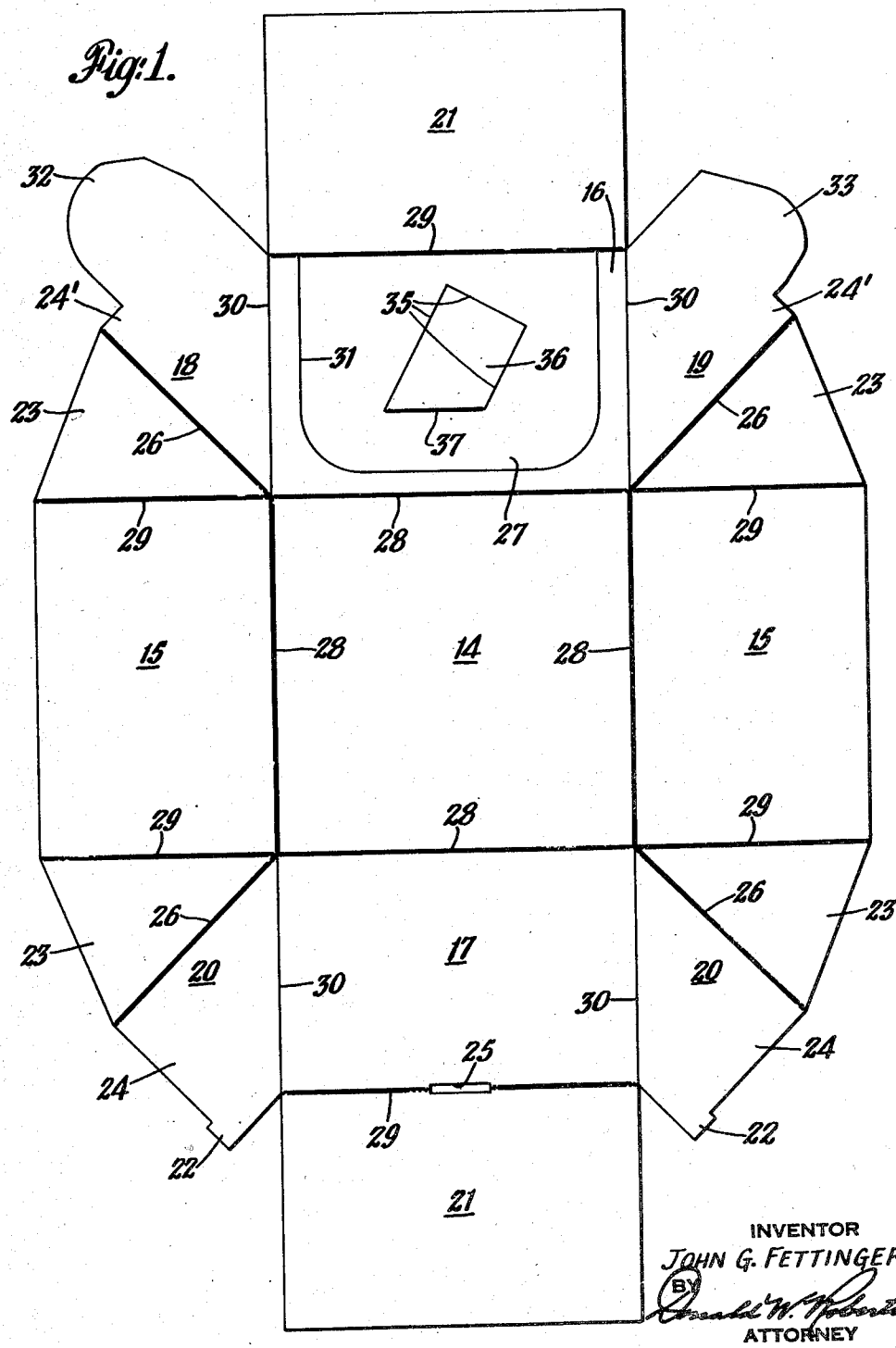
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CARTON AND DISPLAY BASKET

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Fig. 1.



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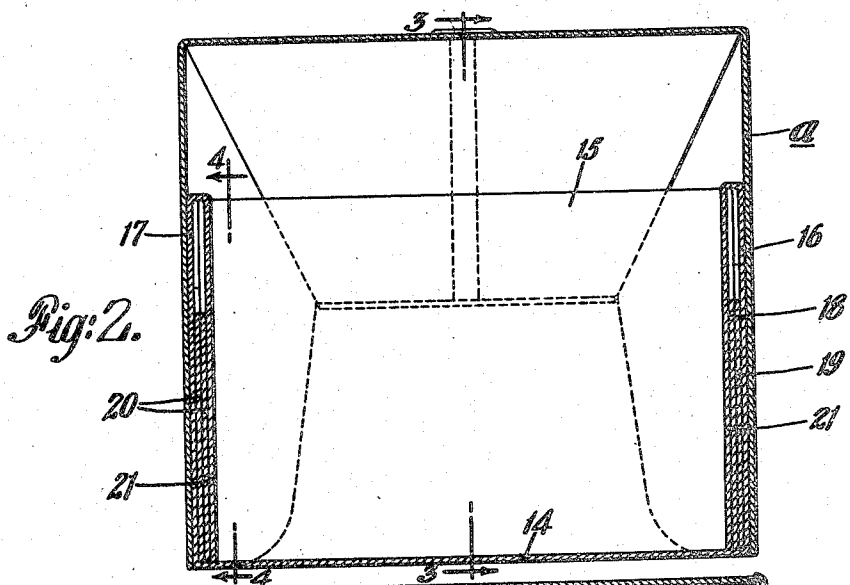


Fig. 2.

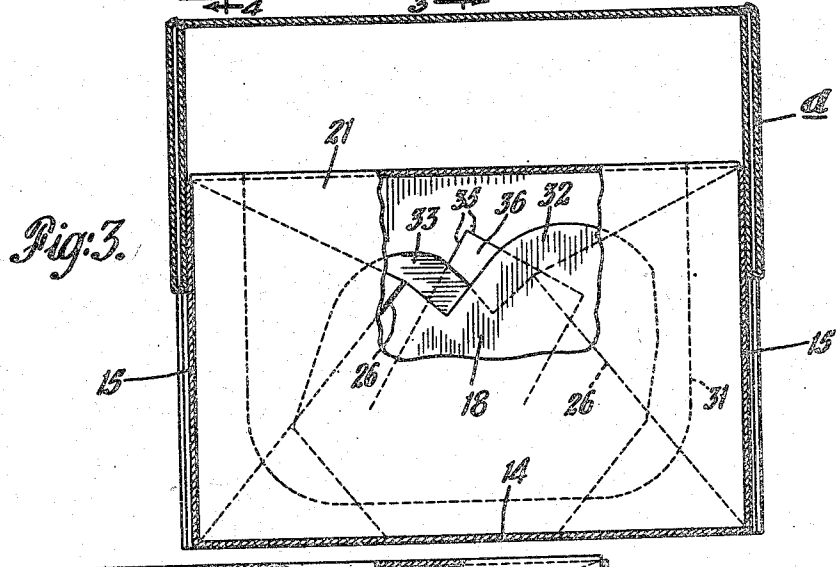


Fig. 3.

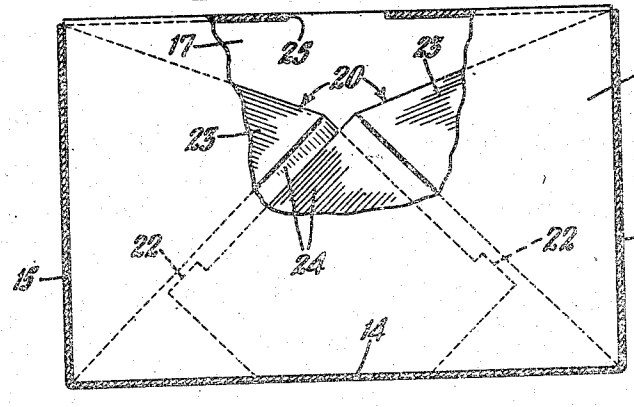


Fig. 4.

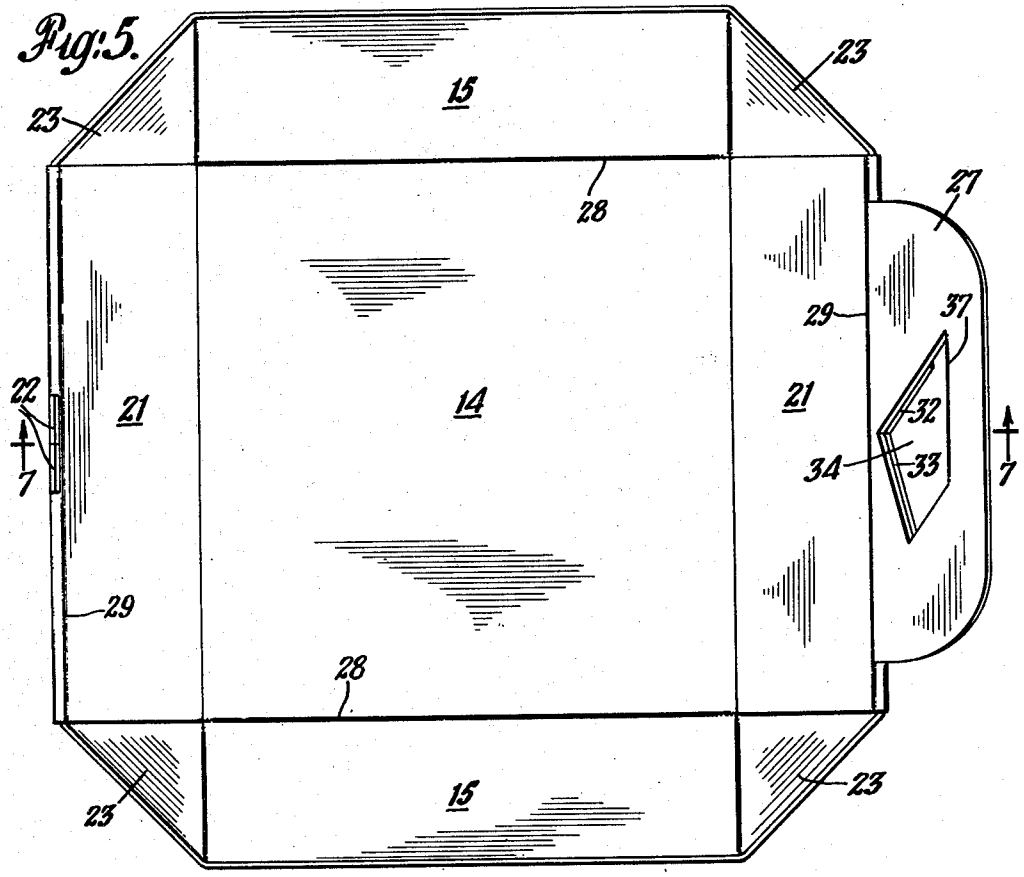
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Fig. 5.



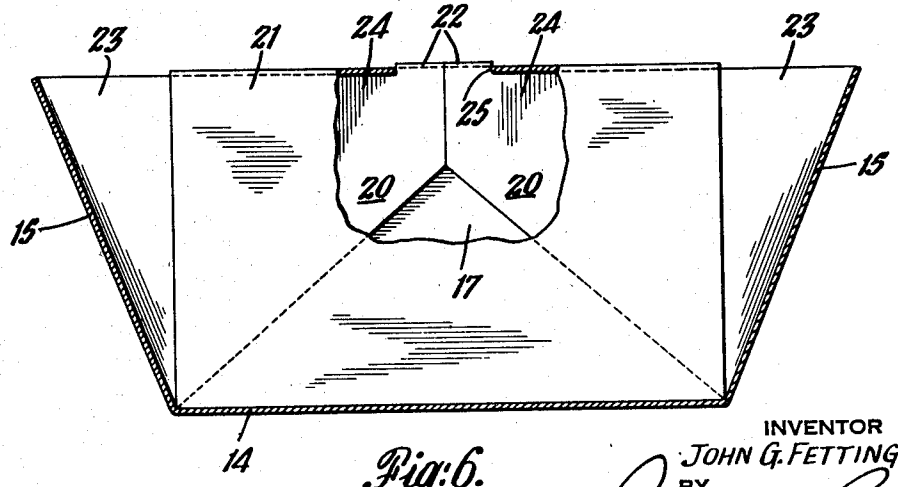


Fig. 6.

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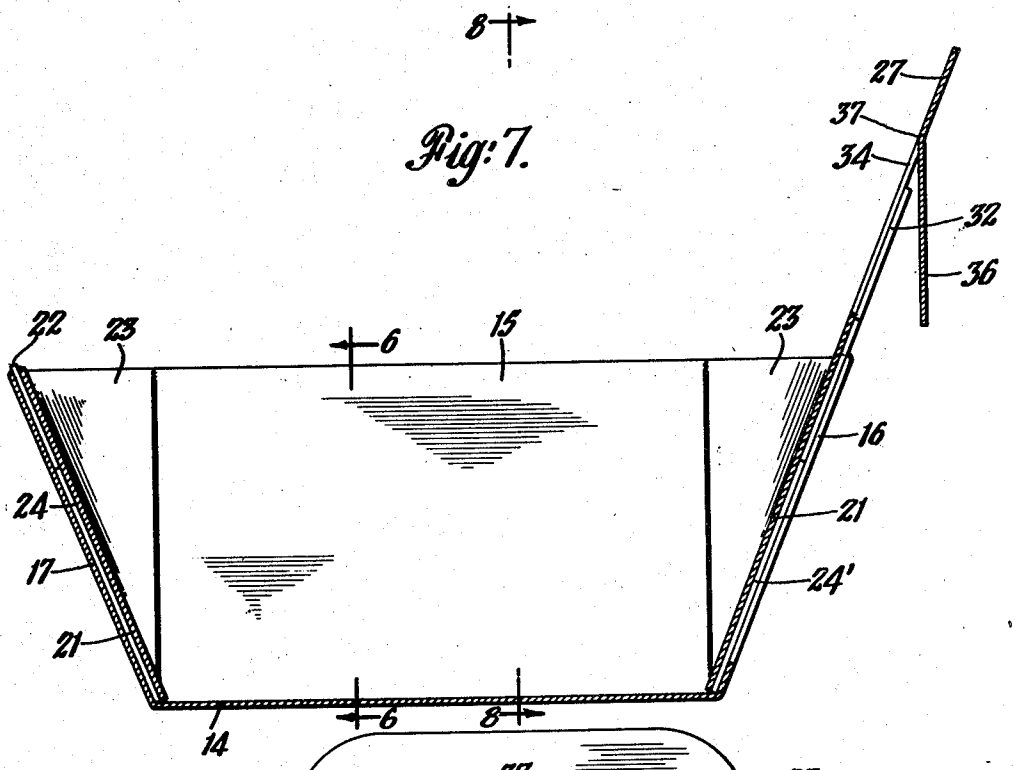


Fig: 7.

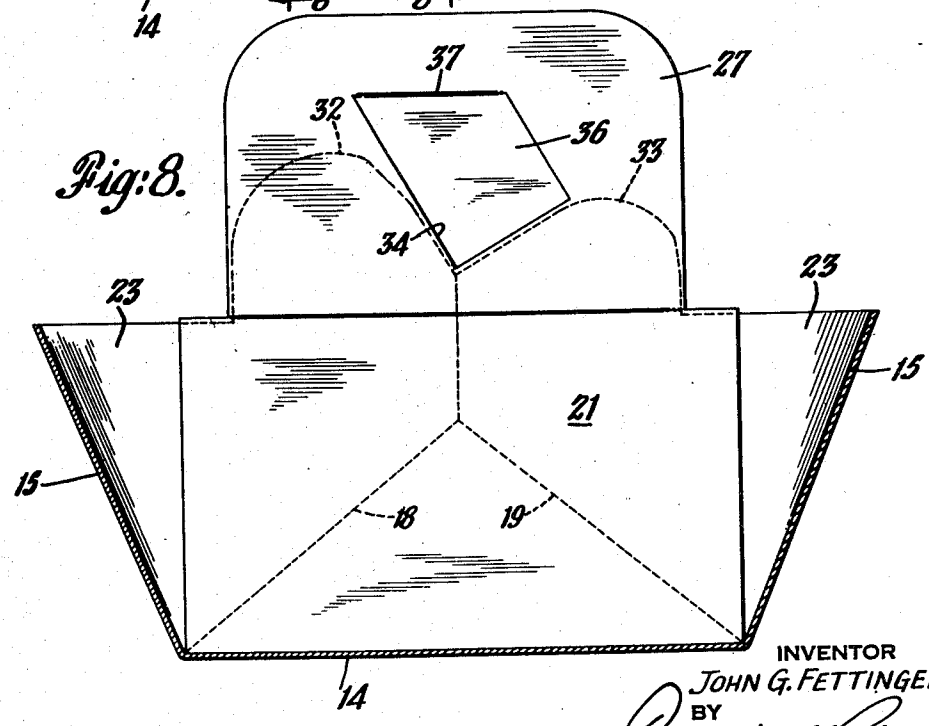


Fig: 8.

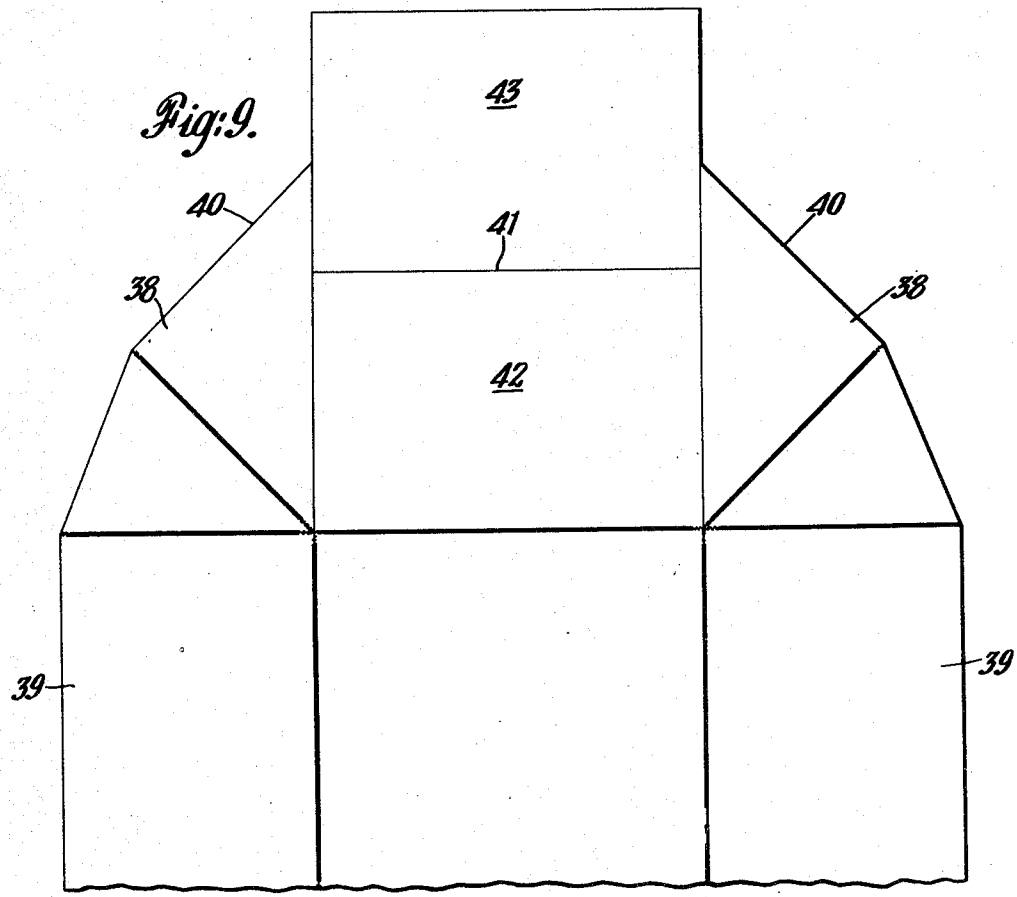
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CARTON AND DISPLAY BASKET

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Fig:9.



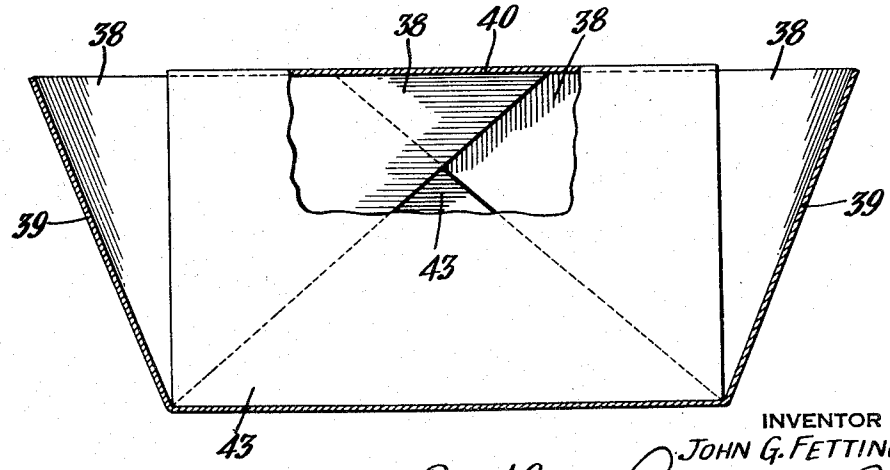


Fig:10.

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Fig:11.

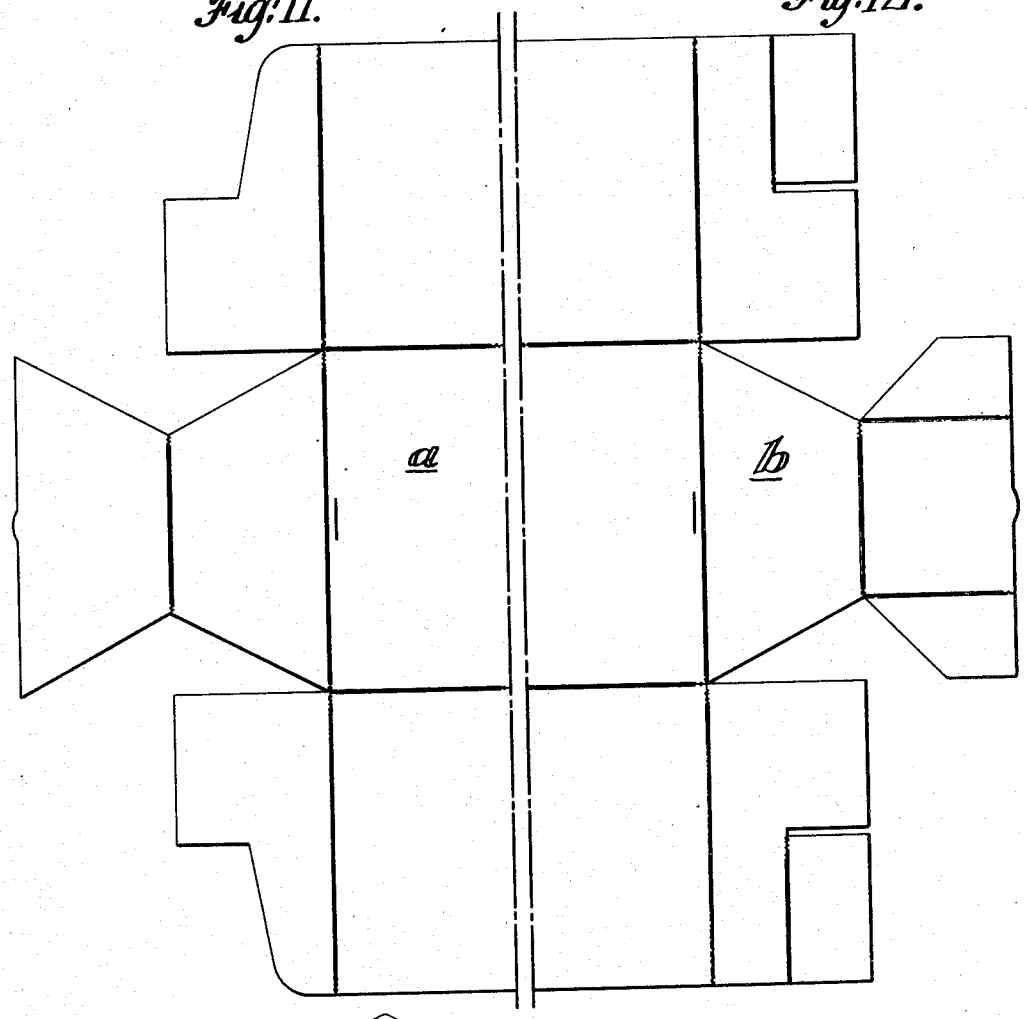


Fig:12.

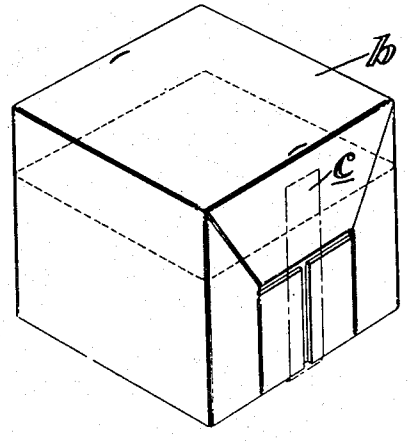


Fig:13.

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Patented Apr. 25, 1950

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UNITED STATES PATENT OFFICE

2,505,034

CARTON AND DISPLAY BASKET

John G. Fettinger, Utica, N. Y., assignor to Robert Gair Company, Inc., New York, N. Y., a corporation of Delaware

Application March 26, 1947, Serial No. 737,357

5 Claims. (Cl. 229—31)

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The invention relates to cartons of the type generally made of paperboard or the like.

The primary object of my invention is to provide an improved expansible carton body the sides of which pull apart at the top when the cover is removed to form a basket for use in displaying goods for sale, as for example on the counters of retail stores.

Another, and more specific, object is to provide an improved locking arrangement for such combined carton bodies and display baskets which is so constructed as to hold the sides of the opened basket in their extended position.

A further object is to provide a combined carton body and display basket in which the locking means also serves to support an extension of one of the sides in elevated position for exhibition of advertising matter and to hold a specimen of the goods on display.

Other objects and advantages will appear as the description proceeds.

In the drawings:

Fig. 1 is a face view of a paperboard blank from which a preferred embodiment of my improved carton body and basket is formed.

Fig. 2 is a vertical cross-sectional view of a carton body with the cover in place, the carton body being formed from the blank shown in Fig. 1.

Fig. 3 is a vertical cross-sectional view taken as indicated at 3—3 in Fig. 2.

Fig. 4 is a vertical cross-sectional view taken as indicated at 4—4 in Fig. 2 with the cover removed.

Fig. 5 is a top plan view of a display basket as formed from the carton body shown in the preceding views by spreading the sides apart at the top.

Fig. 6 is a vertical cross-sectional view taken as indicated at 6—6 in Fig. 7.

Fg. 7 is a vertical cross-sectional view taken as indicated at 7—7 in Fig. 5.

Fig. 8 is a vertical cross-sectional view taken as indicated at 8—8 in Fig. 7.

Fig. 9 is a face view of a portion of a paperboard blank from which a modified form of my improved carton body and basket is formed.

Fig. 10 is a vertical cross-sectional view similar to Fig. 6 but showing a display basket formed from the blank of Fig. 9.

Figs. 11 and 12 are face views of portions of blanks from which two alternative forms of cover are made.

Fig. 13 is a perspective view of the cover formed from the blank of Fig. 12 applied to a carton body

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and forming a completed package ready for shipment.

With reference to Figs. 1 to 8 inclusive, I have illustrated a preferred form of my combined carton body and display basket, and blank therefor, comprising a bottom 14 and four side panels 15, 15, 16, 17 secured thereto, lateral extensions 18, 19, 20, 20 on each of two opposed side panels 15, and an end extension 21 on each of the two remaining side panels 16, 17. As shown in Figs. 2, 3 and 4, the lateral extensions 18, 20 of one of the opposed panels 15 overlap the lateral extensions 19, 20 of the other when the side panels are disposed at right angles to the bottom and the end extensions 21, 21 of the remaining side panels folded over the tops of the lateral extensions.

There is thus formed a four-sided paperboard receptacle having overlapping sections 18, 19 and 20, 20 at two opposed sides thereof, said sections being formed as extensions of the other two sides 15, 15. The overlapping sections are slidably arranged between the two thicknesses 16, 21 and 17, 21 of the double sides formed by folding the stock inwardly. The extensions 18, 19, 20, 20 have sloping top edges and diagonal fold lines 26 so that when the sides are pulled apart at the top the extensions pull out as far as the diagonal fold lines to form triangular sections 23 at the corners of the receptacle which connect the sides in outwardly inclined relationship as shown in Figs. 5 to 8 inclusive. There is thus provided a display basket having an eight-sided top and a four-sided bottom. However, if desired, the diagonal fold lines 26 can be omitted.

The blank also is provided with pre-scored fold lines 28, 29 at the junctions of the bottom and side panels and at the junctions of the side panels with the lateral and end extensions. Sections 24 and 24' of the lateral extensions are separated from the side walls 16 and 17 by cuts 30.

An important feature of my invention resides in the construction whereby the folding flaps formed by the end extensions 21 restrain the sections of extensions 18, 19, 20, 20 in overlapped relationship and also serve to guide them into abutting relationship when the sides are spread apart at the top and inclined to the vertical. The overlapping relationship is shown in Figs. 3 and 4 and the abutting relationship in Figs. 5 and 6. When the sides are pulled apart at the top against the restraint of the folding flaps 21 and the extensions 20 reach the position shown in Fig. 6, the ends of these extensions snap into abutting relationship, in which relationship they are main-

tained by the folding flaps to hold the sides of the opened basket in their extended position.

Another advantage is that this combined carton body and display basket is formed without the use of metal staples or other securing means, the folding flaps serving the dual function of holding the sides in either of two selected positions, i. e. upright for packing and shipment, and spread apart for display purposes.

Another feature of my construction is that the action of the folding flaps in restraining the sections in overlapping relationship serves to hold the carton sides in upright position during the operation of filling the carton, thereby making it unnecessary to use a form to support the sides during filling.

Sections 24 of the lateral extensions 20 have locking projections 22 which are arranged to project into or through slots 25 formed at the fold line between the side 17 and adjacent flap 21.

The expansible and locking construction shown in Figs. 4 and 6 can be duplicated at the opposite side of the carton if desired. However I have illustrated in Figs. 1, 3 and 5 a modified form of the locking projections as utilized in conjunction with an extension 27 of the side 16 which, when the basket is opened for display, stands up at one side of the basket to support an article for display and/or to carry printed matter describing the goods for sale. This extension 27 is formed from the stock of the side 16 by the U-shaped cut line 31 (Fig. 1). The extended parts of locking projections 32, 33 of sections 24' of the side extensions are arranged to extend above the fold line of the adjacent flap 21 when the sides 15 are spread apart as previously described, and serve to support the extension 27 in its raised position as shown best in Figs. 5, 7 and 8. Also, in the specific construction shown, the extended portion 27 of the side of the receptacle has an opening 34 to support an article for display. This opening is formed by cut lines 35 which leave a tab 36 attached to extension 27 by a score line 37. This tab can be pushed out as shown in Fig. 7. At least one of the locking projections 32, 33 has a portion arranged to come in line with the base of opening 34. Not only do the extended parts of locking projections 32, 33 support the side extension 27 in raised position, but they also assist in flipping this extension into such position as the sides of the carton body are spread apart. This action and also the action of the flaps 21 in guiding the side extensions into abutting relationship will be more fully appreciated when a receptacle is formed as I have described and set up for use. The contents of the carton body hold the flaps 21 in the position shown, for example, in Fig. 7, and it will be observed that as the sides are spread apart at the top to display the contents, the overlapping extensions 18, 19 and 20, 20 automatically snap into abutting or locking position, and at the same time the extension 27 flips up into its erected position. By making the U-shaped cut line 31 (Fig. 1) smaller, and cutting an opening inside it, extension 27 can be utilized as a handle for the basket, a construction which can be duplicated at the other side of the basket.

I refer now to the modified construction illustrated in Figs. 9 and 10. Fig. 9 shows only one end of the blank, and it will be understood that the same construction can be duplicated at the other end. The construction is the same as that shown at the lower part of Fig. 1 with the exceptions that the slot 25 is omitted, the form of the lateral extensions has been altered, and locking projections 22 omitted. Thus the extensions 38 of sides 39 are formed with terminal sections having sloping upper edges 40 which, when the sides are spread apart for display as shown in Fig. 10, engage the inside of fold line 41 between side 42 and adjoining flap 43. The sloping top edges 40, like the sloping top edges of sections 24 of extensions 20 (Fig. 1), provide clearance for partial withdrawal of the extensions from between the folds of the remaining side panel.

With my combined carton body and display basket I prefer to use a cover which is of greater over-all height than the carton body as set up for shipment. This condition is illustrated in Figs. 2 and 3 and also in Fig. 13 where the dotted line represents the top of the carton body. A cover of any suitable construction can be employed. For completeness of illustration, I have shown blanks for two suitable forms of cover in Figs. 11 and 12. These are partial views of the blanks showing one end only of each, and it will be understood that the construction is duplicated at the other end. Inasmuch as the outlines of these blanks are clearly shown, it will be unnecessary to describe them in detail. The shaded or multiple lines indicate fold lines which should be pre-scored or otherwise weakened for ease in folding. The cover shown in Figs. 2 and 3 is formed from the blank *a* shown in Fig. 11 and the cover shown in Fig. 13 is formed from the blank *b* shown in Fig. 12. The cover may be fastened to the carton body in any suitable manner as by a gummed tape c.

Another form of cover which can be employed advantageously is one constructed exactly like the carton body shown in Figs. 5 and 6, the expansible and locking construction there illustrated being duplicated at the opposite side. A feature of this construction when employed as a cover is that when expanded as shown in Fig. 6, and inverted, it serves as a platform or stand to go under the basket when set up as a display. Also, this form of combination cover and display platform can be used with carton bodies of conventional construction if desired. The carton body structure shown in Figs. 9 and 10 also is suitable for use as a combination cover and display platform. As employed herein, and in the appended claims, the term "receptacle" therefore should be understood as including both the carton bodies and the covers which serve as receptacles for the carton bodies.

The reason for employing a cover which is higher than the carton body is to hold that amount of merchandise which can be effectively displayed in the basket, and it will be appreciated that the basket has greater capacity than the carton body unless the latter is loaded above its top edge as preferably is done. However, if desired, the cover can be made of the same height as the carton body.

As used herein and in the appended claims, the term "paperboard" is defined as including all of the paper mill products customarily employed in making folding boxes and/or shipping cartons, for examples, the materials commonly known by such names as "corrugated paper," "box board," etc.

The terms and expressions which I have employed are used in a descriptive and not a limiting sense, and I have no intention of excluding such equivalents of the invention described, or of portions thereof, as fall within the purview of the claims.

I claim:

1. An article of the class described comprising a four-sided paperboard receptacle having sections which overlap when the sides are vertically

arranged, and folding flaps for restraining said sections in overlapped relationship and for guiding them into abutting relationship when the sides are spread apart at the top and inclined to the vertical, said sections having locking projections for engagement with a slot at the fold line of said flaps when the sides are spread apart at the top as aforesaid.

2. An article of the class described comprising a four-sided paperboard receptacle having sections which overlap when the sides are vertically arranged, and folding flaps for restraining said sections in overlapped relationship and for guiding them into abutting relationship when the sides are spread apart at the top and inclined to the vertical, said sections having locking projections arranged to extend above the fold line of said flaps when the sides are spread apart as aforesaid.

3. A combined carton body and display basket comprising a four-sided paperboard receptacle having sections which overlap when the sides are vertically arranged, and folding flaps for restraining said sections in overlapped relationship and for guiding them into abutting relationship when the sides are spread apart at the top and inclined to the vertical, said sections having locking projections arranged to extend above the fold line of said flaps when the sides are spread apart as aforesaid, and a portion of the adjacent side of the receptacle being cut out to lift up into a position where it forms an extension of said side and is supported in such position by the extended parts of said locking projections.

4. A construction according to claim 3 in which the extended portion of the side of the receptacle has an opening to support an article for display, at least one of the locking projections having a portion arranged to come in line with the base of said opening when the sides are spread apart as aforesaid.

5. A combined carton body and display basket comprising a four-sided paperboard receptacle having overlapping sections at two opposed sides thereof, said sections formed as extensions of the other two sides and being of generally triangular form, folding flaps extending from the bottom of the receptacle to its top at the outside of said overlapping sections at which point they are foldable downwardly at the inside of said overlapping sections for restraining said sections in overlapped relationship to hold the sides of the receptacle in vertical position, and the overlapping sections having portions at their upper sides arranged for engagement with said folding flaps at the fold line thereof to limit the extent to which the sides of the receptacle can be spread apart at the top when opened to inclined position to form a display basket, said portions of the overlapping sections which engage said folding flaps having locking projections extending into a slot at the fold line in abutting relationship when the sides are spread apart as aforesaid.

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