

LINED CARTON OF TRIANGULAR CROSS-SECTION

This invention relates to a carton or pack which may be used for a wide variety of purposes.

Many cartons have been used hitherto, which are of square or rectangular cross-sectional shape. Circular-section
5 tubular containers have also been commonly used hitherto, particularly for carrying rolled-up maps or drawings for example. Such circular-section tubular containers suffer the disadvantage that it is often difficult to remove the rolled-up
10 product from the container, either because access to the end of the rolled-up product through the end of the tube is difficult, or because the rolled-up product is retained too tightly by friction against the inner surface of the tube.

I have now devised a carton or pack which is easier to use, for carrying rolled-up products, than the conventional
15 tubular container, but which may also be used, suitably dimensioned, to contain other products.

In accordance with this invention, there is provided a carton or pack of triangular cross-section, said carton or pack being formed from a blank of sheet material which is provided
20 with a series of folds dividing the blank into a plurality of panels, the blank being folded up along successive said fold lines to form an inner lining and a triangular section outer shell around said inner lining.

The carton or pack can accordingly be made from a blank
25 of relatively thin sheet material, but achieve high strength.

Preferably, at least one end of the blank has a triangular end piece projecting therefrom to close the corresponding end of the carton or blank.

Preferably the or each triangular end piece is retained
30 in a closed position, across the corresponding end of the carton or pack, by retainer flaps hinged to the end piece and inserted between said inner lining and outer shell of the carton or pack. This provides a simple yet effective arrangement for closing the end of the carton whilst avoiding
35 the use of adhesive or other means of retention.

Preferably the carton or pack has an end portion which

can be opened by flexing about a fold line extending across a base side of the carton at a position inset from the respective end of the carton.

This carton can be used to contain a rolled-up product
5 without excessive frictional engagement between the product and the inner surfaces of the carton, because the two engage each other only along three discrete lines of contact. Further, by providing an end portion of the carton which can be hinged open, the end of the rolled-up product becomes easily
10 accessible: often, the end of the rolled-up product will extend beyond the end of the main portion of the carton; in any event, there is space at the vertices of the carton for the user to insert his fingers and grip the rolled-up product to withdraw it.

15 Preferably the two sides of the carton are equal, so that its cross-sectional shape is that of an isosceles triangle. The two sides and the base may all be equal to one another, so that the carton cross-sectional shape is that of an equilateral triangle. Alternatively, the two sides and the
20 base may be tapered such that one end of the carton or pack is wider than the opposite end.

Preferably the inner lining projects beyond the end of the outer shell at the end of the main portion of the carton. Accordingly, the hinged end portion of the carton frictionally
25 engages over the projecting end of the inner lining, when this end portion is closed, to hold the latter in its closed position. Preferably the end of the outer shell inclines from the hinge line to the apex opposite the hinged base, away from the end of the carton.

30 Also in accordance with this invention, there is provided a carton or pack of triangular cross-section comprising a base and two sides, the carton or pack being formed from a blank which is provided with a series of folds dividing the blank into a plurality of panels, the blank being
35 folded up along successive fold lines, and the carton having an end portion which can be opened by flexing about a fold line extending across said base at a position inset from the end of the carton.

The carton or pack may be formed from a one-piece blank

of sheet material, for example card. Instead, the carton or pack may be formed from a blank which comprises two or more pieces of sheet material joined end-to-end. This provides for modular construction, in which the carton can be made to a
5 selected or extended length, by joining in one or more extension pieces between opposite end pieces. This overcomes problems which arise where particularly long articles are to be packaged.

Thus, further in accordance with this invention, there
10 is provided a carton or pack which is formed from a blank of sheet material, said blank comprising two or more pieces of sheet material joined together end-to-end.

Embodiments of this invention will now be described, by way of examples only and with reference to the accompanying
15 drawings, in which:

FIGURE 1 is an isometric view of a first embodiment of carton or pack in accordance with this invention;

FIGURE 2 is a side view, on enlarged scale, of one end portion of the carton of Figure 1;

20 FIGURE 3 is a plan view of an end of a one-piece blank from which the carton of Figures 1 and 2 is formed;

FIGURE 4 is a plan view of the opposite end of the blank from which the carton of Figures 1 and 2 is formed;

FIGURE 5 is a perspective view showing an end of the
25 carton after the blank of Figures 3 and 4 has been partly folded over;

FIGURE 6 is a similar view showing the same end of the carton after the blank has been fully folded but before its respective end piece has been closed across the end of the
30 carton;

FIGURE 7 is a plan view of one piece of a blank, to form one end of a second embodiment of carton;

FIGURE 8 is a plan view of a second piece of a blank, to form the opposite end of the second embodiment of carton;
35 and

FIGURE 9 is a plan view of an extension piece to form an extension of the second embodiment of carton.

Referring to Figures 1 and 2 of the drawings, there is shown a tubular carton or pack which is formed from a one-piece

blank of card or other sheet material, and is triangular in cross-section. The example shown is relatively long and small in cross-section, suiting it to receive a rolled up paper product such as a map or drawings, but in general the carton
5 can be made to any required size or ratio of length to cross-section, for accommodating any desired product or products. In addition, the carton may be tapered towards one end for certain packaging requirements.

The two extreme ends of the carton are closed, but at
10 one end the carton has a relatively short portion 5 which is arranged to hinge open, as shown in Figure 2, along a fold line extending across the base of the carton, enabling easy access to the product (in this case a rolled-up map or drawing 6) which is stored within the carton. It will be noted that the
15 carton comprises an outer shell 20 and an inner lining 10, with the inner lining 10 projecting beyond the end of the main part of the outer shell 20: when the end portion 5 of the carton is hinged into the closed position, the inner surfaces of the two sides of the end portion frictionally engage the two sides
20 of the projecting portion of the inner lining 10, to hold the end portion 5 of the carton in the closed position. In order to assist this, two tabs 7 are formed from the inner lining, and project at the apex opposite the hinged base of the carton, to frictionally engage the inner surfaces of the hinged end
25 portion 5: instead, other elements may be pressed or bent out of the end portion 5 and/or the projecting portion of the inner lining 10, to interengage when the end portion 5 of the carton is closed.

The construction of the carton will now be explained in
30 more detail with reference to Figures 3 to 6 of the drawings. Figures 3 and 4 show a one-piece blank, cut from card or other sheet material, from which the carton is formed. The blank is divided, in the example shown, by parallel fold lines 9 into six rectangular panels 11,12,13 and 21,22,23. In constructing
35 the carton from the blank, firstly the first three panels 11,12,13 are folded over to form the triangular inner lining 10, tabs 14a being provided on the edge of the first panel to locate in slots 14b along the fold line between the third and fourth panels: the configuration shown in Figure 5 is thus

achieved. Then the remaining three panels 21,22,23 are folded around the inner lining 10 to form the outer shell 20 of the carton, the configuration then being as shown in Figure 6.

At each end of the blank, triangular closure flaps 15 project from the ends of the first two panels 11,12 and are folded across the end of the inner lining 10 to close the latter as shown in Figure 6. Also at each end of the blank, a triangular end piece 24 projects from the end of the final panel 23: retainer flaps 25 project from the sides of each triangular end piece 24. Referring to Figure 6, once the outer shell 20 has been folded around the inner lining 10 and the closure flaps 15 have been folded across the end of the inner lining 10, the triangular end piece 24 is folded over the pair of closure flaps 15 and, in so doing, its retainer flaps 25 are inserted between the inner lining 10 and outer shell 20, at respective sides of the carton. Short slits 16 are formed along the hinge lines of closure flaps 15, so that the adjacent portion of each flap 15 forms a small tab which engages in a similar slit 26 formed along the hinge line of the respective retainer flap 25 when the latter is inserted between the inner lining 10 and outer shell 20 of the carton, so locking the triangular end piece 24 in its closed position (shown in Figure 1).

It will be noted that, at each end of the blank shown in Figures 3 and 4, the fold lines between the first two panels 11,12 and their closure flaps 15, and also the end edge of the third panel 13, are all slightly inset from the end edges of the fourth and fifth panels 21,22. Accordingly, the end of the inner lining 10, which is formed by the first three panels 11,12,13, is slightly inset from the end of the outer shell 20, as defined by its two side panels 21 and 22: the fold line between the final panel 23 and the triangular end piece 24 is also slightly inset from the end edge of the panels 21 and 22, so that when the end piece 24 is folded across the end of the carton, its outer surface lies flush with the end of the outer shell 20.

Referring to Figure 4, fold lines 33 and 36 are formed across the third and final panels 13 and 23, which correspond, respectively, to the base of the inner lining 10 and the base

of the outer shell 20: the fold lines 33,36 coincide when the blank is fully folded up, to form the hinge between the main length of the carton and its openable end portion 5 (Figures 1 and 2). The blank is cut along two lines 31,34: lines 31 forms a division, in the two sides of the inner lining 10, between the main length of the carton and its openable end portion 5; the other line 34 forms a division, in the two sides of the outer shell 20, between the main length of the carton and its openable end portion 5. Line 31 has its opposite ends aligned with the fold lines 33,36, but follows a path lying closer than these fold lines to the adjacent end of the blank, the path being symmetrical about the fold between the first and second panels 11,12. Accordingly, and as shown in Figure 2, the end of the inner lining 10 curves away from the hinge line and then curves back towards the apex opposite the hinged base. Line 34 also has its opposite ends aligned with the fold lines 33,36 but follows a path lying further than these fold lines from the end of the blank, the path being symmetrical about the fold between the fourth and fifth panels 21,22 of the blank. Accordingly, and as shown in Figures 1 and 2, the end of the main length of the outer shell 20 of the carton follows a line which is inclined, from the hinge line to the apex opposite the hinged base, away from the adjacent end of the carton. Whilst in the example shown this line follows a particular curved line, it may in general follow alternative profiles; for example, it may follow a straight line.

Also in Figure 4, it will be noted that one of the tabs 14a extends across the end of the cut line 31, and this cut line does not extend through the tab: accordingly, this tab holds the main and end portions of the panel 11 together as panels 11,12 and 13 are folded over to form the inner lining 10. A line 35 is cut at the fold line 9 between panels 11 and 12, to form the tabs 7 which project from the apex of the inner lining 10, as shown in Figure 2, for frictional engagement with the end portion 5 of the carton. Preferably as shown in Figure 4, as a security feature the cut line 34 is interrupted e.g. at 34a, so that when the blank is folded up to form the carton, the end portion 5 is retained in its closed position until, by a slight snapping motion to open the end portion 5, the outer

shell is torn across these interruptions.

As previously mentioned, there are occasions in which it is desirable to form a carton of selected or extended length. Figures 7 to 9 show separate pieces for forming a carton of modular construction, to a selected length. Thus, Figures 7 and 8 show pieces for forming the two opposite ends of a carton blank: in essence, the blank differs from the one-piece blank of Figures 3 and 4 in that it comprises two or more pieces to be joined together end-to-end before folding up the blank to form the carton. However, if a carton of extended length is required, then the pieces of Figures 7 and 8 are joined to opposite ends of the extension piece shown in Figure 9: it will be appreciated that two or more of these extension pieces may be joined end-to-end and then the respective end pieces of Figures 8 and 9 are joined on.

The end piece of Figure 7 has a join edge 40 extending straight across the panels 21,22,23 and a join edge 41 extending straight across the panels 11,12 but further from the end edge of the piece than the join edge 40: join edges 40,41 are interconnected by an inclined join edge 42 across the panel 13. The opposite end piece of Figure 8 has complementary join edges 50,51,52. Tabs 54,55 project from the join edges 51,52 of the end piece of Figure 8, and are arranged to engage in complementary cut-outs 44,45 formed in the join edges 41,42 of the end piece of Figure 7.

Thus, the opposite end pieces of Figure 7 to 8 can be joined, to form the carton blank, by bringing their respective join edges 40,41,42 and 50,51,52 into alignment and engaging the tabs 54,55 into the cut-outs 44,45. The carton blank can then be folded up in the manner described with reference to Figures 5 and 6: it will be appreciated that the panels 21,22,23 of the end piece of Figure 7 will overlie the join between the respective portions of the inner-shell panels 10,11,12, and so prevent disengagement of the tabs 54,55 from their cut-outs 44,45. The outer edge of the final panel 23 is provided with projecting tabs 56 which are arranged to be passed through slots 57 in the fold line between the panels 13,21, to hold the outer edge of the panel 23 flat: the tabs 56 locate in complementary-shaped cut-outs 58 in the free edge

of the panel 11, so as to lie flat within the wall thickness of the inner shell.

It will be noted that the extension piece of Figure 9 has, at one end, a join edge 60,61,62 and cut-outs 64,65
5 corresponding to the join edge 40,41,42 and cut-outs 44,45 of the end piece of Figure 7: at its other end, the extension piece of Figure 9 has a join edge 70,71,72 and tabs 74,75 corresponding to the join edge 50,51,52 and tabs 54,55 of the end piece of Figure 8. Thus, the extension piece of Figure 9
10 may have the end piece of Figure 8 joined to its first end and the end piece of Figure 7 joined to its other end.

While this invention has been described in terms of a tubular carton or pack of equal triangular cross-section along the entire length thereof, it will be appreciated that the
15 carton may be tapered such that one end thereof is wider than its opposite end. Alternatively one end of the carton may be tapered to a point. Preferably the wider end is the end which is arranged to open.

CLAIMS

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- 1) A carton or pack of triangular cross-section, said carton or pack being formed from a blank of sheet material which is provided with a series of folds dividing the blank into a plurality of panels, the blank being folded up along successive said fold lines to form an inner lining and a triangular section outer shell around said inner lining.
- 2) A carton or pack as claimed in claim 1, in which at least one end of the blank has a triangular end piece projecting therefrom to close the corresponding end of the carton or blank.
- 3) A carton or blank as claimed in claim 2, wherein the or each triangular end piece is retained in a closed position, across the corresponding end of the carton or pack, by retainer flaps hinged to the end piece and inserted between said inner lining and outer shell of the carton or pack.
- 4) A carton or pack as claimed in any preceding claim, having a base and two sides, and an end portion which can be opened by flexing about a fold line extending across said base at a position inset from the respective end of the carton.
- 5) A carton or pack as claimed in claim 4, in which said inner lining projects beyond the end of the outer shell at the end of the main portion of the carton or pack.
- 6) A carton or pack as claimed in claim 5, in which the end of said outer shell inclines from the fold line to the apex opposite said base of the carton, away from the respective end of the carton or pack.
- 7) A carton or pack as claimed in any preceding claim, in which said fold lines of said blank are parallel and said panels of the blank are rectangular.

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- 8) A carton or pack as claimed in any one of claims 1 to 6, in which said panels of said blank taper towards one end of the blank.
- 9) A carton or pack as claimed in any preceding claim, in which said blank is formed with tabs on a free edge of a first said panel of said inner lining, to locate in slots along the fold line between two other said panels.
- 10) A carton or pack as claimed in any preceding claim, in which said blank is formed with tabs on a free edge of a final panel of said outer shell, for insertion through slots formed in a fold line between two other said panels.
- 11) A carton or pack as claimed in any preceding claim, in which said blank comprises one piece of sheet material.
- 12) A carton or pack as claimed in any one of claims 1 to 10, in which said blank comprises two or more pieces of sheet material joined end-to-end along complementary end edges.
- 13) A carton or pack as claimed in claim 12, in which adjacent pieces of said blank are joined by tabs projecting from one piece being engaged in complementary cut-outs formed in the adjacent piece.
- 14) A carton or pack as claimed in claim 13, in which said complementary tabs and cut-outs are formed in said panels of the inner lining, and the join edges of the panels of the outer shell are offset from the join edges of the inner lining so that the panels of the outer shell of one piece overlies the join in the inner lining.
- 15) A carton or pack as claimed in any preceding claim, in which the material of said blank is card.
- 16) A carton or pack of triangular cross-section comprising a base and two sides, the carton or pack being formed from a blank which is provided with a series of folds dividing the

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blank into a plurality of panels, the blank being folded up along successive fold lines, and the carton having an end portion which can be opened by flexing about a fold line extending across said base at a position inset from the end of
5 the carton.

17) A carton or pack as claimed in claim 16, comprising an outer shell and an inner lining, said inner lining projecting beyond the end of the outer shell at the end of the main portion of the carton or pack.

10 18) A carton or pack which is formed from a blank of sheet material, said blank comprising two or more pieces of sheet material joined together end-to-end.

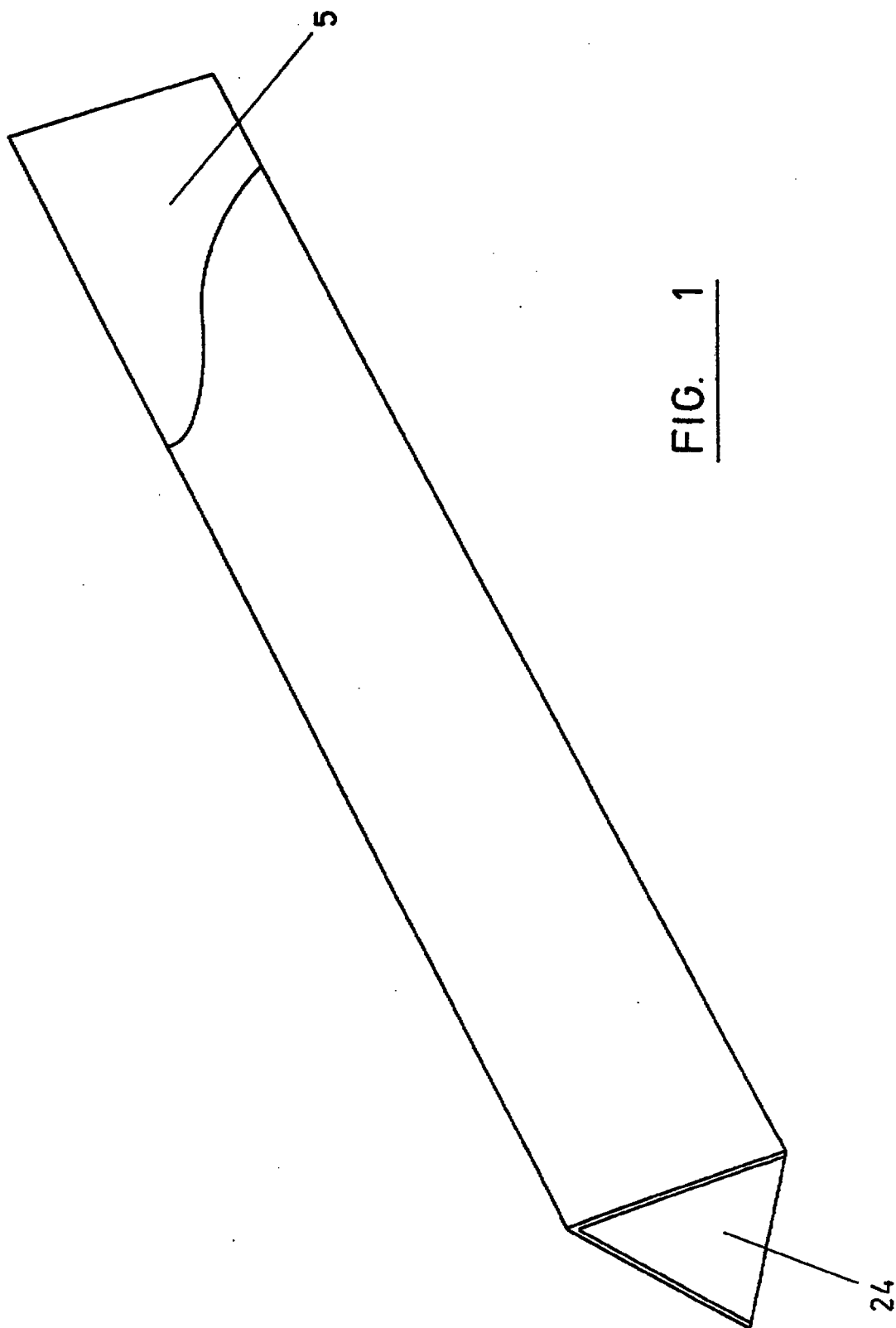
19) A carton or pack as claimed in claim 18, in which adjacent pieces of said blank are joined by tabs projecting
15 from one piece being engaged in complementary cut-outs formed in the adjacent piece.

20) A carton or pack as claimed in claim 19, in which said blank forms an inner lining and an outer shell wrapped around said inner lining, said complementary tabs and cut-outs being
20 formed in the inner lining and offset from the join edges of the outer shell such that the outer shell of one said piece overlies the join in the inner lining.

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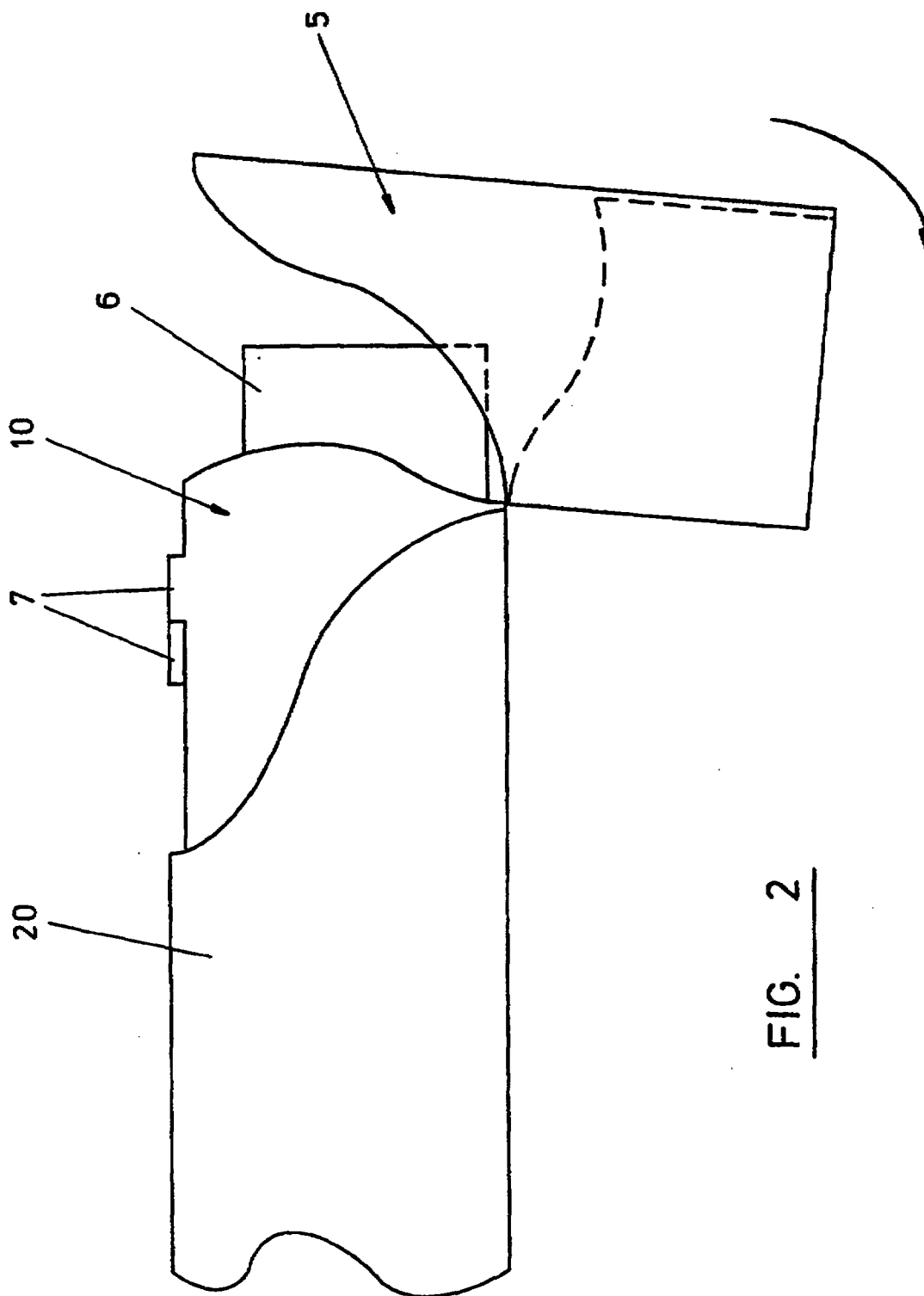


FIG. 2

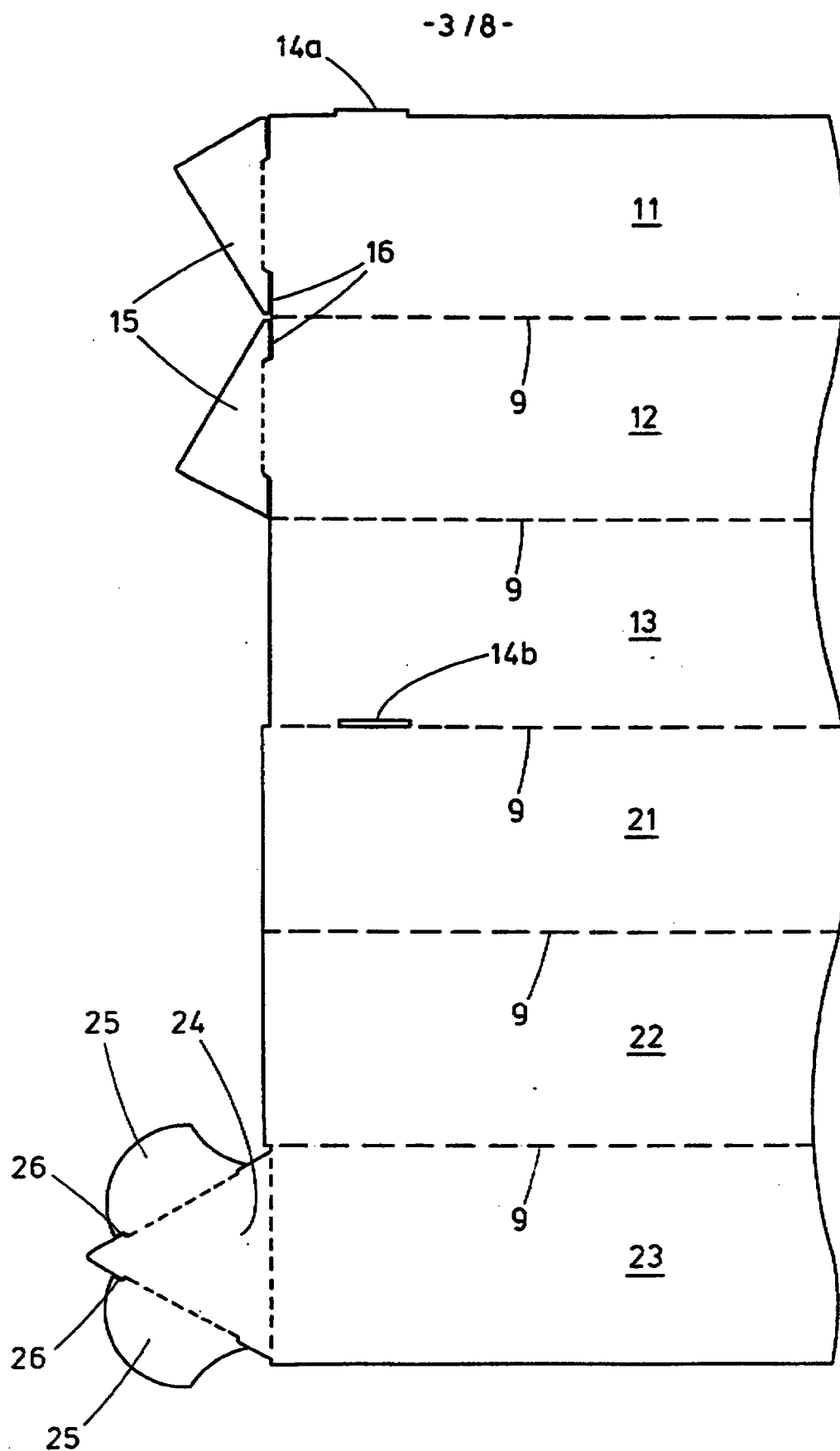


FIG. 3

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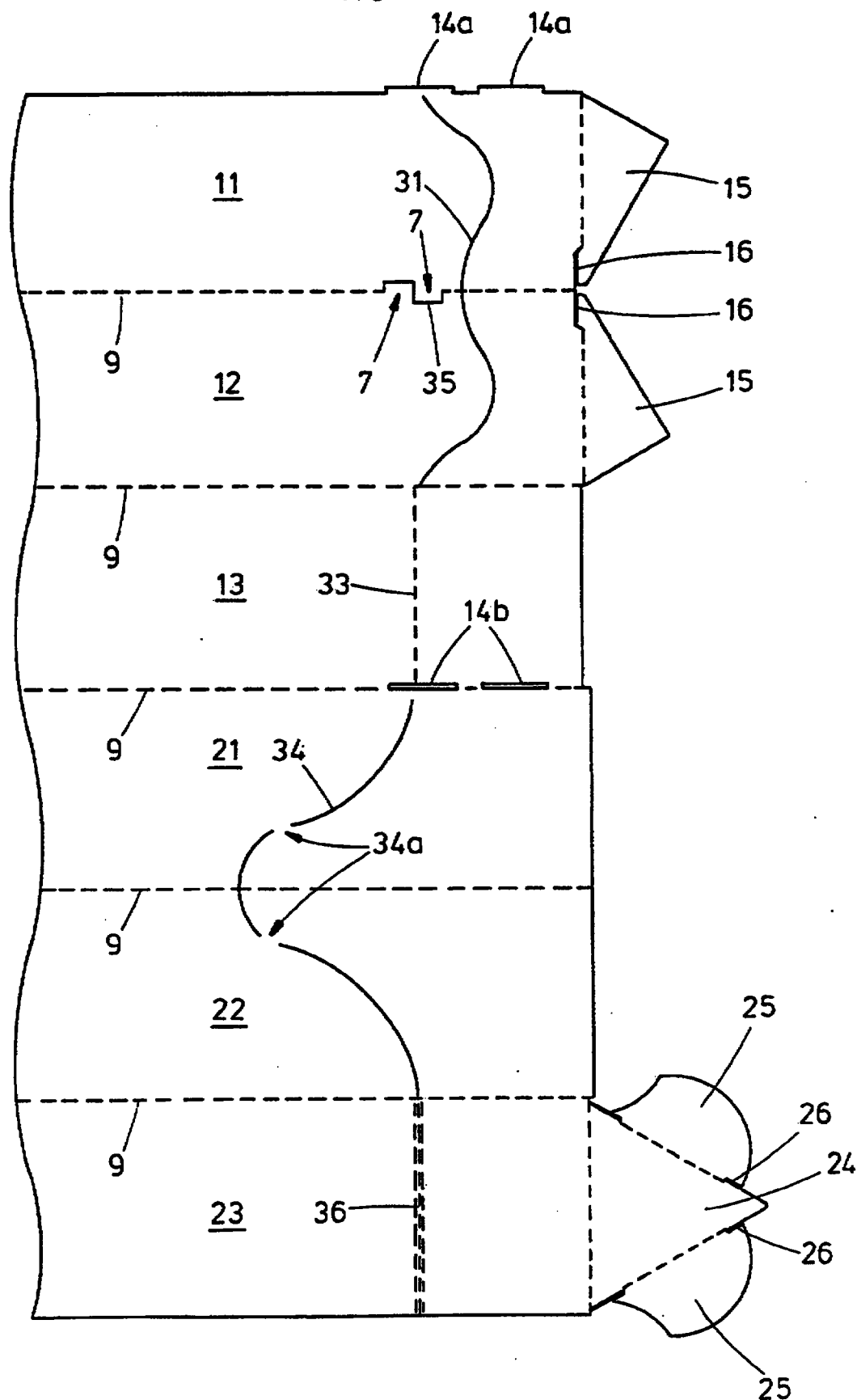


FIG. 4

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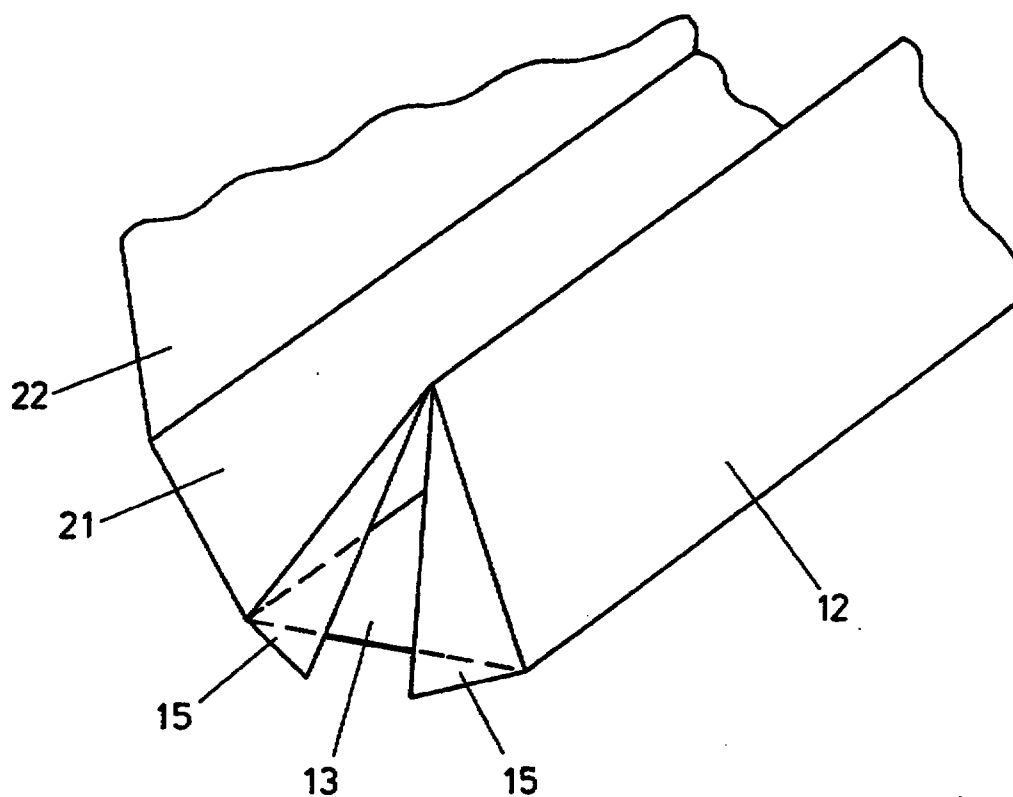


FIG. 5

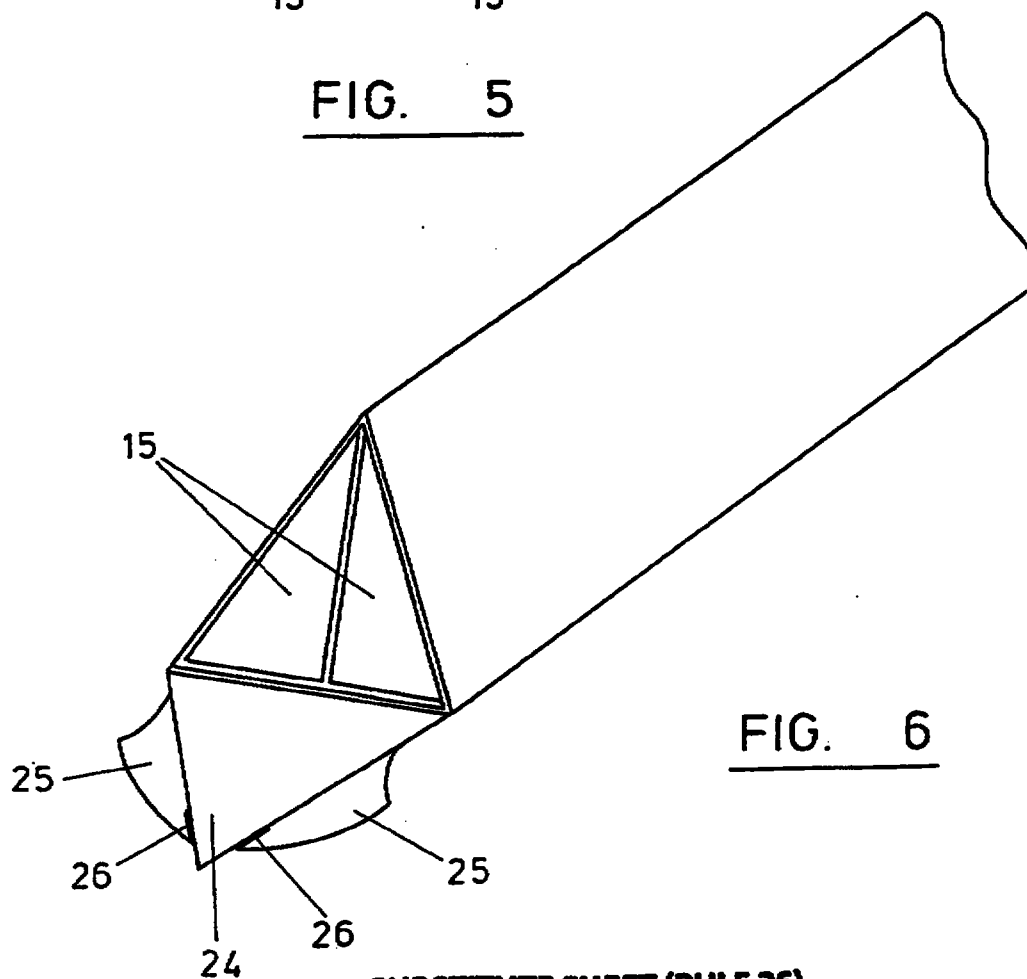


FIG. 6

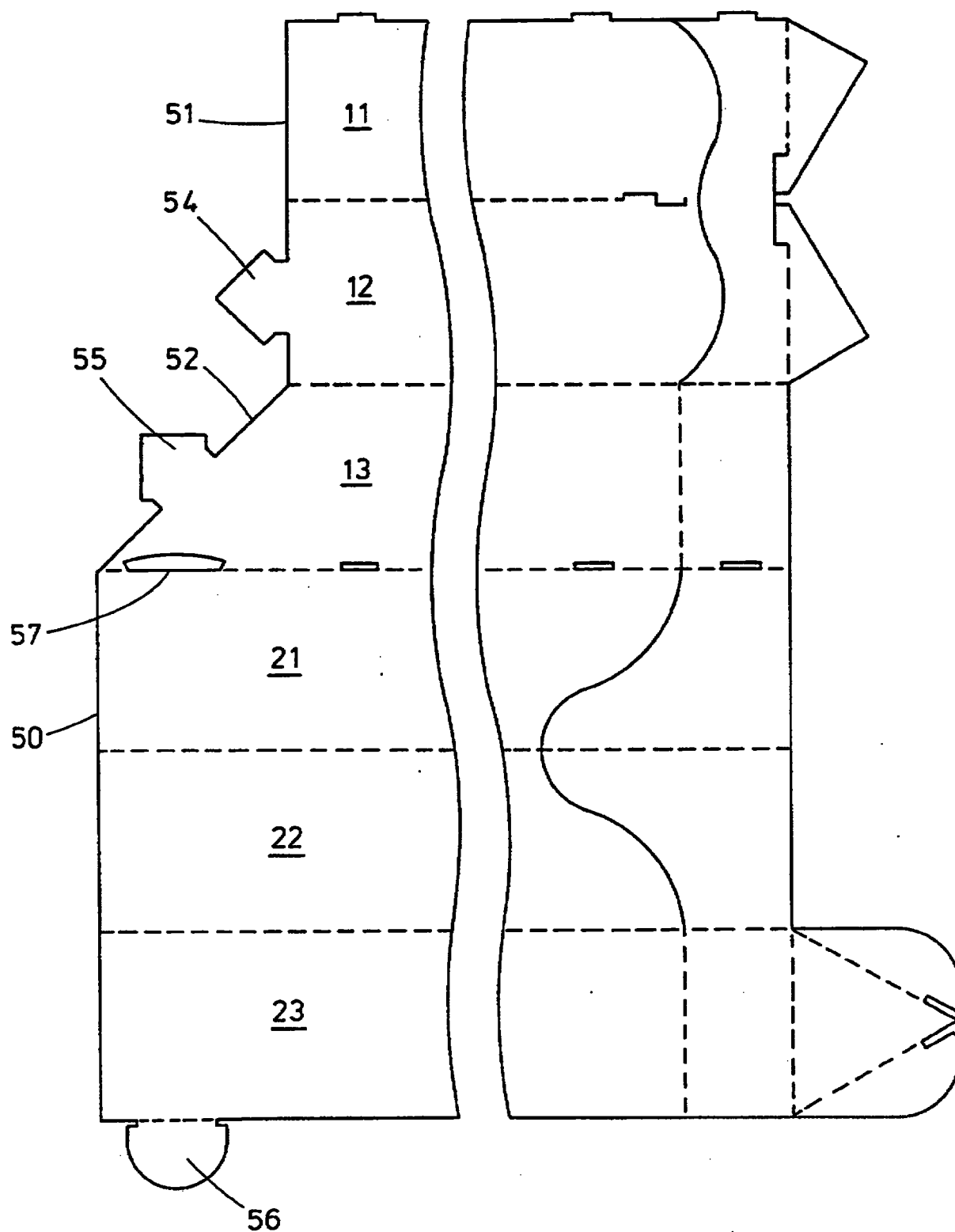


FIG. 8

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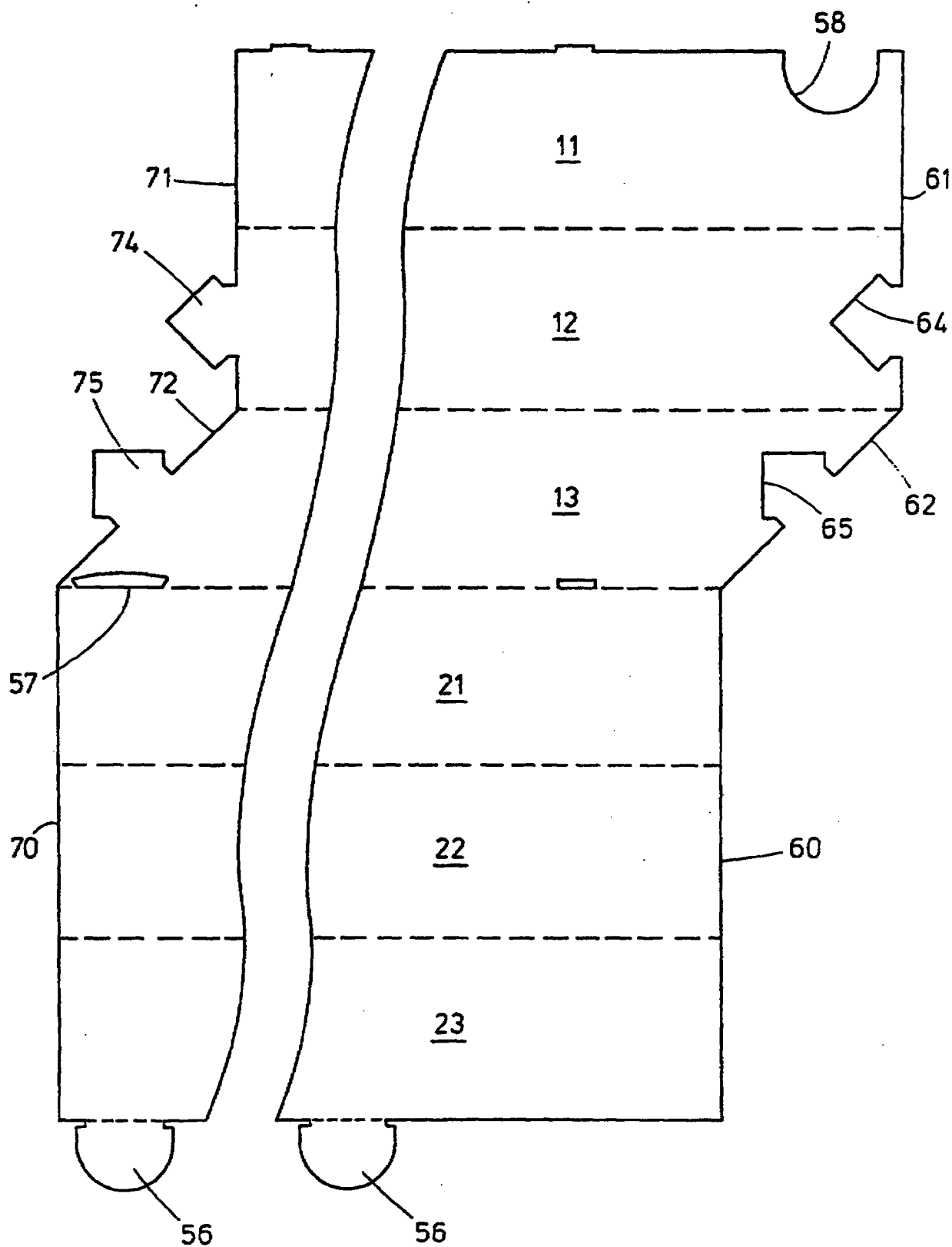
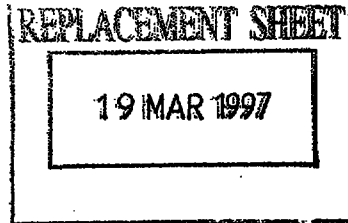


FIG. 9

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CLAIMS

- 1) A carton or pack of triangular cross-section, said carton or pack being formed from a blank of sheet material which is provided with a series of folds (9) dividing the blank into a plurality of panels (11 to 13, 21 to 23), the blank being folded up along successive said fold lines so that a triangular-section inner lining is formed from three of said panels (11 to 13) and a triangular-section outer shell is formed around said inner lining from another three said panels (21 to 23), at least one end of the blank having a triangular end piece (24) projecting from one of the panels (23) of the outer shell, said triangular end piece (24) being retained in a closed portion, across the corresponding end of the carton or pack, by retainer flaps (25) which are hinged to respective edges of said end piece (24) and are inserted and frictionally engaged between respective panels (11, 21 and 12, 22) of said inner lining and outer shell.
- 2) A carton or pack as claimed in claim 1, in which, at said one end of the blank, said inner lining has closure flaps (15) hinged to respective panels (11, 12) thereof and folded across the corresponding end of the carton or pack to close the latter, said triangular end piece (24) being closed over said closure flaps (15).
- 3) A carton or pack as claimed in claim 1 or 2, having a base and two sides, and an end portion (5) which can be opened relative to the main portion of the carton or pack, by flexing about a fold line (33) extending across said base at a position inset from the respective end of the carton or pack.
- 4) A carton or pack as claimed in claim 3, in which said inner lining projects beyond the end of the outer shell at the end of one said main portion of the carton or pack.
- 5) A carton or pack as claimed in claim 4, in which said end of said outer shell inclines from the fold line (33) to the



apex opposite said base of the carton or pack, away from the respective end of the carton or pack.

6) A carton or pack as claimed in any preceding claim, in which said fold lines (9) of said blank are parallel and said panels of said inner lining and outer shell are rectangular.

7) A carton or pack as claimed in any one of claims 1 to 5, in which said panels of said inner lining and outer shell taper towards one end of the blank.

8) A carton or pack as claimed in any preceding claim, in which said blank is formed with tabs (14a) on a free edge of a first said panel (11) of said inner lining, to locate in slots (14b) along the fold line between the third panel of said inner lining and the first panel of said outer shell.

9) A carton or pack as claimed in any preceding claim, in which said blank is formed with tabs (56) on a free edge of a final panel of said outer shell, for insertion through slots (57) formed in a fold line between two other said panels.

10) A carton or pack as claimed in any preceding claim, in which said blank comprises one piece of sheet material.

11) A carton or pack as claimed in any one of claims 1 to 9, in which said blank comprises two or more pieces of sheet material joined end-to-end along complementary end edges (40, 41 and 50, 51) in order to extend the length of the carton or pack.

12) A carton or pack as claimed in claim 11, in which adjacent pieces of said blank are joined by tabs (54, 55) projecting from one piece being engaged in complementary cut-outs (44, 45) formed in the adjacent piece.

13) A carton or pack as claimed in claim 12, in which said complementary tabs and cut-outs are formed in panels of the inner lining, and the join edges (40, 50) of the panels of the

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outer shell are offset from the join edges (41, 51) of the inner lining so that the panels of the outer shell of one piece overlies the join in the inner lining.

14) A carton or pack as claimed in any preceding claim, in which the material of said blank comprises card or plastics sheet.

15) A carton or pack of triangular cross-section, said carton or pack being formed from a blank of sheet material which is provided with a series of folds (9) dividing the blank into a plurality of panels (11 to 13, 21 to 23), the blank being folded up along successive said folds so that a triangular-section inner lining is formed from three of said panels (11 to 13) and a triangular-section outer shell is formed around said inner lining from another three said panels (21 to 23), the carton or pack having a base and two sides and the two sides of the inner lining and outer shell being divided to provide an end portion (5) which can be opened, relative to the main portion (20) of the carton or pack, by flexing about a fold line (33) extending across said base at a position inset from the respective end of the carton or pack, the two sides of said inner lining being divided along lines different from the lines along which the two sides of the outer shell are divided, so that said inner lining projects beyond the end of the outer shell of one said portion of the carton or pack and the outer shell of the other portion engages over the projecting inner lining of the one said portion upon closing said end portion.

16) A carton or pack is formed from a blank of sheet material which is provided with a series of folds (9) dividing the blank into a plurality of panels (11 to 13, 21 to 23), the blank comprising two or more pieces of sheet material joined together end-to-end to extend the length of the carton or blank formed therefrom, the blank being folded up along successive said folds to form said carton or blank.

35 17) A carton or pack as claimed in claim 16, in which

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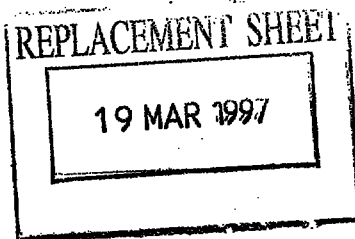
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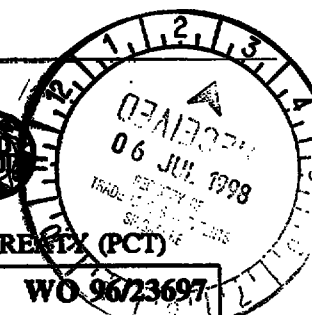
adjacent pieces of said blank are joined by tabs (54, 55) projecting from one piece being engaged in complementary cut-outs (44, 45) formed in the adjacent piece.

18) A carton or pack as claimed in claim 17, in which said
5 blank forms an inner lining and an outer shell wrapped around
said inner lining, said complementary tabs (54, 55) and cut-
outs (44, 45) being formed in the inner lining and offset from
the join edges (40, 50) of the outer shell such that the outer
shell of one said piece overlies the join (41, 42 and 51, 52)
10 in the inner lining.



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(54) Title: **LINED CARTON OF TRIANGULAR CROSS SECTION**

(57) Abstract

A tubular carton or pack is of triangular cross section for carrying, for example, a rolled-up paper product. The carton is formed from a blank which is folded-up to form an inner lining and then an outer shell. Each end is closed by a triangular end piece (24) which is retained in position by retainer flaps (25) which are inserted between the inner lining and outer shell. The carton may have a short end portion arranged to hinge open along a fold line formed across the base side of the carton, to allow easy access to its contents.

