking closure at the top of carton 20 which is readily fastened and unfastened.

The dimensional arrangement and action of top wall 25 and closure flap 60 is such that upper portions 36 and 42 of side walls 26 and 27 respectively are held urged toward each other in an upwardly converging manner so as to define the upwardly converging outer configuration of carton 20 shown in FIGURE 1 of the drawings. Furthermore, triangular portions 51 and 52 of each end wall 31 support trapezoidal portion 46 along its opposite sides while defining the amount of converging by an associated end wall.

As seen particularly in FIGURES 5–7 of the drawings carton 20 has a bottom wall which is defined by a plurality of four flaps 65, 66, 67, and 68 extending respectively from side wall 27, one end wall 31, side wall 26, and the opposite end wall 31. Flaps 65–68 are adapted to be folded into a common plane to define bottom wall 24.

A pair of locking tabs each designated by the numeral 71 is provided in a locking flap portion 70 of extension flap 67 and such pair of tabs 71 is adapted to be inserted in a pair of cooperating substantially U-shaped angled cuts 72 provided in extension flap 65. Locking tabs 71 may be inserted in position in any suitable manner and are preferably inserted so that flap 67 defines the exterior surface of bottom wall 24 and tabs 71 extend through their associated cuts 72 to the interior of carton 20. Tabs 71 may be inserted in position by hand or may be suitably inserted in position using machiery having a rod assembly,

or the like, which engages each tab and pushes it into locking engagement.

Thus, it is seen that carton **20** is formed having a plurality of exterior vertical walls in which the upper end portions of such walls are adapted to converge upwardly toward each other to define a carton having a pleasing appearance and high structural strength. The converging upper end portion of the vertical exterior walls of carton **20** enables such carton to be readily used to contain bottles having slender tapering necks, such as bottles of beer, or the like.

Carton **20** can be made in any suitable manner and made from any suitable foldable material. It is preferably formed from the carton blank **75** illustrated in FIGURE 8 of the drawings. Blank **75** is made of carboard, or the like, having a side such as the exposed surface thereof laminated with metallic foil, such as aluminum-containing metallic foil, or the like, suitably colored, embossed, imprinted, or remaining plan as desired.

Blank **75** is suitably cut and scored and includes a series of parallel rectilinear score or fold lines **76**, **77**, **78**, and **79** defining the lateral extent in one direction of wall **27** extending beyond score line **76**, one end wall **31** between score lines **76** and **77**, side wall **26** between score lines **77** and **78**, the opposite end wall **31** between score lines **78** and **79**, and a closure flap **83** extending beyond score line **79**. Flap **83** is suitably fastened as by glue, or the like, to side wall **27** to define an open ended tubular structure prior to fastening bottom wall **24** in position.

The main central body of blank **75** is substantially rectangular in peripheral outline and is defined along one edge by a score line **84** extending the full length of such blank perpendicular to one terminal end of score lines **76–79**. The outer edge of such main central body extends in parallel spaced apart relation from score line **84** and has a rectilinear score line **56** defining a portion thereof. Score line **56** is arranged perpendicular to the opposite terminal ends of score lines **77** and **78** and also extends parallel to score line **84**.

In this example of the invention, blank **75** has centrally arranged rectilinear score means defined by aligned score lines **34**, **40**, and **43** in side walls **26**, **27**, and both end walls **31** respectively. Also score lines **47** and **48** are arranged from the top edge of their associated end wall **31** so as to intersect the opposite ends of an associated score line **43** and define the hypotenuses of the previously mentioned triangular portions **51** and **52** respectively. Score lines **47** and **48** also contact side edges comprising their associated end walls **31**.

As previously mentioned, bottom wall **24** is is defined in blank **75** by a plurality of extension flaps **65**, **66**, **67**, and **68** extending respectively from side wall **27**, one end wall **31**, side wall **26**, and the opposite end wall **31**. Flaps **66** and **68**, in effect, define supporting end flaps against which flaps **65** is folded followed in folding sequence by flap **67** upon forming carton **20** from blank **75**.

Flap **67** is fastened in position by suitable fastening means as previously described and comprising locking flap **70** having a pair of locking tabs **71** extending from opposite side edges thereof. Each tab **71** is adapted to be received and held in a substantially U-shaped cut **72** provided in flap **65**. U-shaped cuts **72** are provided in flap **65** in spaced apart relation and are arranged therein to provide optimum holding.

Blank **75** is folded to define carton **20** by first folding along score lines **76–79** and fastening closure flap **83** in position against side wall **27** using glue or other suitable means. Extension flaps **65–68** are then suitably folded in position, first folding flaps **66** and **68** in position followed in folding sequence by flap **65** and finally by flap **67**. Locking tabs **71** are then inserted in their associated locking U-shaped cuts **72** provided in flap **65**.

The initial configuration of the resulting carton is in the general shape of the parallelpiped with an open top. However, the particular configuration and the scores and cuts provided in blank **75** enable carton **20** in its final configuration to have two pairs of upwardly converging walls.

Sidewall **26** in this example of the invention is shown as a rear wall with extension flap **55** extending beyond score line **56** which defines the top edge of wall **26** as previously mentioned. Score line **57** is provided in flap **55** parallel to score line **56** and the distance between score lines **56** and **57** defines the width of top wall **25**.

Closure flap **60** extends beyond score line **57** and in this example of the invention is approximately trapezoidal in peripheral outline and has substantially U-shaped cuts **63** provided therein. The base portions of U-shaped cuts **63** are arranged at an angle to each other to provide an improved closing action upon being engaged by associated locking tabs.

Side wall **27** has a pair of symmertically arranged cut means or cuts **92** provided in its upper end portion **42** and such cuts are connected at their lower end by a score line **93**. Cuts **92** and score line **93** cooperate to define the previously mentioned locking flap **61** which is substantially rectangular in outline and has a pair of outwardly projecting locking tabs or ears **62**. Each locking tab **62** has a short score line designated by the numeral **94** defining its base portion which enables easier fastening and unfastening of such tab.

The width between score lines **56** and **57** corresponds to the width between the top end of score lines **47** and **48** as shown at **95**. Thus, it is seen that upon folding side walls **26** and **27** so that they converge toward the top of carton **20** the width shown at **95** is held enabling top wall **25** to provide a well defined top surface for carton **20**.

Although it is not absolutely necessary that score lines **34**, **40**, and **43** be provided in the central portion of blank **75** it will be appreciated that by the provision of such score lines it is an easier matter to fold the upper end portions of side walls **26** and **27** and end walls **31** in a converging manner toward the top of the assembled carton **20**. Also, score lines **47** and **48** enable triangular portions **51** and **52** respectively to be folded substantially coplanar with their associated adjoining side walls **26** and **27** respectively causing the upper portions **46** of end walls **31** to also converge upwardly toward each other.

Blank **75** used to form carton **20** is of simple and inexpensive construction, utilizes a minimum of material, such as paperboard, or the like, and can be cut and scored on standard machinery with minor modification.

Another exemplary embodiment of this invention is illustrated in FIGURES 9–12 of the drawings. The carton and blank of FIGURES 9–12 is basically similar to carton **20** and associated blank **75**; therefore, the overall carton and blank will each also be designated generally by the same numeral as in the previous embodiment followed by the letter designation "A." Component parts of carton **20A** and its blank **75A** which are identical to corresponding parts fo carton **20** and its blank **75** which are illustrated in FIGURES 9–12 of the drawings will be designated by the same numeral as previously also followed by the letter designation "A" and not described in detail. Only those component parts of carton **20A** and blank **75A** that are different from corresponding parts of carton **20** and blank **75** will be designated by a new numeral and also followed by the letter designation "A" and described in detail. Carton **20A** differs from carton **20** only in the construction of its bottom wall means and closure flap means used to initially form an open ended tubular structure upon assembling blank **75A**.

Carton **20A** has an extension flap **100A** extending beyond that portion of score line **84A** defining the lower edge of its side wall **26A**. Flap **100A** has a substantially rectangular cutout **101A** cut from its central outer portion.

Side wall **27A** of carton **20A** has an extension flap **102A** extending from that portion of score line **84A** defining its lower edge. Flap **102A** is practically identical to extension flap **65** extending from side wall **27** of carton **20**

with the exception that extension flap 102A does not have U-shaped cut means, or the like, for receiving locking tabs, or the like.

To assemble bottom wall 24A of carton 20A, flaps 66A and 68A are preferably first folded in position followed in folding sequence by flap 100A and then by the terminal end portion of flap 102A being inserted within cutout means provided by cutout 101A. Flap 102A thus defines the major portion of the outside surface of bottom wall 24 and does not require separate fastening means.

This sequence of folding the various flaps comprising bottom wall 24A in position is the preferred sequence; however, it will be appreciated that the arrangement of flaps is such that bottom wall 24A may be folded in practically any desired sequence and fastened as by glue, or the like, to still provide a bottom wall of adequate strength.

Another difference which exists in carton 20A is mainly in the manner in which closure flap 83A corresponding to closure flap 83 is provided in blank 75A. Closure flap 83A is formed essentially in two portions designated by the numeral 103A and 104A and extending beyond a score line designated by the numeral 105A and provided to define one edge of side wall 27A. Closure flap portion 103A has an angled edge portion 106A as shown.

The angled edge portion 106A corresponds in angle of inclination to score line 48A. Thus, upon folding blank 75A to form carton 20A, portion 103A is fastened in the plane of one end wall 31A and angled portion 106A enables the upper portion of such one end wall to be folded inwardly toward the opposite end wall 31A.

While two constructions have been shown for forming the bottom wall of the improved carton of this invention in which neither construction requires special fastening means, such as glue, for example, it will be appreciated that such bottom wall may be formed in any suitable manner using practically any configuration and combination of extension flap means. The desired objective is to have a bottom wall which can be easily and simply fastened, if desired, and without requiring complicated equipment.

Blanks 75 and 75A may be easily cut and scored using conventional cutting and scoring equipment and without requiring special tooling or special procedures and the particular configurations of such blanks lend themselves to economical production. It will also be appreciated that the particular configuration of each carton 20 and 20A is such that a high strength carton is provided which uses a minimum amount of blank material and provides a decorative appearance.

Terms such as "bottom," "top," "end wall," "side wall," "bottom wall," "top wall," "upwardly," "downwardly," and the like, have been utilized in this disclosure of the invention merely to define the various positions of the various walls illustrated in the drawings and such terms should not be considered as limiting the scope of this invention in any way.

Thus, it is seen that an improved carton has been provided which is of high strength, uses a minimum amount of structural material, and provides upwardly converging wall means adapted to conform to container means having long upwardly tapering neck means, or the like, to be carried therewithin.

Further, this invention provides an improved carton blank for forming such carton, or the like.

While the form of the invention now preferred has been disclosed as required by statute, other forms may be used, all coming within the scope of the claimed subject matter which follows.

What is claimed is:

1. A carton having, a bottom wall, a pair of spaced apart side wall means fastened to opposite side edges of said bottom wall, a pair of spaced apart end wall means fastened to said bottom wall and each having inclined upwardly converging side edge means with each side edge means being adapted to adjoin an associated side wall means to control the configuration thereof and define said carton having a pair of upwardly converging side wall means, holding means for holding said end wall means to converge upwardly, said holding means comprising a pair of identical wall portions for each end wall means and each being foldably fastened to an associated converging side edge means and adapted to lie substantially coplanar with an adjoining associated side wall means, and extension flap means extending from one of said side wall means and being folded over said wall means to define top wall means for said carton, whereby said carton has two pairs of upwardly converging wall means.

2. A carton as set forth in claim 1 in which said extension flap means includes closure flap means defining its terminal end portion which is adapted to be fastened to the other said side wall means to provide a closure for said carton.

3. A carton as set forth in claim 2 also including cooperating fastening means in said closure flap means and said other side wall means enabling repeated easy fastening and unfastening of said closure flap means.

4. A carton having, a bottom wall, a pair of spaced apart side wall means fastened to opposite side edges of said bottom wall, a pair of spaced apart end wall means fastened to said bottom wall and each end wall means having inclined upwardly converging side edge means symmetrically provided therein and defining an upper portion thereof with each side edge means being adapted to adjoin an associated side wall means to control the configuration thereof and define said carton having a pair of upwardly converging side wall means defining its upper portion, each end wall means having a substantially rectangular outline prior to closing said carton, and having a pair of identical symmetrically arranged inverted right triangular portions defining its opposite top corner portions, and extension flap means extending from one of said side wall means and being folded over said wall means to define top wall means for said carton, whereby upon closing said carton said right triangular portions are adapted to lie substantially coplanar with adjoining side wall means and hold the upper portions of said end wall means in an upwardly converging manner and said pair of upwardly converging side edge means of each end wall means is defined by the hypotenuses of associated right triangular portions.

5. The carton as set forth in claim 4 in which each of said rectangular outline end wall means has each of its right triangular portions made as an integral part thereof and formed by score means defining its hypotenuse and extending between top edge means and an associated side edge of each end wall means.

6. The carton as set forth in claim 5 in which, said extension flap means is foldably connected to said one side wall means along first score means defining top edge means of said one side wall means and inner edge means of said top wall means, said extension flap means has second score means provided therein and arranged parallel to said first score means to define outer edge means of said top wall means and closure flap means extending therebeyond, and said closure flap means is adapted to engage outside surface means of said other side wall means to provide a closure for said carton.

7. The carton as set forth in claim 6 in which, said bottom wall is of rectangular peripheral outline, said side wall means are fastened to opposite side edges of said bottom wall, and said end wall means are fastened to opposite end edges of said bottom wall.

8. A blank being cut and scored and adapted to be assembled to define a resulting carton upon assembly thereof, said blank comprising, a pair of side wall means, a pair of end wall means foldably connected to said side wall means, each end wall means having inclined upwardly converging side edge means symmetrically provided therein and defining an upper portion

thereof with each side edge means being adapted to adjoin an associated side wall means to control the configuration thereof in said resulting carton and provide said resulting carton having a pair of upwardly converging side wall means defining its upper end portion, each end wall means having a substantially rectangular outline prior to closing said resulting carton and having a pair of identical symmetrically arranged inverted right triangular portions defining its opposite top corner portions, extension flaps extending from lower edge means of said wall means and being adapted to be fastened together in a common plane to define a bottom wall for said resulting carton, and extension flap means extending from one of said side wall means and being adapted to be folded over said wall means to define top wall means for said resulting carton, whereby in said resulting carton said right triangular portions are adapted to lie substantially coplanar with adjoining side wall means and hold the upper portions of said end wall means in an upwardly converging manner and said pair of upwardly converging side edge means of each end wall means is defined by the hypotenuses of associated right triangular portions.

9. A blank as set forth in claim **8** in which each of said rectangular outline end wall means has score means therein defining each of its right triangular portion by defining each hypotenuse thereof which extends between top edge means and an associated side edge of each end wall means.

10. A blank being cut and scored and adapted to be assembled to define a resulting carton upon assembly thereof, said blank comprising, a pair of side wall means, a pair of end wall means foldably connected to said side wall means, each end wall means having inclined upwardly converging side edge means symmetrically provided therein and defining an upper portion thereof with each side edge means being adapted to adjoin an associated side wall means to control the configuration thereof in said resulting carton and provide said resulting carton having a pair of upwardly converging side wall means defining its upper end portion, each end wall means also having

a substantially rectangular outline prior to closing said resulting carton and having a pair of identical symmetrically arranged inverted right triangular portions defining its opposite top corner portions, score means in each end wall means defining each of its right triangular portions by defining each hypotenuse thereof which extends between top edge means and an associated side edge of each end wall means, extension flaps extending from lower edge means of said side wall means and being adapted to be fastened together in a common plane to define a bottom wall for said resulting carton, and extension flap means extending from one of said side wall means and being adapted to be folded over said wall means to define top wall means for said resulting carton, said extension flap means being foldably connected to said one side wall means along first score means defining top edge means of said one side wall means and inner edge means of said top wall means, and said extension flap means having second score means provided therein and arranged parallel to said first score means to define outer edge means of said top wall means and closure flap means extending therebeyond, and said closure flap means being adapted to engage outside surface means of said other side wall means to provide a closure for said resulting carton, whereby in said resulting carton said right triangular portions are adapted to lie substantially coplanar with adjoining side wall means and hold the upper portions of said end wall means in an upwardly converging manner and said pair of upwardly converging side edge means of each end wall means is defined by the hypotenuses of associated right triangular portions.

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