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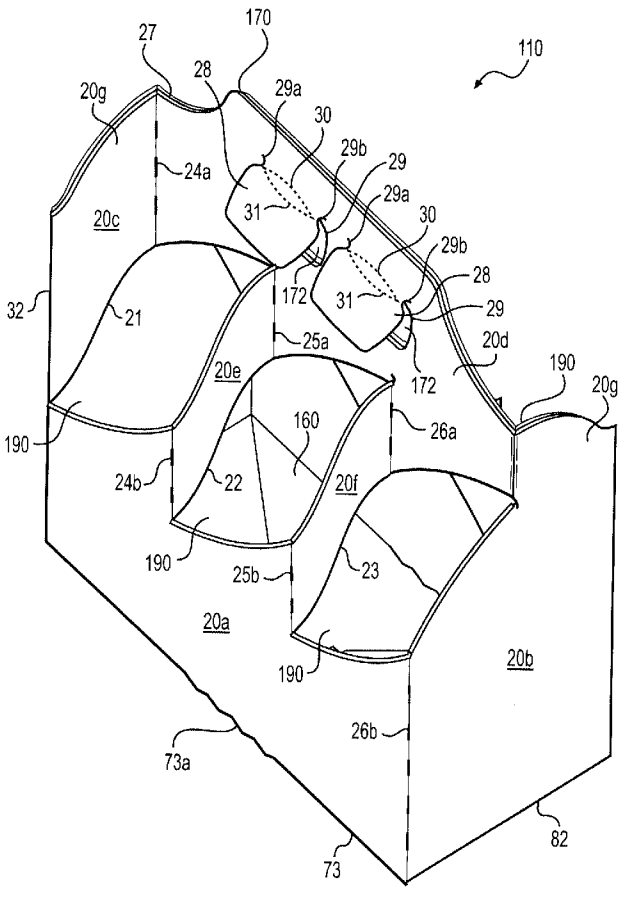
(54) Title: BASKET CARRIER INCLUDING OPEN-TOP BASKET AND LID



(57) Abstract: A basket carrier is disclosed. The carrier includes an open-top basket and a lid for the basket. The basket includes a vertically-extending handle, a pair of side walls foldably connected to the handle by a plurality of divider walls, a pair of end walls foldably connected to the side walls and the handle, and a bottom wall formed by bottom flaps foldably connected to the side walls. The side walls, end walls, divider walls and handle together define a plurality of compartments for holding containers, such as bottles or cans. The handle may include a plurality of handle flaps that are partially separable from the handle to provide comfortable gripping surfaces for a user's hand. The lid includes a top panel for covering a top area of the basket, side panels for covering the side walls of the basket, and adhesive flaps detachably connected to the side panels for attaching the lid to the basket. A handle opening is provided in the top panel, laterally offset from the handle, to provide access to the handle of the basket. Blanks for forming the lid basket and lid are also disclosed.

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BASKET CARRIER INCLUDING OPEN-TOP BASKET AND LID

[0001] This application claims the benefit of U.S. Provisional Application Number 60/880,202, filed on January 12, 2007, U.S. Provisional Application Number 60/880,221, filed on January 12, 2007 and U.S. Provisional Application Number 60/880,269, filed on January 12, 2007, the entire disclosures of which are incorporated herein by reference.

BACKGROUND

[0002] Conventional open-top, paperboard baskets for carrying containers such as bottles and cans are often difficult and uncomfortable to carry. Particularly, the handles of traditional basket carriers often include thin-walled members with relatively sharp edges that cause discomfort to a person gripping the handle. In addition to being uncomfortable to grip, the handles in traditional basket carriers can often inflict cuts and abrasions on the hands of people carrying them.

[0003] Conventional open-top baskets typically also leave the containers held therein largely unprotected, as significant portions of the containers are not covered by the basket.

[0004] In view of the issues discussed above, it is desirable to provide a basket carrier including an open-top basket having an improved handle that is comfortable for gripping. It is also desirable to provide such a basket carrier with a detachable lid for covering the basket and protecting the containers held therein.

SUMMARY

[0005] A basket carrier for carrying containers, such as bottles or cans, is disclosed. The basket carrier includes an improved basket and an improved lid for covering the basket.

[0006] According to one exemplary embodiment, a basket carrier includes a basket and a lid covering the basket. The basket may comprise a first basket side wall, a second basket side wall extending parallel to first basket side wall, a first

basket end wall extending orthogonally between the first and second basket side walls, a second basket end wall extending between the first and second basket side walls parallel to the first basket end wall, a bottom wall extending between the first and second basket side walls and the first and second basket end walls, container compartments for holding containers, and a handle extending parallel to the basket side walls between the first and second basket end walls. The handle may include one or more grip openings for gripping the handle. The lid may include a horizontally extending lid top wall positioned over the handle, a downwardly extending first lid side wall foldably connected to a first lateral side of the lid top wall and positioned over the first basket side wall, a downwardly extending second lid side wall foldably connected to a second lateral side of the lid top wall and positioned over the second basket side wall, and a handle opening disposed in the lid top wall to allow a hand to access the handle.

[0007] According to another exemplary embodiment, a basket for carrying containers includes a first side wall, a second side wall extending parallel to first side wall, a first end wall extending orthogonally between the first and second side walls, a second end wall extending between the first and second side walls parallel to the first end wall, a bottom wall extending between the first and second side walls and the first and second end walls, a handle extending parallel to the side walls between the first and second end walls, first container compartments disposed on a first side of the basket; and second container compartments disposed on a second side of the basket. The handle may include a first handle portion and a second handle portion positioned against each other in back-to-back relationship. The first handle portion and the second handle portion may each be formed as a substantially flat panel. The handle may also include one or more first handle flaps formed in the first handle portion and one or more second handle flaps formed in the second handle portion and aligned with the one or more first handle flaps. The one or more first handle flaps may be at least partially separable from the first handle portion and the one or more second handle flaps may be at least partially separable from the second handle portion to form an opening for gripping the handle. The one or more first handle flaps and the one or

more second handle flaps may further be foldable to form substantially flat gripping surfaces extending transversely to the first and second handle portions.

[0008] According to another exemplary embodiment, a basket lid may include a horizontally extending top wall, a downwardly extending first side wall foldably connected to a first lateral side of the top wall along a first fold line, a downwardly extending second side wall foldably connected to a second lateral side of the top wall a second fold line, and a handle opening disposed in the top wall and laterally offset from a central axis of the top wall extending parallel to the first and second fold lines, wherein the handle opening is configured to receive a person's hand.

[0009] Exemplary embodiments of blanks for forming a basket and a lid according to are also disclosed.

[00010] Other embodiments and aspects will become apparent to those of ordinary skill in view of the following.

BRIEF DESCRIPTION OF THE DRAWINGS

[00011] FIG. 1 is a plan view showing an outer side of a blank from which a basket of a basket carrier is formed.

[00012] FIG. 2A and 2B are plan views of the blank of FIG. 1 folded into a shipping or storage configuration.

[00013] FIGS. 3A and 3B are perspective views of the blank of FIG. 1 folded from the configuration of FIG. 2 into an unfinished basket configuration.

[00014] FIGS. 4A and 4B are perspective views of a basket erected from the blank of FIGS. 1-3B.

[00015] FIG. 4C is a bottom view of the basket of FIGS. 4A and 4B.

[00016] FIG. 4D is a perspective view of the basket of FIGS 4A-4C loaded with containers.

[00017] FIG. 5 shows a handle of the basket of FIGS. 4A-4D.

[00018] FIG. 6 is a plan view of a blank from which a lid for the basket carrier is formed.

[00019] FIG. 7 is a perspective view of a lid formed from the blank of FIG. 6.

[00020] FIGS. 8 and 9 are perspective views of a basket carrier including the basket of FIGS. 4A-4D and the lid of FIG. 7.

DETAILED DESCRIPTION

[00021] FIGS. 8 and 9 show a basket carrier or carton **400** including a basket **110** and a lid **300**, in accordance with one embodiment of the present invention. The features of the basket **110**, the lid **300** and blanks for forming the basket and the lid are described below with reference to FIGS. 1-7.

[00022] FIG. 1 shows an outer side of a blank **10** for an open-top basket **110** (FIGS. 4A-4D) of a basket carrier **400** (FIGS. 8 and 9). The blank **10** may be constructed, for example, of paperboard or another suitable material. The blank **10** includes a first upper panel **20**, a second upper panel **40** foldably connected to a first lateral edge of the first upper panel **20** along a central longitudinal fold line **34**, and a side adhesive flap, or fastening flap **60** connected to a second lateral edge of the upper panel **20** along a longitudinal fold line **32**. The blank **10** further includes a first bottom closure flap **70** foldably connected to a bottom edge of the first upper panel **20** along a lateral fold line **73**, a first bottom adhesive flap **80** foldably connected to the bottom edge of the first upper panel **20** along a lateral fold line **82**, a second bottom closure flap **90** foldably connected to a bottom edge of the second upper panel **40** along a lateral fold line **93**, and a second bottom adhesive flap **100** foldably connected to the bottom edge of the upper panel **40** along a fold line **102**.

[00023] As shown in FIG. 1, the upper panels **20, 40** are substantially rectangular and each include: a basket side wall portion **20a, 40a**; a basket end wall portion **20b, 40b** disposed adjacent to the side wall portion **20a, 40a** at a right region of the panel **20, 40**; a basket end wall reinforcement portion **20c, 40c** disposed at an upper left

region of the panel **20, 40**; a basket handle portion **20d, 40d** disposed at a central region of the panel **20, 40** above the side wall portion **20a, 40a**; a first transverse divider wall portion **20e, 40e** disposed adjacent to the end wall reinforcement panel portion **20c, 40c**, between the handle portion **20d, 40d** and the sidewall portion **20a, 40a**; and a second transverse divider wall portion **20f, 40f** disposed adjacent to the first transverse divider wall portion **20e, 40e**, between the handle portion **20d, 40d** and the sidewall portion **20a, 40a**. The upper panels **20, 40** are also shown to have radiused upper corners **20g, 40g**, which increase open area in the erected basket **110** and improve the aesthetics of the basket. It should be understood, however, that the upper panels **20, 40** may be have a shape that varies from the substantially rectangular shape shown.

[00024] The handle portions **20d, 40d** each optionally include a pair of adjacent handle grip elements or flaps **28**. The handle grip elements **28** are each formed by a substantially U-shaped cut line **29** having endpoints **29a, 29b**, a convex fold line **30** extending between the endpoints **29a, 29b**, and a concave fold line **31** extending between the endpoints **29a, 29b** below convex the fold line **30**. As will be described later, the handle grip elements **28** can be partially separated from the handle portion **20d** and folded to expose handle openings **172** (FIGS. 4A, 4B and 5) for gripping by a person's hand.

[00025] The upper panel **20** includes a plurality of laterally-spaced, diagonally extending container compartment cut lines **21, 22, 23** positioned bellow the handle portion **20d**, and a plurality of laterally-spaced, longitudinally extending interior fold lines **24, 25, 26**. The cut lines **21, 22, 23** preferably extend entirely or substantially entirely through the thickness of the blank **10** such that the cut lines **21, 22, 23** can be opened to form compartments **190** (FIG. 4A) for bottles, cans or other containers **C** (FIG. 4D), as will be described later. Although the cut lines **21, 22, 23** are shown to be generally S-shaped, they may instead be substantially straight or have other suitable shapes. The arrangement of the cut lines **21, 22, 23** and the fold lines **24, 25, 26** is discussed below.

[00026] The outermost container compartment cut line **21** extends from a lower end **21a**, which intersects the fold line **32**, to an upper end **21b**. The outermost interior fold line **24** extends from the upper edge of the panel **20** and is bisected into an upper segment **24a** and a lower segment **24b** by the cut line **21**. The middle cut line **22** extends from a lower end **22a**, which intersects a lower end of the interior fold line **24**, to an upper end **22b**. The middle interior fold line **25** extends from the upper end **21a** of the cut line **21** to a lower end **23a** of the innermost container cut line **23**. The fold line **25** is bisected into an upper segment **25a** and a lower segment **25b** by the cut line **22**. The container compartment cut line **23** extends from its lower end **23a** to an upper end **23b**. The innermost interior fold line **26** extends from the upper end **22b** of the cut line **22** to the bottom edge of the panel **20**, where it intersects the lateral fold lines **73, 82**. The fold line **26** is bisected into an upper segment **26a** and a lower segment **26b** by the innermost container compartment cut line **23**.

[00027] The panel **20** also includes a series of longitudinally extending slits or fold lines **36** extending between the upper end **23b** of the cut line **23** and the upper edge **27** of the panel **20**. The slits/fold lines **36** facilitate folding of the end wall portion **20b**.

[00028] As can be understood from the foregoing description and FIG. 1, the side wall portion **20a** is defined by the area outlined by the lower portion of the fold line **32**, the lower portion of the cut lines **21, 22, 23** the line segments **24b, 25b, 26b**, and the fold line **73**. The end wall portion **20b** is defined by the area outlined by the line segment **26b**, the upper portion of the cut line **23**, the slits/fold lines **36**, the upper edge **27** of the panel **20** the fold line **34**, and the fold line **82**. The end wall reinforcement portion **20c** is formed in the area outlined by the upper portion of the fold line **32**, the upper edge **27** of the panel **20**, the line segment **24a** and the lower portion of the cut line **21**. The handle portion **20d** is defined in the area outlined by the line segments **24a, 25a, 26a** the upper edge **27** of the panel **20**, the slits/fold lines **36** and the upper portions of the cut lies **21, 22, 23**. The divider panel portion **20e** is formed in the area outlined by the upper portion of the cut line **21**, the lower portion of cut line **22**, the line segment **24b** and the line segment **25a**. The divider panel **20f** is defined in the area surrounded by the upper portion of the cut line **22**, the lower portion of the cut line **23**, the line segment **25b** and the line segment **26a**.

[00029] Still referring to FIG. 1, the second upper panel **40** is similar to the first upper panel **20**. The upper panel **40** includes a plurality of laterally-spaced, diagonally extending container compartment cut lines **41, 42, 43** positioned bellow the handle portion **40d**, and a plurality of laterally-spaced, longitudinally extending interior fold lines **44, 45, 46**. In accordance with the embodiment shown in the drawings, the cut lines **41, 42, 43** have the same shape, structure and relative spacing as the cut lines **21, 22, 23** such that the cut lines **41, 42, 43** can be opened to form compartments **190** (FIG. 4B) for containers **C** (FIG. 4D).

[00030] The innermost container compartment cut line **41** extends from a lower end **21a**, which intersects the central fold line **34**, to an upper end **41b**. The innermost interior fold line **44** extends from the upper edge of the panel **40** and is bisected into an upper segment **44a** and a lower segment **44b** by the cut line **41**. The middle cut line **42** extends from a lower end **42a**, which intersects a lower end of the interior fold line **44**, to an upper end **42b**. The middle interior fold line **45** extends from the upper end of the cut line **21** to a lower end **43a** of the outermost container compartment cut line **43**. The fold line **45** is bisected into an upper segment **45a** and a lower segment **45b** by the cut line **42**. The outermost container compartment cut line **43** extends from its lower end **43a** to an upper end **43b**. The outermost interior fold line **46** extends from the upper end **42a** of the cut line **42** to the bottom edge of the panel **40**, where it intersects the lateral fold lines **93, 102**. The fold line **46** is bisected into an upper segment **46a** and a lower segment **46b** by the outermost container compartment cut line **43**.

[00031] The panel **40** also includes a series of longitudinally extending slits or fold lines **56** (similar to slits/fold lines **36**) extending between the upper end **43b** of the cut line **43** and the upper edge **47** of the panel **40**.

[00032] The side wall portion **40a** is defined by the area outlined by the lower portion of the fold line **34**, the lower portion of the cut lines **41, 42, 43** the line segments **44b, 45b, 46b**, and the fold line **93**. The end wall portion **40b** is defined by the area outlined by the line segment **46b**, the upper portion of the cut line **43**, the slits/fold lines **56**, the upper edge **47** of the panel **40**, the outer lateral edge **49** of the

panel **40** and the fold line **102**. The end wall reinforcement portion **40c** is formed in the area outlined by the upper portion of the fold line **34**, the upper edge **47** of the panel **40**, the line segment **44a** and the lower portion of the cut line **41**. The handle portion **40d** is defined in the area outlined by the line segments **44a, 45a, 46a** the upper edge **47** of the panel **40**, the slits/fold lines **56** and the upper portions of the cut lies **41, 42, 43**. The divider panel portion **40e** is formed in the area outlined by the upper portion of the cut line **41**, the lower portion of cut line **42**, the line segment **44b** and the line segment **45a**. The divider panel **40f** is defined in the area surrounded by the upper portion of the cut line **42**, the lower portion of the cut line **43**, the line segment **45b** and the line segment **46a**.

[00033] The panel **40** may also be provided with an adhesive in the schematically illustrated region **48** near the outer lateral edge **49** of the end wall portion **40b** for attaching the adhesive flap **60** thereto, as shown in FIG. 2A.

[00034] Due to the arrangement described above, the cut lines **21, 22, 23/ 41,42,43** and the fold lines **24, 25, 26/ 44, 45, 46** together allow folding of the side wall portion **20a/40a**, the end wall portion **20b/40b**, the end wall reinforcement portion **20c/40c** and the transverse divider wall portions **20e, 20f/ 40e, 40f**, and allow partial separation of the side wall portion **20a/40a** from the end wall reinforcement portion **20c/40c**, the handle portion **20d/40d** and the transverse divider wall portions **20e, 20f/ 40e, 40f** to form three container compartments **190** (FIGS. 4A and 4B) on each side of the basket **110**. Thus, the basket **110**, as configured, provides six container compartments **190**. However, one of skill in the art will understand that the number of compartments can be increased or decreased by increasing or decreasing the number of cut lines **21, 22, 23/ 41,42,43** and fold lines **24, 25, 26/ 44, 45, 46**.

[00035] Still referring to FIG. 1, the bottom closure flaps **70, 90** each include a major flap member **72, 92** that is generally trapezoidal in shape, and a generally trapezoidal minor flap member **74, 94** attached to the major flap member along a diagonal fold line **75, 95**. Interlocking notches **77, 97** are provided between the major flap members **72, 92** and the minor flap members **74, 94** in middle lateral regions of the flaps **70, 90** to facilitate interlocking locking engagement of the flaps **70, 90** with

each other in the erected basket **110**. Clearance notches **76, 96** are also provided between the major flap members **72, 92** and the minor flap members **74, 94** at lateral edges near the intersection points of the lateral fold lines **73, 93** and the longitudinal fold lines **32, 34** to provide clearance during folding of the flaps **70, 90**. Zig-zag shaped portions **73a, 93a** may also be provided in the fold lines **73, 93** to facilitate folding of the flaps **70, 90** during erection of the basket **110**.

[00036] The bottom adhesive flaps **80, 100** may be generally trapezoidal in shape to provide clearance with respect to the upper panels **20, 40** during folding of the blank **10** to erect the basket **110**. The adhesive flaps **80, 100** may also include schematically illustrated adhesive regions **84, 104** on their inner surfaces for securing the bottom closure flaps **70, 80** to the adhesive flaps **80, 100**.

[00037] FIGS. 2A and 2B show the blank **10** folded into an example of what can be referred to as a storage or shipping configuration. In this configuration, the upper panels **20, 40** are folded together such that they lie substantially flat with their inside or back surfaces facing each other (i.e., back-to-back). The handle portions **20d, 40d** may be adhered together to prevent relative movement between them, and the side adhesive flap **60** is folded downward about the fold line **32** such that the back side of the side adhesive flap **60** is adhered to the adhesive region **48** of the end wall portion **40b**. In this configuration, the side wall portions **20a, 40a** are laterally offset from each other, the handle portions **20d, 40d** are aligned back-to-back with each other, the end wall portion **40b** is aligned back-to-back with the end wall reinforcement portion **20c**, the end wall portion **20b** is aligned back-to-back with the end wall reinforcement portion **40c**. From this configuration, the blank **10** may easily be erected into a basket **110**.

[00038] The process of erecting a basket **110** from the blank **10** is illustrated in FIGS. 3A-4C and will be described in the following, in accordance with an embodiment of the invention. In a first step illustrated in FIGS. 3A and 3B, the blank **10** in the shipping configuration may be folded into the partially erected basket formation shown in FIG. 3 by, simultaneously: retaining the end wall reinforcement portion **40c** against the end wall portion **20b**; retaining the end wall reinforcement

portion **20c** against the end wall portion **40b**; forcing the side wall portion **20a** to fold outward, transversely to the lateral and longitudinal directions of the blank **10**, about the lower portion of the fold line **32** and the lower segment **26b** of the fold line **26**, such that the sidewall portion **20a** extends substantially parallel to the handle portion **20d**; forcing the side wall portion **40a** to fold outward, transversely to the lateral and longitudinal directions of the blank **10**, about the lower portion of the fold line **34** and the lower segment **46b** of the fold line **46**, such that the sidewall portion **40a** extends substantially parallel to the side wall portion **46a** and the handle portion **40d**; forcing the end wall portion **20b** to fold about the line segment **26b**, the slits/fold lines **36**, and the fold line **34** such that the end wall portion **20b** extends substantially orthogonally to the side wall portions **20a, 40a**; and forcing the end wall portion **40b** to fold about the line segment **46b**, the slits/fold lines **56**, and the fold line **32** of the side adhesive flap **60** (which is attached to the end wall portion **40b**) such that the end wall portion **40b** extends substantially orthogonally to the side wall portions **20a, 40a** and parallel to the end wall portion **20b**. Folding the blank in this manner causes the transverse divider wall portions **20e, 20f /40e, 40f** to fold so as to extend transversely to the side wall portions **20a/40a** and the handle portions **20d/40d**. Specifically, the divider wall portions **20e, 40e** fold about the lower line segments **24b, 44b** of the fold lines **24, 44** and the respective upper line segments **25a, 45a** of the fold lines **25, 45**; while the divider wall portions **20f, 40f** fold about the respective lower line segments **25b, 45b** of the fold lines **25, 45** and the respective upper line segments **26a, 46a** of the fold lines **26, 46**.

[00039] Next, as shown in FIG. 4C, the bottom adhesive flaps **80, 100** in the formation of FIG. 3 are folded inward, and the bottom closure flaps **70, 90** are folded inward into interlocking engagement with each other with the minor flap members **74, 94** adhered to the inner surfaces of the adhesive flaps **100, 80**. The bottom closure flaps **70, 90** are interlocked such that the interlocking notches **77, 97** engage each other, the major flap member **72** lies over the adhesive flap **80**, and the major flap member **92** lies over the adhesive flap **100**. Thus, the closure flaps **70, 90** are secured in a position substantially orthogonal to the side wall portions **20a, 40a** and the end

wall portions **20b, 40b**, thereby forming a bottom wall **160**, completing the erection of the basket **110**. Differently configured bottom walls may be used.

[00040] As shown in FIGS. 4A-4D, the basket **110** includes: first and second side walls **20a, 40a**; first and second end walls **20b, 40b** extending orthogonally between the side walls **20a, 40a** at opposite ends of the side walls; a bottom wall **160** formed by the bottom closure flaps **70, 90**, which are respectively connected to the first and second side walls **20a, 40a** along the fold lines **73, 93**, and the bottom adhesive flaps **80, 100**, which are respectively connected to the first and second end walls **20b, 40b**; a handle **170** formed by first and second handle portions **20d, 40d** in a center region of the basket **110** and extending between the end walls **20b, 40b** above and parallel to the side walls **20a, 40a**; first and second divider walls **20e, 20f** extending at an inclined angle from the first side wall **20a** to the handle **170**; third and fourth divider walls **40e, 40f** extending at an inclined angle from the second side wall **40a** to the handle **170**; and a plurality of container compartments **190** defined on opposing sides of the basket **110**.

[00041] The end wall reinforcement portions **20c, 40c** form reinforcing walls disposed parallel to the end walls **40b, 20b** in back-to-back relationship with the end walls **20b, 40b**. As can be seen in FIGS. 4A and 4B, the reinforcement walls **20c, 40c** reinforce the end walls **40b, 20b** and support the handle portions **20d, 40d**.

[00042] Referring to FIG. 4A, the container compartments **190** on a first side of the basket **110** are defined by the first side wall **20a**, the first handle portion **20d**, the first and second end walls **20b, 40b**, the first reinforcing wall **20b**, and the bottom wall **160**. Turning to FIG. 4B, the container compartments **190** on the second side of the basket **110** are defined by the second side wall **40a**, the second handle portion **40d**, the first and second end walls **20b, 40b**, the second reinforcing wall **40b**, and the bottom wall **160**.

[00043] The handle **170** is configured such that the handle portions **20d, 40d** form substantially flat handle panels aligned in a back-to-back configuration with the grip

elements **28** in the handle portion **20d** being aligned with the grip elements **28** in the handle portion **40d**.

[00044] Referring to FIG. 4A, the first side wall **20a** and the first end wall **20b** are connected along the segment **26b** of the fold line **26**. The first divider wall **20e** is connected to the first handle portion **20d** along the segment **25a** of the fold line **25** and is connected to the first side wall **20a** along the segment **24b** of the fold line **24**. The second divider wall **20f** is connected to the first handle portion **20d** along the segment **26a** of fold line **26** and is connected to the first side wall **20a** along the segment **25b** of the fold line **25** The first reinforcing wall **20c** is connected to the first handle portion **20d** along the segment **24a** of the fold line **24**. The first side wall **20a** and the first reinforcing wall **20c** are connected to the second end wall **40b** by the adhesive flap **60**, which extends parallel to the second end wall **40b** and is connected to first side wall **20a** and the first reinforcing wall **20c** along the fold line **32**.

[00045] Turning to FIG. 4B, the second side wall **40a** and the second end wall **40b** are connected along the segment **46b** of the fold line **46**. The third divider wall **40e** is connected to the second handle portion **40d** along the segment **45a** of the fold line **45** and is connected to the first side wall **40a** along the segment **44b** of the fold line **44**. The fourth divider wall **40f** is connected to the second handle portion **40d** along the segment **46a** of the fold line **46** and is connected to the second side wall **40a** along the segment **45b** of the fold line **45**. The second reinforcing wall **40c** is connected to the second handle portion **40d** along the segment **44a** of the fold line **44**. The second side wall **40a** and the second reinforcing wall **40c** are connected to the first end wall **20b** along the fold line **34**.

[00046] As best shown in FIG. 5, to facilitate carrying the basket **110**, each handle grip element **28** can be partially separated from the respective handle portion **20d, 40d** and folded outward about the fold line **30** to expose a pair of handle openings **172** and to cause the portion **28b** of the grip element **28** between the convex fold line **30** and the concave fold line **31** to extend transversely to the remainder of the handle **170**. Thus, the inner surface of the portion **28b** of the grip element **28** forms a lateral gripping surface against which a person's fingers can rest when the handle **170** is

gripped. The portion **28a** of the grip element **28** defined within the fold line **31** and the U-shaped cut line **29** can be folded further upward, in the direction **U**, about the fold line **31** such that the inner surface of the portion **28a** forms a substantially vertical gripping surface for a person's fingers. Thus, the finger grip elements **28** form large, comfortable surfaces that can be gripped by a person's fingers while reducing the likelihood that the handle **170** will injure or irritate a person's hand while carrying the basket **110**.

[00047] FIG. 6 shows the outer surface of a blank **200** for forming a lid **300** of a basket carrier **400** (FIGS. 7A and 7B). The blank **200** includes: a rectangular top wall panel **210** disposed at a center of the blank; a pair of substantially rectangular side wall panels **220** foldably connected to opposite lateral sides of the top wall panel **210** along longitudinally extending fold lines **212**; a pair of trapezoidal web panels **230** foldably connected to ends of the top wall panel **210** and foldably connected to the side wall panels **220**; and a pair of adhesive flaps **250** foldably and detachably connected to the side wall panels **220** along lines of weakness **252** (e.g., tear lines). The adhesive flaps **250** may include adhesive on their inner surfaces for attaching the flaps **250** to the basket **110**, as will be described later.

[00048] The web panels **230** each include a rectangular panel member **232** foldably connected to the top wall panel **210** along a laterally extending fold line **214**. Each web panel **230** further includes a pair of gusset members **234** foldably connected to the rectangular panel member **232** and one of the side wall panels **220**. Each of the gusset members **234** is connected to a respective one of the panel members **232** along a longitudinal fold line **236**, which is collinear with a respective one of the fold lines **212**. Each gusset member **234** is also connected to a respective one of the side wall panels **220** along a diagonal fold line **222**.

[00049] The top wall panel **210** includes a handle opening **216** which is sized and shaped to expose the handle **170** of the basket **110** and to accommodate a person's hand when the blank is formed into the lid **300** on the basket. The handle opening **216** has an oval shape and extends lengthwise in the longitudinal direction of blank **200**. The opening **216** is laterally offset from a central longitudinal axis **Y** (extending

parallel to the fold lines **212**) of the top wall panel **210** to provide better access to the handle **170**, as will be described in more detail later. A plurality of openings **224** are provided near laterally inner regions of the side wall panels **220** for receiving the tops of containers **C** held within the basket **110**. The openings **224** are spaced to correspond to the container compartments **190** in the basket **110**. As shown in FIG. 8, the openings **224** may partially extend across the fold lines **212** into the top wall panel **210**. Weakening patterns **226** are provided in the side wall panels **220** laterally adjacent to the openings **224**. Each weakening pattern **226** may include a plurality of lines of weakness (e.g., slits and/or tear lines), such as a central line of weakness **226a** extending laterally from the opening **224** and a pair of diagonal lines of weakness **226b** disposed on opposite sides of the central line of weakness **226a**. it should be understood that, although any number of openings **224** may be provided, the openings **224** should be equal in number to the container compartments **290** of the basket **110**.

[00050] FIG. 7 shows a lid **300** formed by the blank **200**. To form the lid **300**, the side wall panels **220** are folded towards each other about the fold lines **212** such that the side wall panels **220** and adhesive flaps **250** extend transversely to the top wall panel **210** and the back sides of the side panels **220** face each other. The rectangular panel members **232** are folded inward towards each other about the fold lines **214** such that the rectangular panel members **232** extend and transversely to the side panels **220** and the top wall panel **210**. The gusset members **234** are folded about the fold lines **236, 222** such that the gusset members **234** extend transversely between the respective side panel **220** and rectangular panel member **232**.

[00051] Thus, as indicated in FIG. 7, the lid **300** includes a substantially horizontal top wall **210**, substantially downwardly extending side walls **220** connected to opposite sides of the top wall **210** along fold lines **212**, a pair of trapezoidal web panels **230** formed foldably connected to opposite ends of the top panel **210** and to the side panels **220**, and a pair of adhesive flaps **250** foldably and detachably connected to the side walls **220** along the lines of weakness **252**. The lid is configured such that the handle access opening **216** is laterally offset from the central longitudinal axis **L** of the top wall **210**. The lid **300** is also configured such that the container top openings

224 and weakening patterns **226** positioned in upper portions of the side walls **220**, with the openings **224** extending partially into the top wall **210**.

[00052] Referring to FIGS. 8 and 9, to form the basket carrier **400**, the lid **300** is first positioned over the basket **110** such that each of the side walls **220** of the lid **300** is aligned with a side wall **20a/ 40a** of the basket **110**, and the top wall **210** of the lid **300** is positioned over the handle **170**. The lid **300** is then attached to basket by attaching the adhesive flaps **250** to the side walls **20a, 40a**.

[00053] Thus, as shown in FIGS. 8 and 9, the carrier **400** is formed such that the side walls **320** of the lid **300** cover the side walls **20a, 40a** and the container compartments **190** of the basket **110**, and the top wall **310** of the lid **300** extends over the handle **170** of the basket **110** to cover the open top of the basket **110**. Each of the container top openings **224** is aligned with and positioned above one of the container compartments **190**, and the handle access opening **216** is laterally offset from the handle **170**, with the handle **170** being positioned beneath the opening **216**. Although the handle access opening **216** is laterally offset from the handle **170**, the handle **170** may be positioned within or close to the perimeter **218** of the opening **216** to provide optimum access to the handle **170**. Therefore, a person can easily grab and carry the carrier **400** by inserting his hand into the opening **216**, inserting his fingers through the handle openings **172**, and gripping the handle **170**. The relative positioning of the handle **170** and the opening **216** provides generous space for a person's hand and comfortable positioning of the hand in the carrier **400**.

[00054] To remove containers **C** from the carrier **400** with the lid installed, the containers **C** can be pulled through the openings **224**. As containers **C** are pulled through the openings **224**, the weakening patterns **226** will partially separate from the side walls **320**, thereby expanding the openings **226** to facilitate removal of the containers.

[00055] Access to the containers **C** can also be gained by detaching the side walls **220** from the adhesive flaps **250** along lines of weakness **252**, such that the adhesive

flaps **250** remain attached to the side walls **20a, 40a** of the basket **110** and the remainder of the lid **300** is removed from the basket **110**.

[00056] In accordance with the exemplary embodiments, the cartons (i.e., basket and lid) may be constructed of paperboard, for example. The paperboard webs used to form the blank may be thicker and heavier than ordinary paper. The blanks, and thus the carton and lid, can also be constructed of other materials, such as cardboard, or any other material having properties suitable for enabling the cartons to function at least generally as described above. For example, the blanks may be formed from coated solid unbleached sulfate (SUS) board. The blanks can also be laminated to or coated with one or more web-like materials at selected panels or panel sections.

[00057] One or more panels of the blanks discussed above can be coated with varnish, clay, or other materials, either alone or in combination. The coating may then be printed over with product, advertising, and other information or images. The blanks may also be coated to protect any information printed on the blank. The blanks may be coated with, for example, a moisture barrier layer, on either or both sides of the blanks.

[00058] In accordance with the exemplary embodiments, a fold line or line of weakness can be any substantially linear, although not necessarily straight, form of weakening that facilitates folding therealong. More specifically, but not for the purpose of narrowing the scope of the present invention, fold lines include: a score line, such as lines formed with a blunt scoring knife, or the like, which creates a crushed portion in the material along the desired line of weakness; a cut that extends partially into a material along the desired line of weakness, and/or a series of cuts that extend partially into and/or completely through the material along the desired line of weakness; and various combinations of these features. In situations where cutting is used to create a fold line, typically the cutting will not be overly extensive in a manner that might cause a reasonable user to incorrectly consider the fold line to be a tear line. A pattern of weakness can be any pattern which serves as a form of weakening to facilitate folding or tearing.

[00059] The term "line" as used herein includes not only straight lines, but also other types of lines such as curved, curvilinear or angularly displaced lines.

[00060] In the present specification, a "panel" need not be flat or otherwise planar. A "panel" can, for example, comprise a plurality of interconnected generally flat or planar sections.

[00061] In the present specification, reference is made to various directions, such as "vertical," "lateral," "longitudinal," variations thereof. It should be understood that such descriptions are provided to facilitate understanding of the relative orientation of various elements described herein, and are not intended to be limiting.

[00062] The foregoing description of the invention illustrates and describes the present invention. Additionally, the disclosure shows and describes only selected embodiments of the invention, but it is to be understood that the invention is capable of use in various other combinations, modifications, and environments and is capable of changes or modifications within the scope of the inventive concept as expressed herein, commensurate with the above teachings, and/or within the skill or knowledge of the relevant art.

CLAIMS

We claim:

1. A basket carrier for carrying containers, the basket carrier comprising:

a basket comprising

a first basket side wall,

a second basket side wall extending parallel to first basket side wall,

a first basket end wall extending orthogonally between the first and second basket side walls,

a second basket end wall extending between the first and second basket side walls parallel to the first basket end wall;

a bottom wall extending between the first and second basket side walls and the first and second basket end walls;

a handle extending parallel to the first and second basket side walls between the first and second basket end walls, the handle including at east one grip opening for gripping the handle, and

container compartments for holding containers; and

a lid covering the basket, the lid comprising

a horizontally extending lid top wall positioned over the handle;

a downwardly extending first lid side wall foldably connected to a first lateral side of the lid top wall and positioned over the first basket side wall;

a downwardly extending second lid side wall foldably connected to a second lateral side of the lid top panel wall and positioned over the second basket side wall; and

a handle opening disposed in the lid top wall to allow a hand to access the handle.

2. The basket carrier of claim 1, wherein the handle opening is laterally offset from the handle.

3. The basket carrier of claim 1, wherein the lid comprises:

a first adhesive flap detachably connected to the first lid side wall along a first line of weakness and adhered to the first basket side wall, and

a second adhesive flap detachably connected to the second lid side wall along a second line of weakness and adhered to the second basket side wall.

4. The basket carrier of claim 1, wherein the lid comprises container access openings disposed partially in the lid side walls and partially in the lid top, wherein the container access openings are aligned with the container compartments.

5. The basket carrier of claim 4, wherein the lid comprises weakening patterns positioned to allow enlargement of the container access openings.

6. The basket carrier of claim 1, wherein the handle comprises:

a first handle portion and a second handle portion positioned against each other in back-to-back relationship, the first handle portion and the second handle portion each being formed as a substantially flat panel;

at least one first handle flap formed in the first handle portion; and

at least one second handle flap formed in the second handle portion and aligned with the at least one first handle flap, wherein

the at least one first handle flap is partially separable from the first handle portion and the at least one second handle flap is partially separable from the second handle portion to form the at least one grip opening,

the at least one first handle flap is foldable to form a first substantially flat gripping surface extending transversely to the first and second handle portions, and

the at least one second handle flap is foldable to form a second substantially flat gripping surface extending transversely to the first and second handle portions.

7. The basket carrier of claim 6, wherein:

the first handle flap is defined by a first substantially U-shaped cut line in the first handle portion, a first convex fold line extending between endpoints of the first substantially U-shaped cut line, and a first concave fold line extending between the endpoints of the first substantially U-shaped cut line; and

the second handle flap is defined by a second substantially U-shaped cut line in the second handle portion, a second convex fold line extending between endpoints of the second substantially U-shaped cut line, and a second concave fold line extending between the endpoints of the second substantially U-shaped cut line.

8. The basket carrier of claim 7, wherein:

the first substantially flat gripping surface is defined by the first convex fold line and the first concave fold line; and

the second substantially flat gripping surface is defined by the second convex fold line and the second concave fold line.

9. The basket carrier of claim 7, wherein:

the first handle flap is foldable to form a first substantially vertical gripping surface defined by the first substantially U-shaped cut line and the first concave fold line; and

the second handle flap is foldable to form a second substantially vertical gripping surface defined by the second substantially U-shaped cut line and the second concave fold line.

10. A blank for forming a basket suitable for carrying a plurality of containers, the blank comprising:

a first upper panel, wherein the first upper panel includes a first handle portion;

a second upper panel foldably connected to an inner lateral edge of the first upper panel along a central fold line, wherein the second upper panel includes a second handle portion,;

a side flap connected to an outer lateral edge of the first upper panel along a first longitudinal fold line, wherein the side adhesive flap is configured to be attached to the second upper panel;

a first bottom closure flap foldably connected to a bottom edge of the first upper panel along a first lateral fold line; and

a second bottom closure flap foldably connected to a bottom edge of the second upper panel along a second lateral fold line.

11. The blank of claim 10, wherein:

the first handle portion includes at least one first handle flap that is partially separable from the first handle portion;

the second handle portion includes at least one second handle flap that is partially separable from the second handle portion; and

the at least one first handle flap and the at least one second handle flap are each at least partially defined by a substantially U-shaped cut line.

12. The blank of claim 11, wherein the at least one first handle flap and the at least one second handle flap are each at least partially defined by a convex fold line extending between endpoints of the substantially U-shaped cut line and a concave fold line extending between the endpoints of the substantially U-shaped cut line below the convex fold line.

13. The blank of claim 10, wherein:

the first upper panel comprises first substantially diagonally extending cut lines laterally spaced from each other, and first longitudinally extending interior fold lines laterally spaced from each other;

the second upper panel comprises second substantially diagonally extending cut lines laterally spaced from each other, and second longitudinally extending interior fold lines laterally spaced from each other;

each of the first substantially diagonally extending cut lines bisects one of the first longitudinally extending interior fold lines; and

each of the second substantially diagonally extending cut lines bisects one of the second longitudinally extending interior fold lines.

14. The blank of claim 13, wherein:

the first substantially diagonally extending cut lines and the first longitudinally extending interior fold lines together at least partially define a first side wall portion, a first end wall portion, a first end wall reinforcement portion, the first handle portion and at least one first divider wall portion; and

the second substantially diagonally extending cut lines and the second longitudinally extending interior fold lines together at least partially define a second side wall portion, a second end wall portion, a second end wall reinforcement portion, the second handle portion and at least one second divider wall portion.

15. The blank of claim 13, wherein the first substantially diagonally extending cut lines and the second substantially diagonally extending cut lines are substantially S-shaped.

16. The blank of claim 13, wherein:

the first upper panel includes a first group of longitudinal slits that partially defines the first end wall; and

the second upper panel includes a second group of longitudinal slits that partially defines the second end wall.

17. The blank of claim 10, comprising:

a first bottom glue flap connected to the bottom edge of the first upper panel along a third lateral fold line, and configured to be attached to the second bottom closure flap; and

a second bottom glue flap connected to the bottom edge of the second upper panel along a fourth lateral fold line, and configured to be attached to the first bottom closure flap.

18. The blank of claim 10, wherein the first bottom closure flap and the second bottom closure flap are configured to engage each other in an interlocking relationship.

19. A basket for carrying a plurality of containers, the basket comprising:

a first side wall;

a second side wall extending parallel to first side wall;

a first end wall extending orthogonally between the first and second side walls,

a second end wall extending between the first and second side walls parallel to the first end wall;

a bottom wall extending between the first and second side walls and the first and second end walls;

a handle extending parallel to the side walls between the first and second end walls, the handle comprising a first handle portion and a second handle portion positioned against each other in back-to-back relationship, the first handle portion and the second handle portion each being formed as a substantially flat panel;

at least one first handle flap formed in the first handle portion;

at least one second handle flap formed in the second handle portion and aligned with the at least one first handle flap;

a plurality of first container compartments disposed on a first side of the basket; and

a plurality of second container compartments disposed on a second side of the basket, wherein

the at least one first handle flap is partially separable from the first handle portion and the at least one second handle flap is partially separable from the second handle portion to form an opening for gripping the handle,

the at least one first handle flap is foldable to form a first substantially flat gripping surface extending transversely to the first and second handle portions, and

the at least one second handle flap is foldable to form a second substantially flat gripping surface extending transversely to the first and second handle portions.

20. The basket of claim 19, wherein:

the first handle flap is defined by a first substantially U-shaped cut line in the first handle portion, a first convex fold line extending between endpoints of the first

substantially U-shaped cut line, and a first concave fold line extending between the endpoints of the first substantially U-shaped cut line; and

the second handle flap is defined by a second substantially U-shaped cut line in the second handle portion, a second convex fold line extending between endpoints of the second substantially U-shaped cut line, and a second concave fold line extending between the endpoints of the second substantially U-shaped cut line.

21. The basket of claim 20, wherein:

the first substantially flat gripping surface is defined by the first convex fold line and the first concave fold line; and

the second substantially flat gripping surface is defined by the second convex fold line and the second concave fold line.

22. The basket of claim 20, wherein:

the first handle flap is foldable to form a first substantially vertical gripping surface defined by the first substantially U-shaped cut line and the first concave fold line; and

the second handle flap is foldable to form a second substantially vertical gripping surface defined by the second substantially U-shaped cut line and the second concave fold line.

23. The basket of claim 19, comprising:

a first reinforcement wall disposed in back-to-back relationship with the second end wall, wherein the first reinforcement wall is foldably connected to the first handle portion and is foldably connected to a side flap that is adhered to the second end wall; and

a second reinforcement wall disposed in back-to-back relationship with the first end wall, wherein the second reinforcement wall is foldably connected to the second handle portion and the first end wall.

24. The basket of claim 23, comprising:

at least one first divider panel foldably connected to the first side wall and the first handle portion, wherein the at least one first divider panel, the first handle portion, the first reinforcement wall, the first side wall and the first end wall and the bottom wall together define the plurality of first container compartments; and

at least one second divider panel foldably connected to the second side wall and the second handle portion, wherein the at least one second divider panel, the second handle portion, the second reinforcement wall, the second side wall, the second end wall and the bottom wall together define the plurality of second container compartments.

25. The basket of claim 23, wherein:

the first side wall is foldably connected to the side flap; and

the second side wall is foldably connected to the first end wall.

26. The basket of claim 19, wherein:

the first end wall is foldably connected to the first handle portion; and

the second end wall is foldably connected to the second handle portion.

27. A blank for forming a basket lid, comprising:

a top wall panel disposed at a center of the blank;

a first side wall panel foldably connected to a first lateral side of the top wall panel along a first fold line;

a second side wall panel foldably connected to a second lateral side of the top wall panel along a second fold line; and

a handle opening disposed in the top wall panel and laterally offset from a central axis of the top wall panel extending parallel to the first and second fold lines, wherein the handle opening is configured to receive a person's hand.

28. The blank of claim 27, comprising:

a first adhesive flap detachably connected to the first side wall panel along a first line of weakness, and

a second adhesive flap detachably connected to the second side wall panel along a second line of weakness.

29. The blank of claim 27, comprising:

a first web member foldably connected to a first end of the top wall panel and connected to the first and second side wall panels; and

a second web member foldably connected to a second end of the top wall panel and connected to the first and second side wall panels.

30. The blank of claim 29, wherein the first and second web members each comprise:

a rectangular member foldably connected to the top wall panel;

a first gusset member foldably connected to the rectangular member and the second side wall panel; and

a second gusset member foldably connected to the rectangular member and the first side wall panel.

31. The blank of claim 27, comprising:

first openings disposed partially in the first side wall panel and partially in the top wall panel; and

second openings disposed partially in the second side wall panel and partially in the top wall panel.

32. The blank of claim 31, comprising:

first patterns of weakness positioned to allow enlargement of the first openings; and

second patterns of weakness positioned to allow enlargement of the second openings.

33. A basket lid comprising:

a horizontally extending top wall;

a downwardly extending first side wall foldably connected to a first lateral side of the top wall along a first fold line;

a downwardly extending second side wall foldably connected to a second lateral side of the top wall a second fold line; and

a handle opening disposed in the top wall and laterally offset from a central axis of the top wall extending parallel to the first and second fold lines, wherein the handle opening is configured to receive a person's hand.

34. The lid of claim 33, comprising:

a first adhesive flap detachably connected to the first side wall along a first line of weakness, and

a second adhesive flap detachably connected to the second side wall along a second line of weakness.

35. The lid of claim 33, comprising:

a first web member foldably connected to a first end of the top wall and connected to the first and second side walls; and

a second web member foldably connected to a second end of the top wall and connected to the first and second side walls.

36. The lid of claim 35, wherein the first and second web members each comprise:

a rectangular member foldably connected to the top wall;

a first gusset member foldably connected to the rectangular member and the first side wall; and

a second gusset member foldably connected to the rectangular member and the second side wall.

37. The lid of claim 33, comprising:

first openings disposed partially in the first side wall and partially in the top wall; and

second openings disposed partially in the second side wall and partially in the top wall.

38. The lid of claim 37, comprising:

first weakening patterns positioned to allow enlargement of the first openings; and

second weakening patterns positioned to allow enlargement of the second openings.

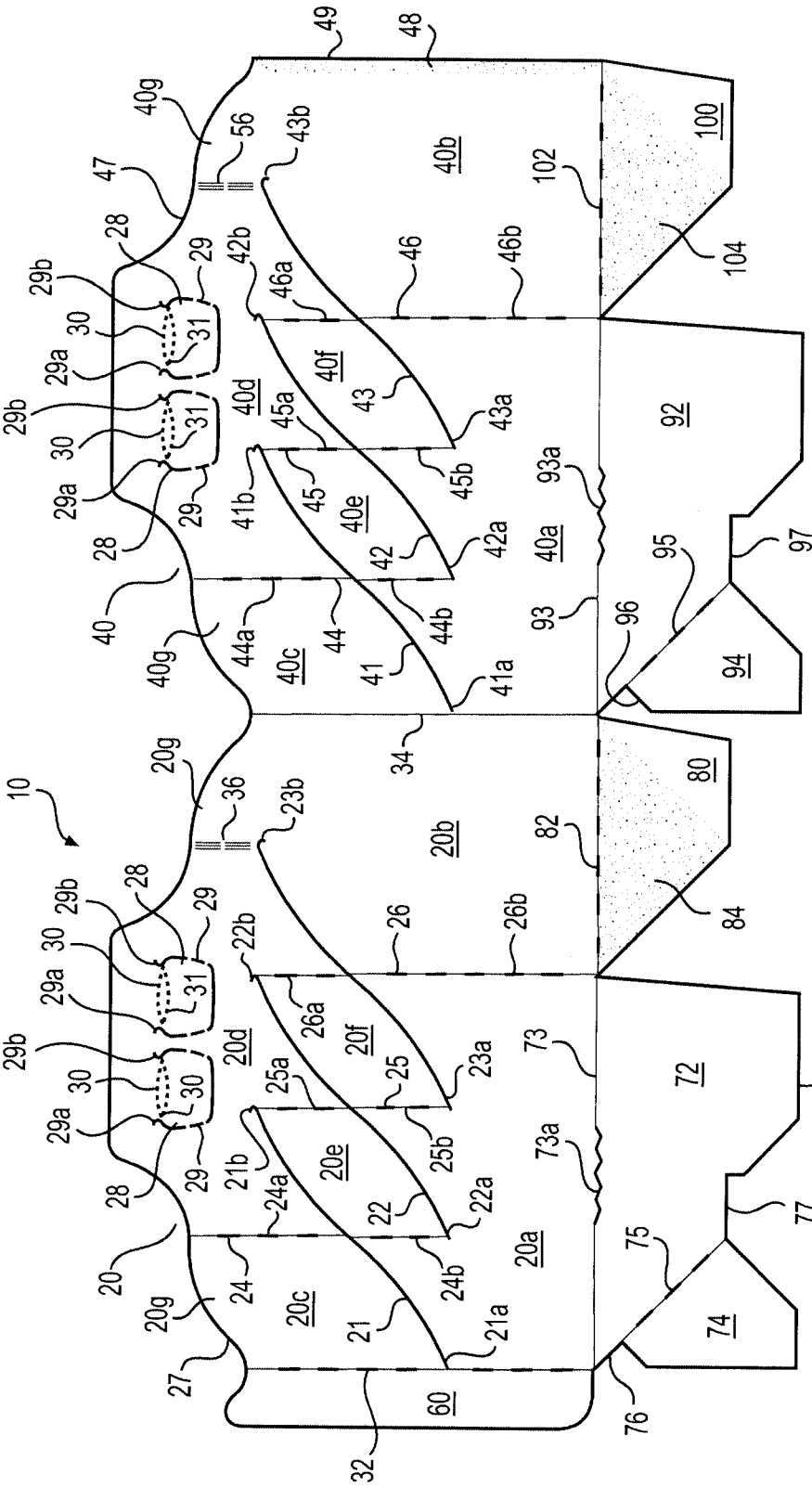
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FIG. 1

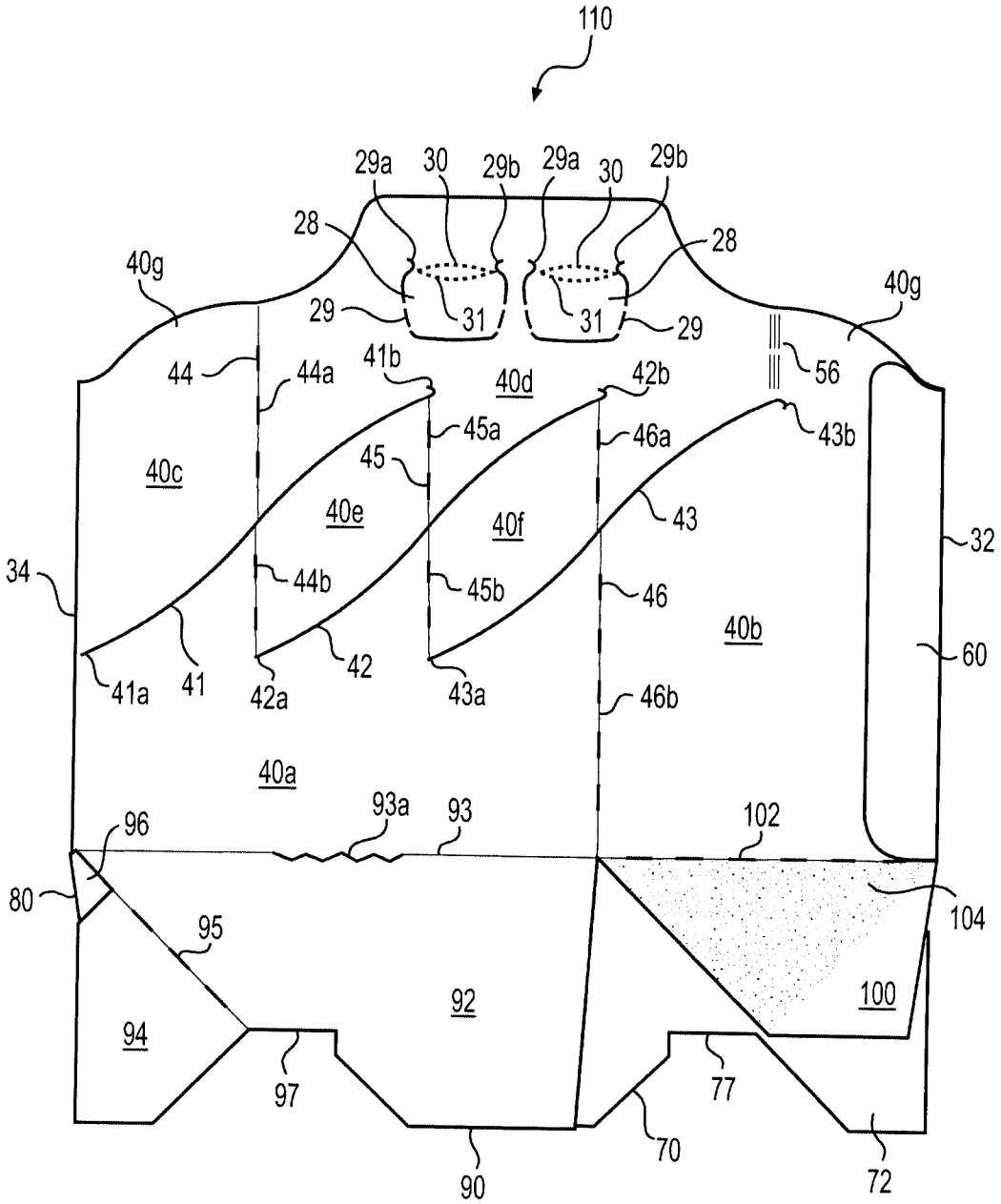
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FIG. 2A

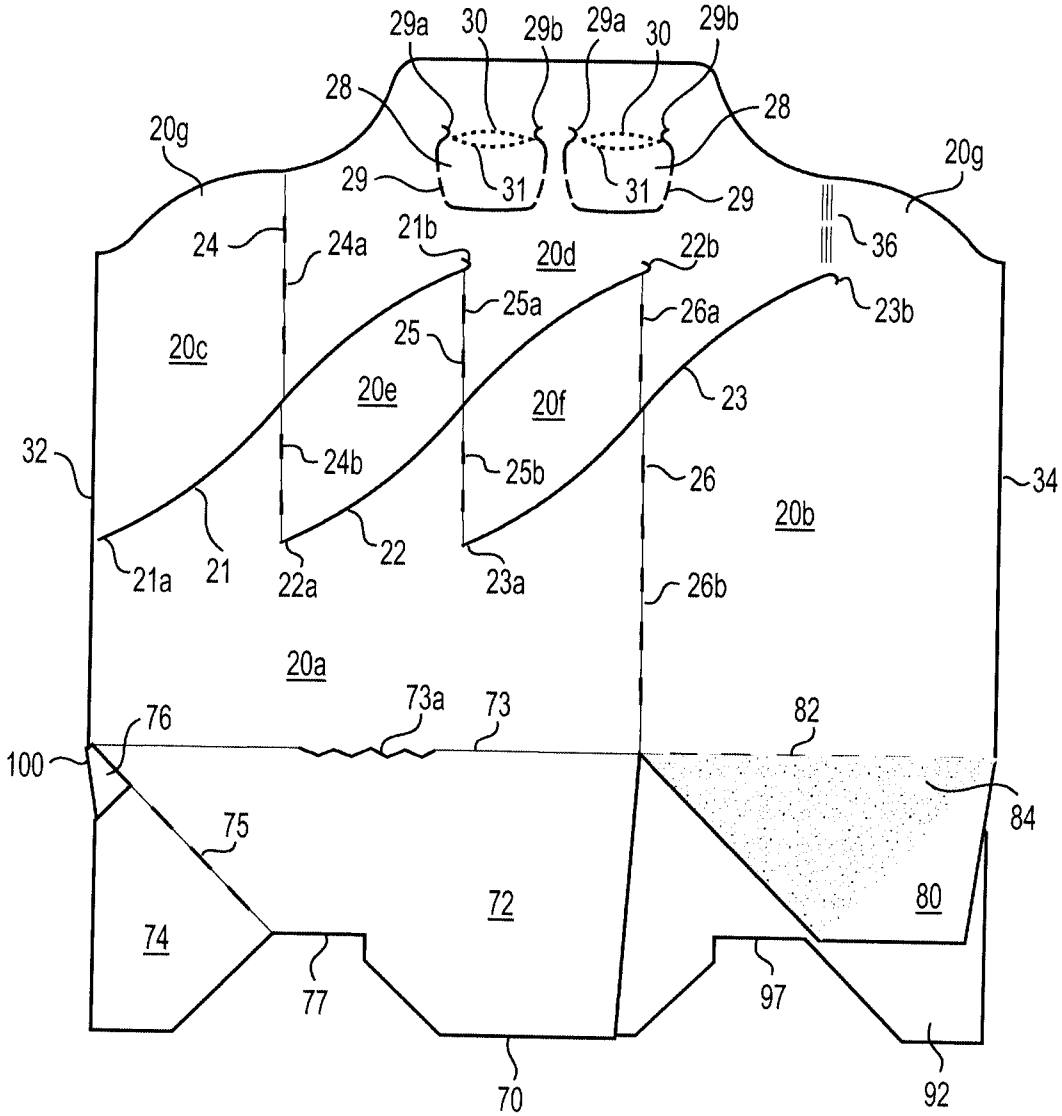
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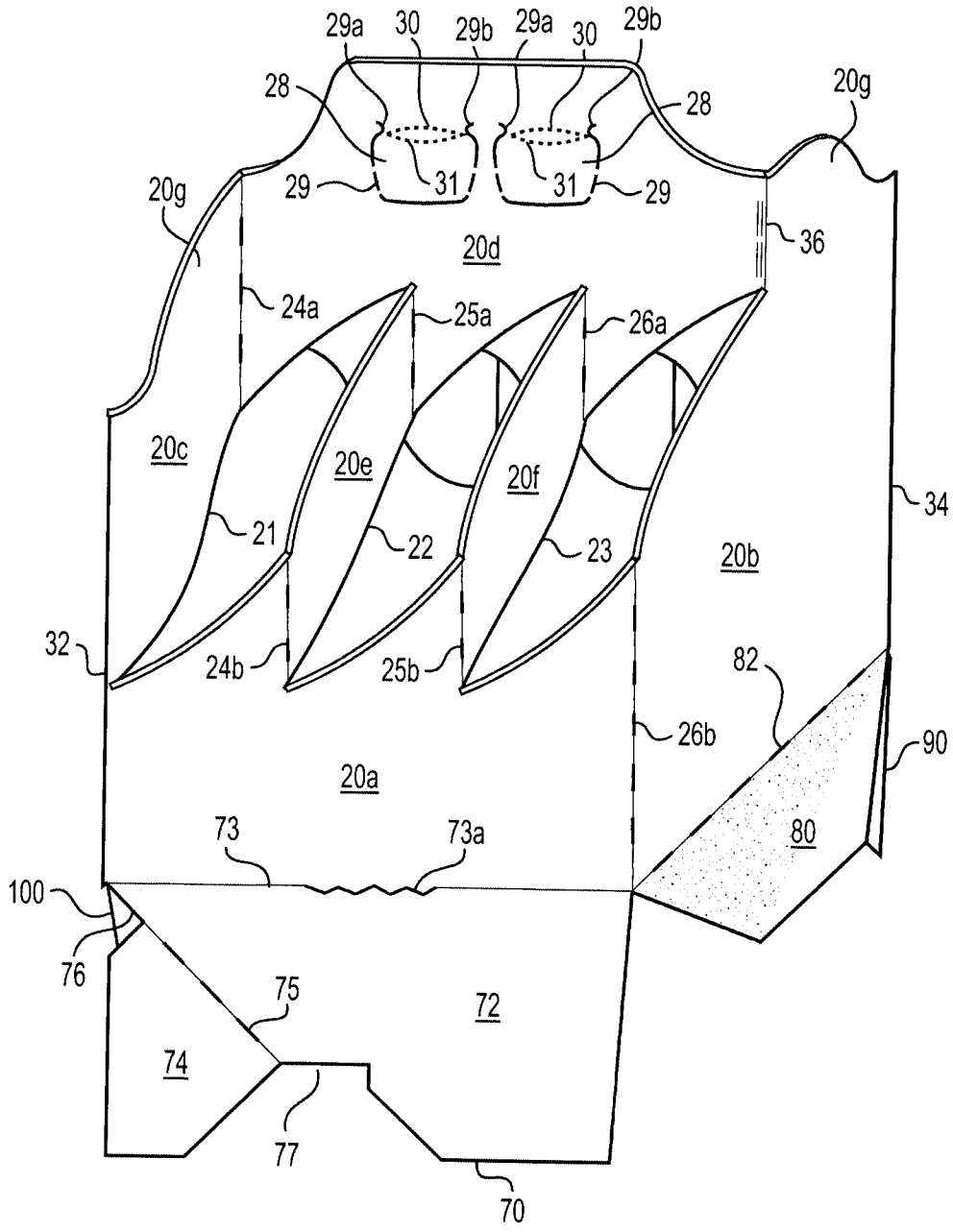
FIG. 2B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20c
20e
20f
34
21
22
23
20b
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24b
25b
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26b
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73a
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100
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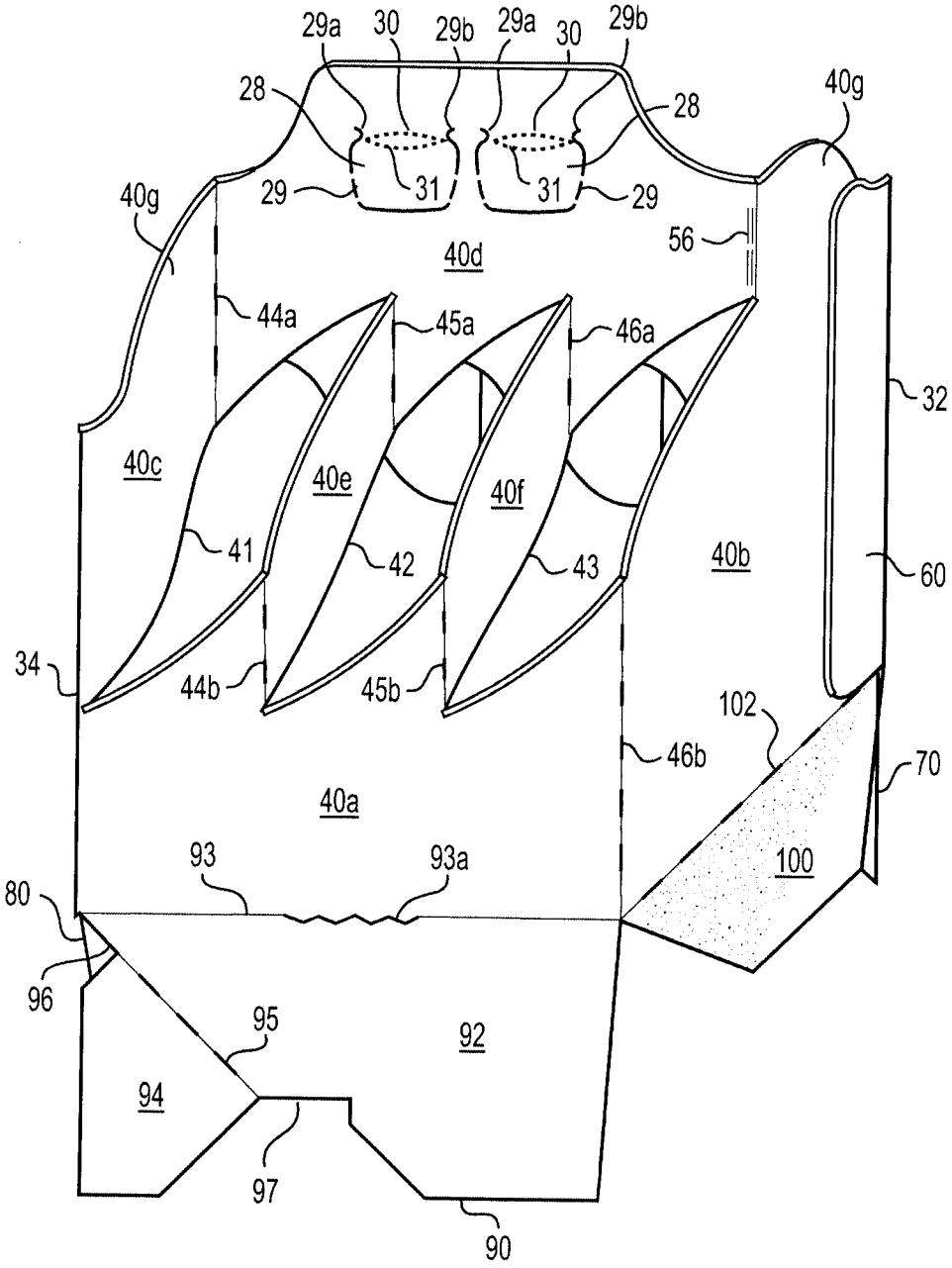
70

FIG. 3A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40c
40e
40f
40b
41
42
43
60
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44b
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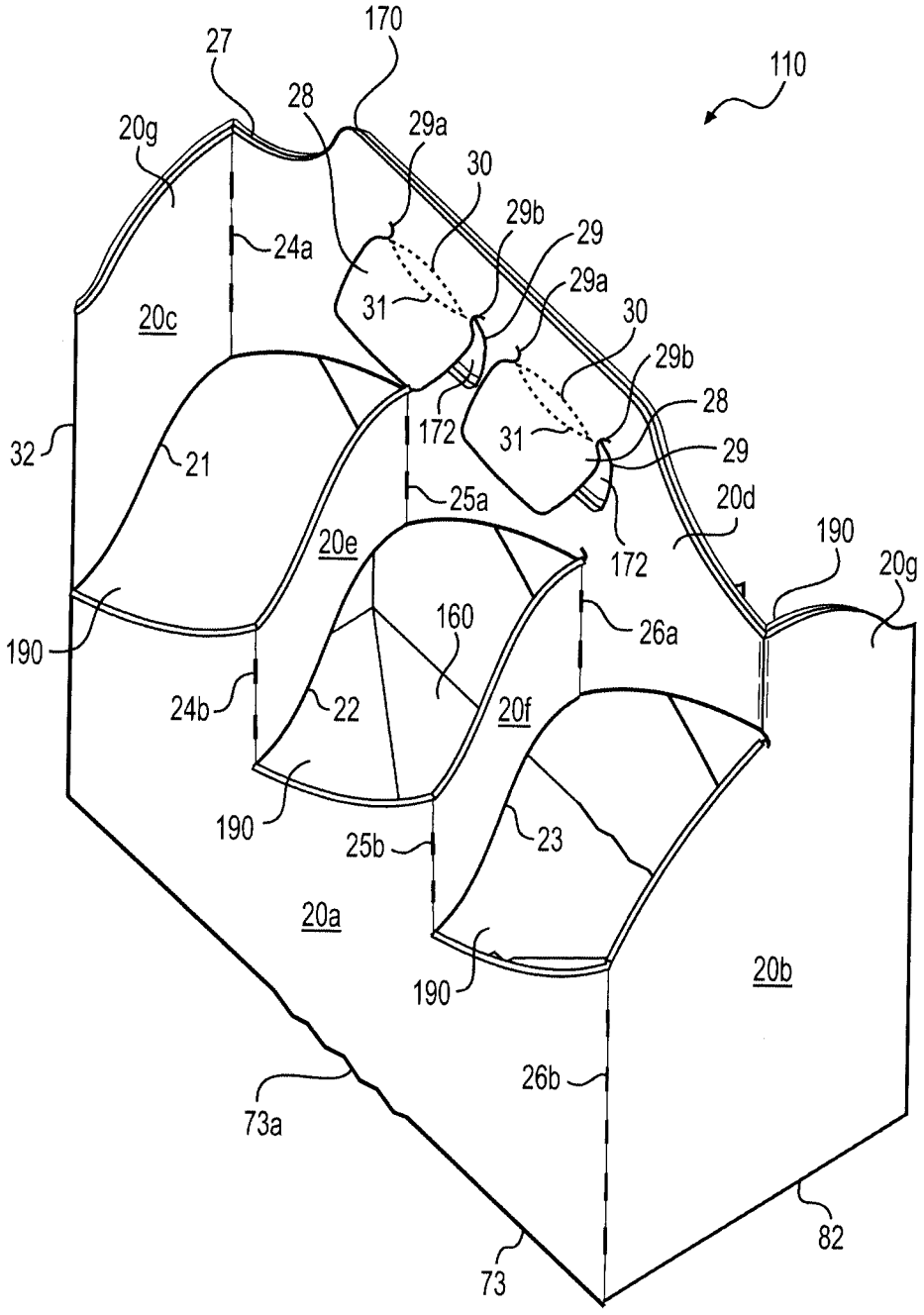
FIG. 3B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32
21
25a
20d
190
20e
172
20g
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23
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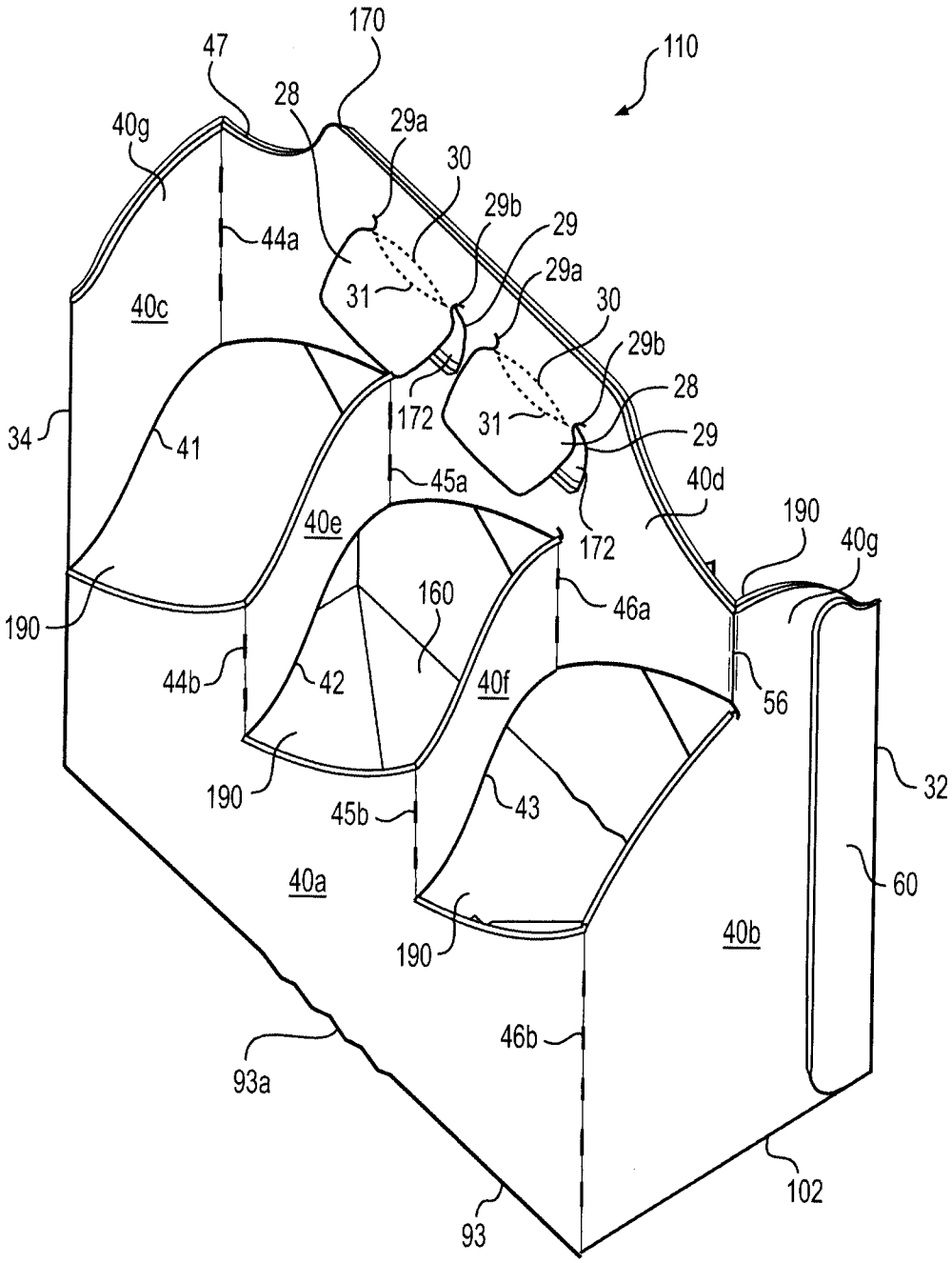
26b
73a
82
73

FIG. 4A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40e
190
40g
172
160
46a
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46b
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102
93

FIG. 4B

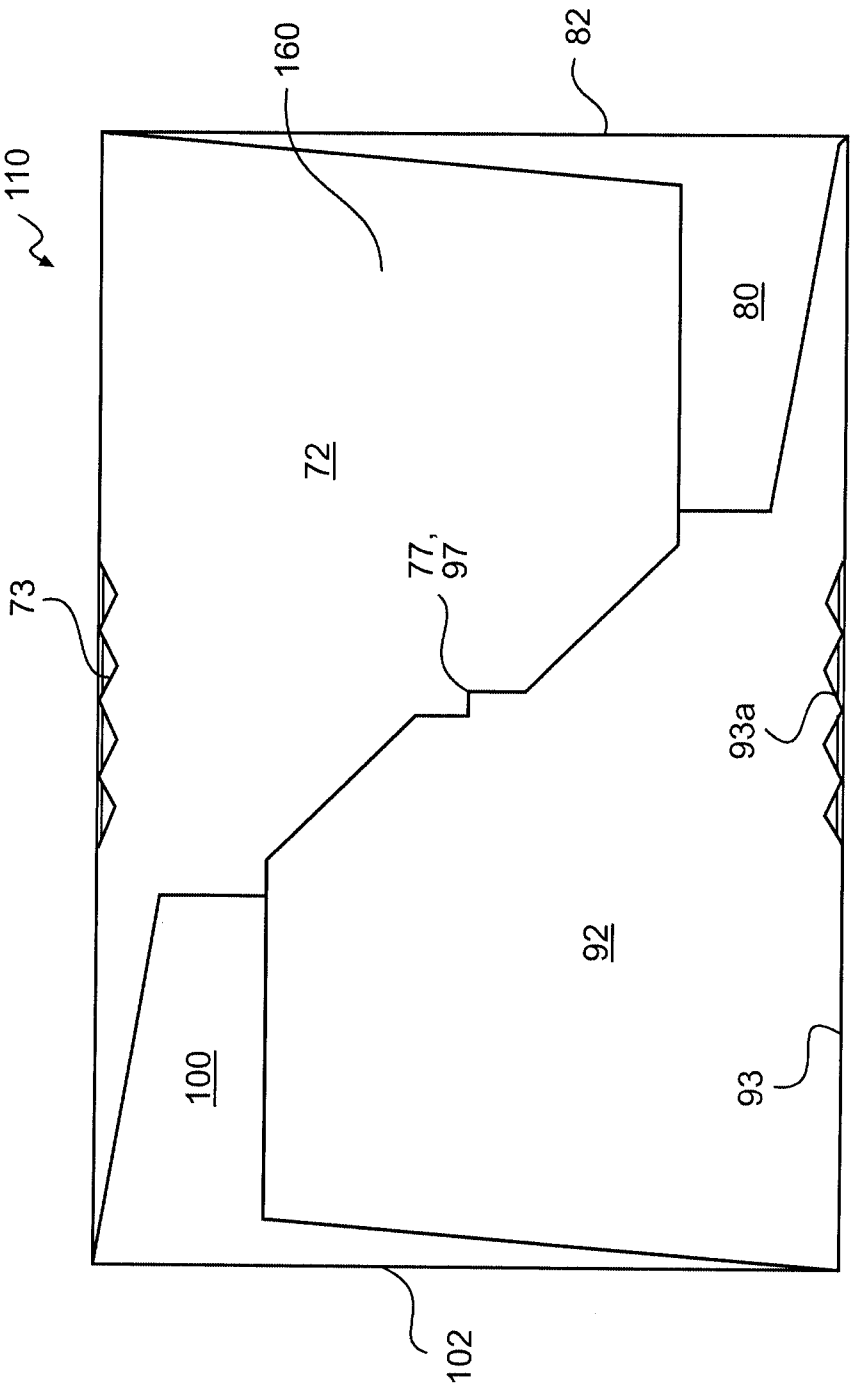


FIG. 4C

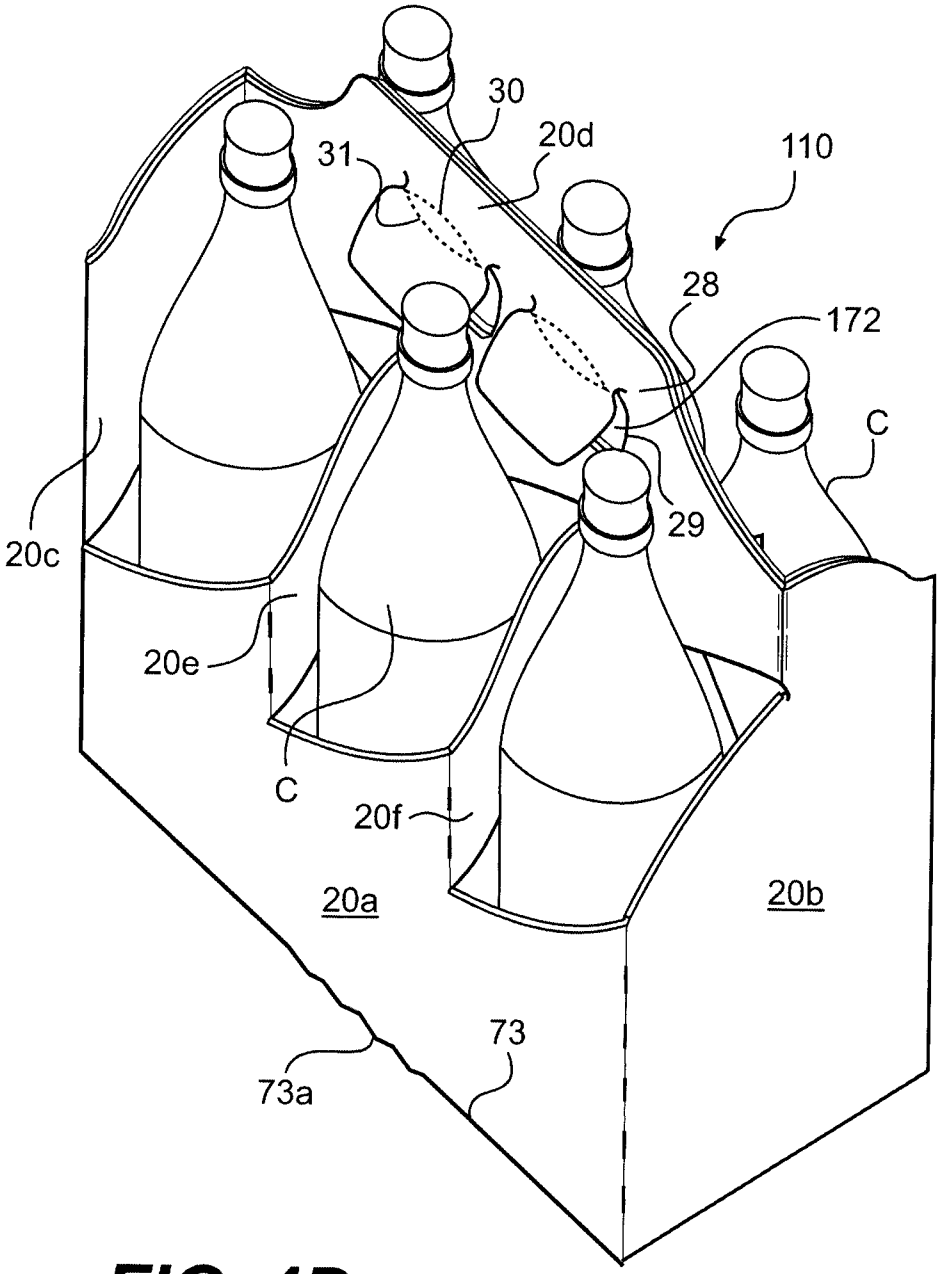
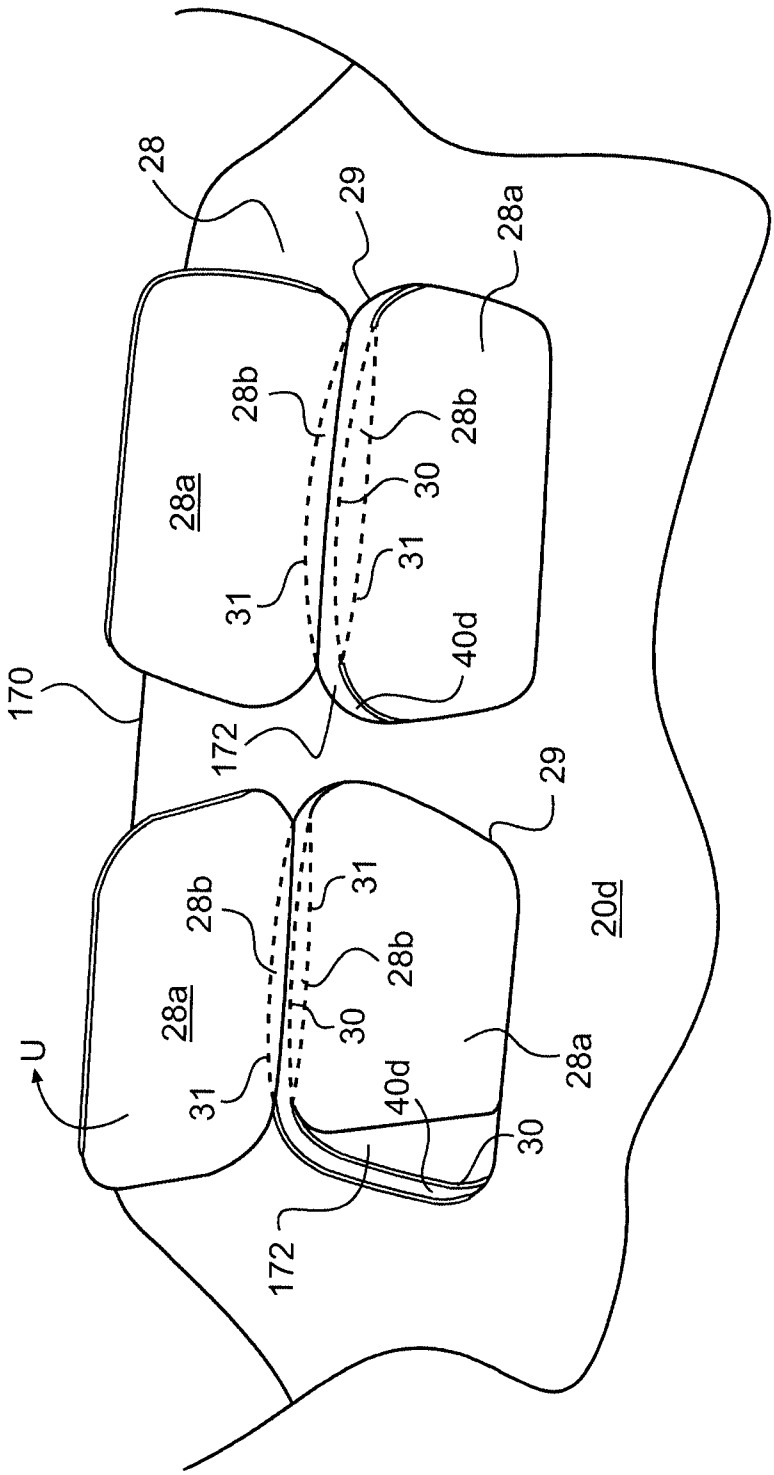


FIG. 4D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172
20d

FIG. 5

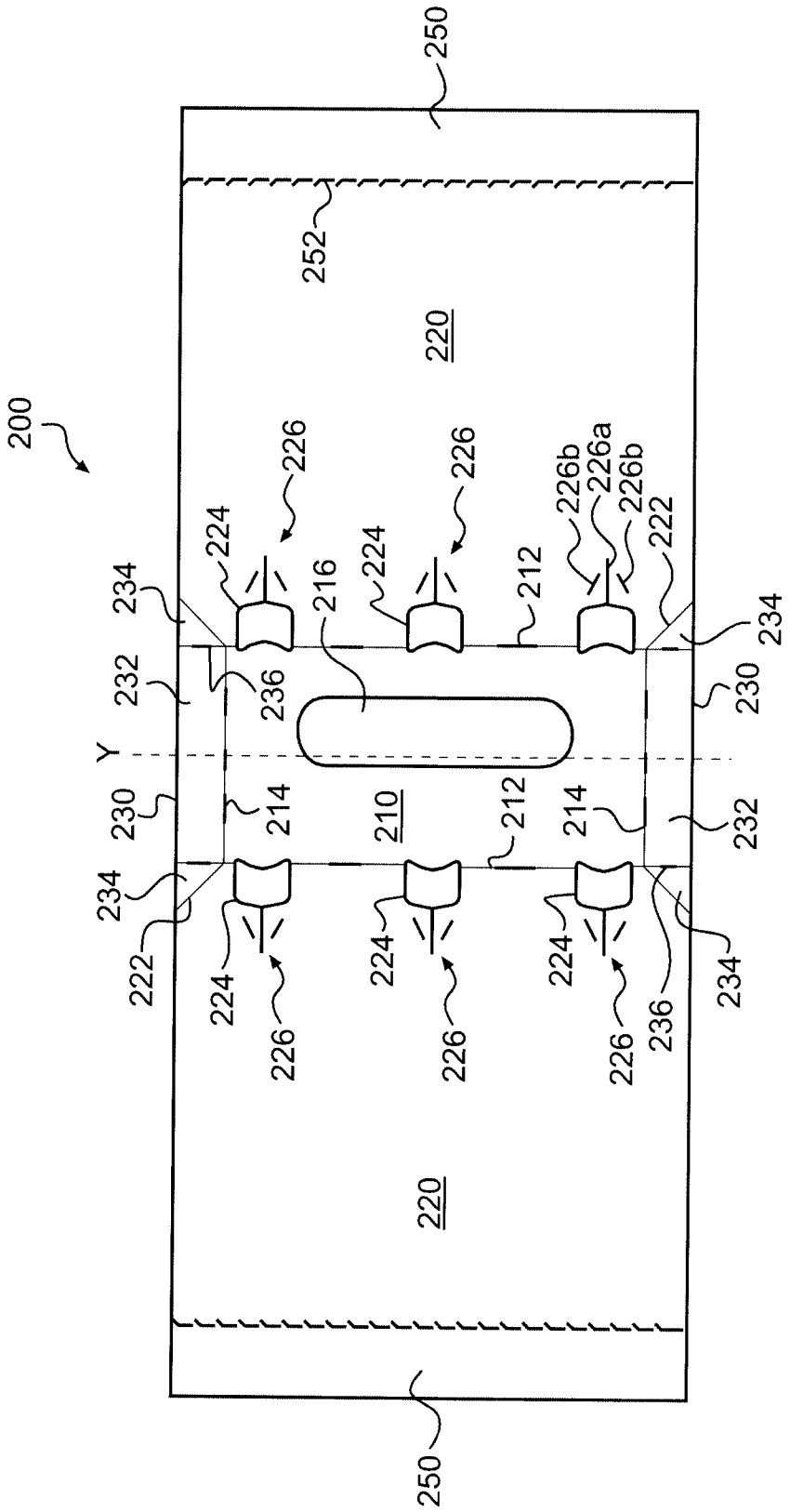
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FIG. 6

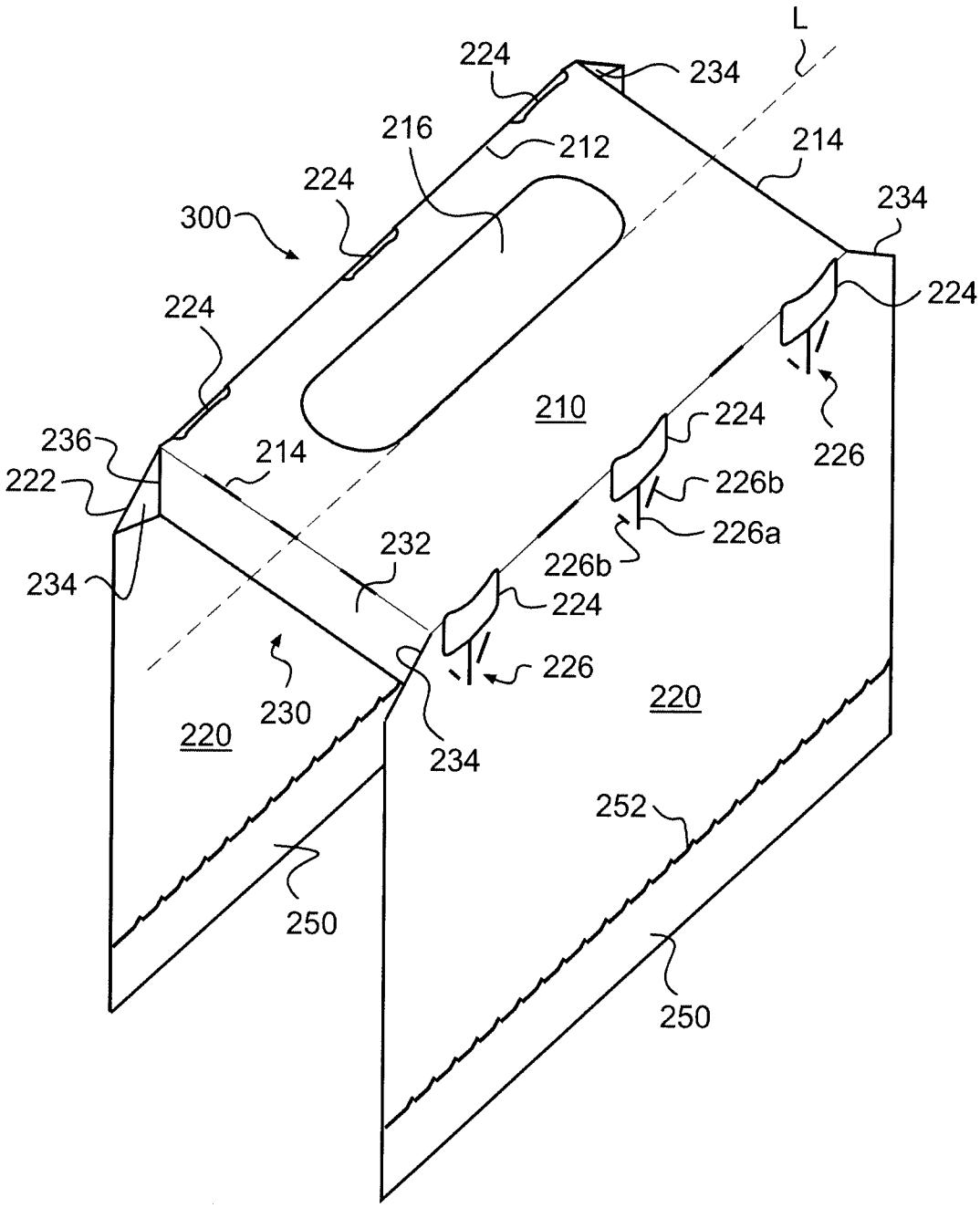
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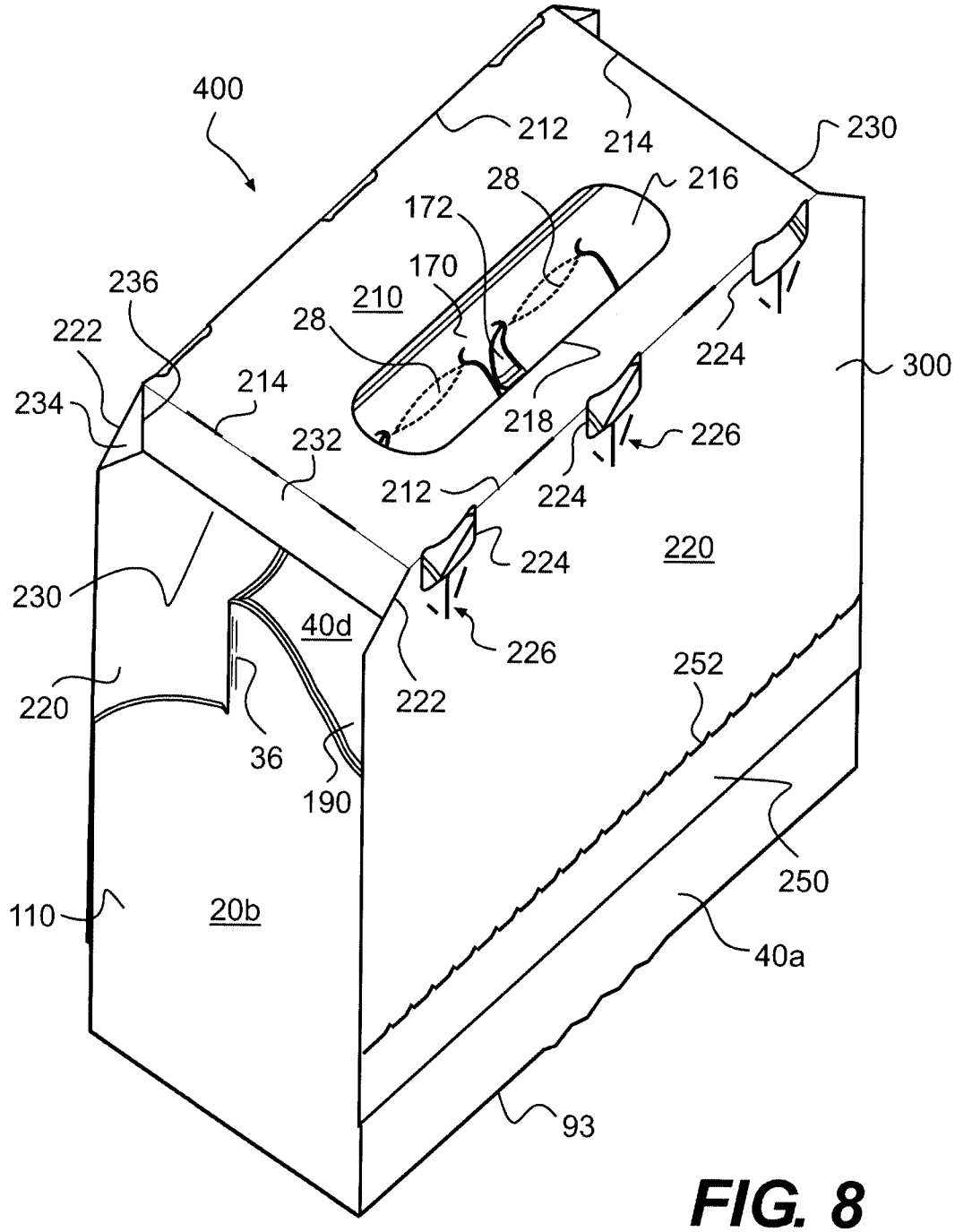
FIG. 7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40d
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222
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190
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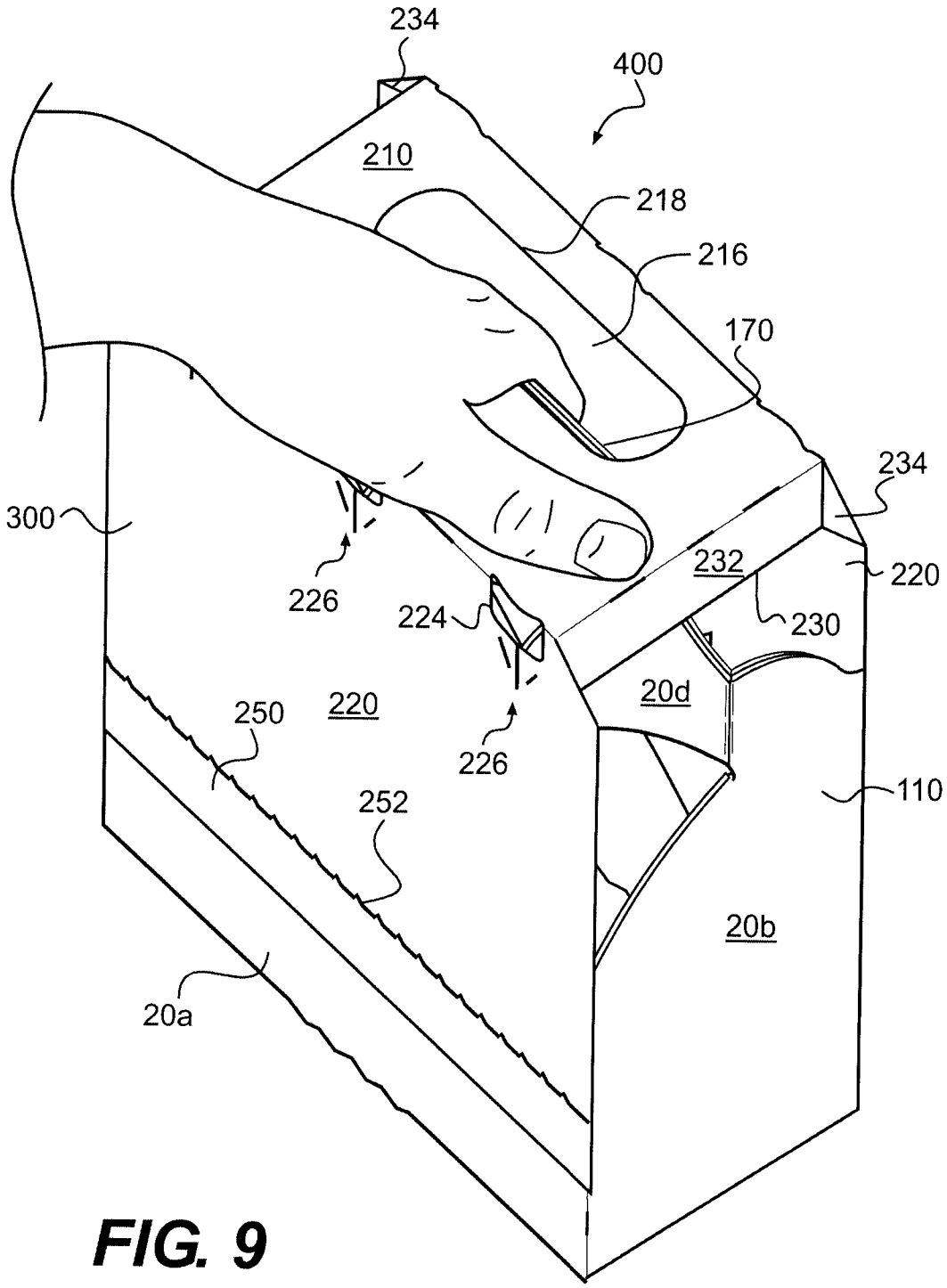
20b
40a
93

FIG. 8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110
252
20b
20a

FIG. 9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/050971

A. CLASSIFICATION OF SUBJECT MATTER

B65D 71/44(2006.01)i, B65D 71/28(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 8: B65D71/00~71/72, B65D75/00~75/70

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models since 1975
Japanese utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKIPASS (KIPO internal) & keywords: "basket", "carrier", "lid", "handle", "pack", "wall" and similar terms

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006-0091024 A1 (E-Z MEDIA, INC.) 4 MAY 2006 See page 1, abstract, lines 1-8; claims 1-16; and figures 1-6.	1-32
A	US 2006-0148629 A1 (E-Z MEDIA, INC.) 6 JULY 2006 See page 1, abstract, lines 1-11; claims 1-7; and figures 1, 3-5, 8-9.	1-32
A	US 2004-0026269 A1 (ANGELO V. CUOMO.) 12 FEBURARY 2004 See page 1, abstract, lines 1-14; claims 1-17; and figures 1-15.	33-38

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 MAY 2008 (23.05.2008)	**23 MAY 2008 (23.05.2008)**

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea
Facsimile No. 82-42-472-7140

Authorized officer
BAEK, On Ki
Telephone No. 82-42-481-5516

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2008/050971

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