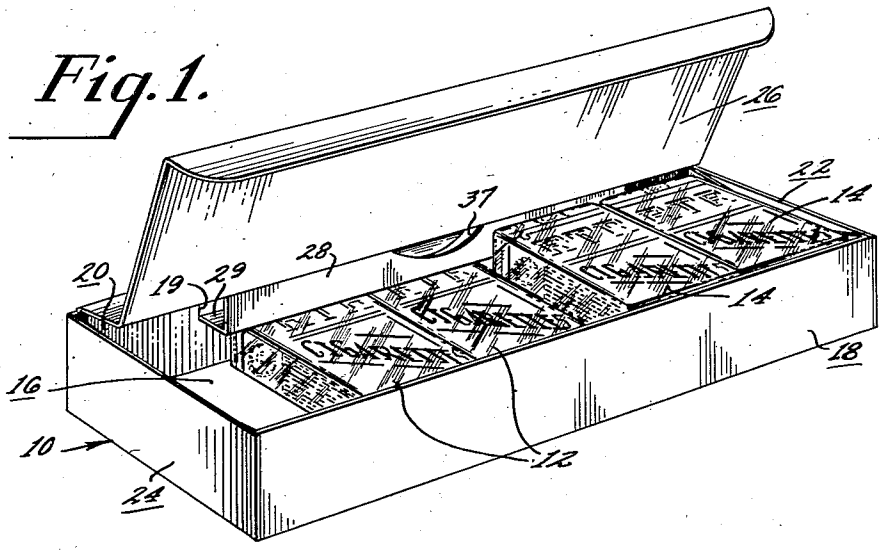
Aug. 20, 1957 A. KOEBLE 2,803,391

CONTAINER

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Fig. 1.



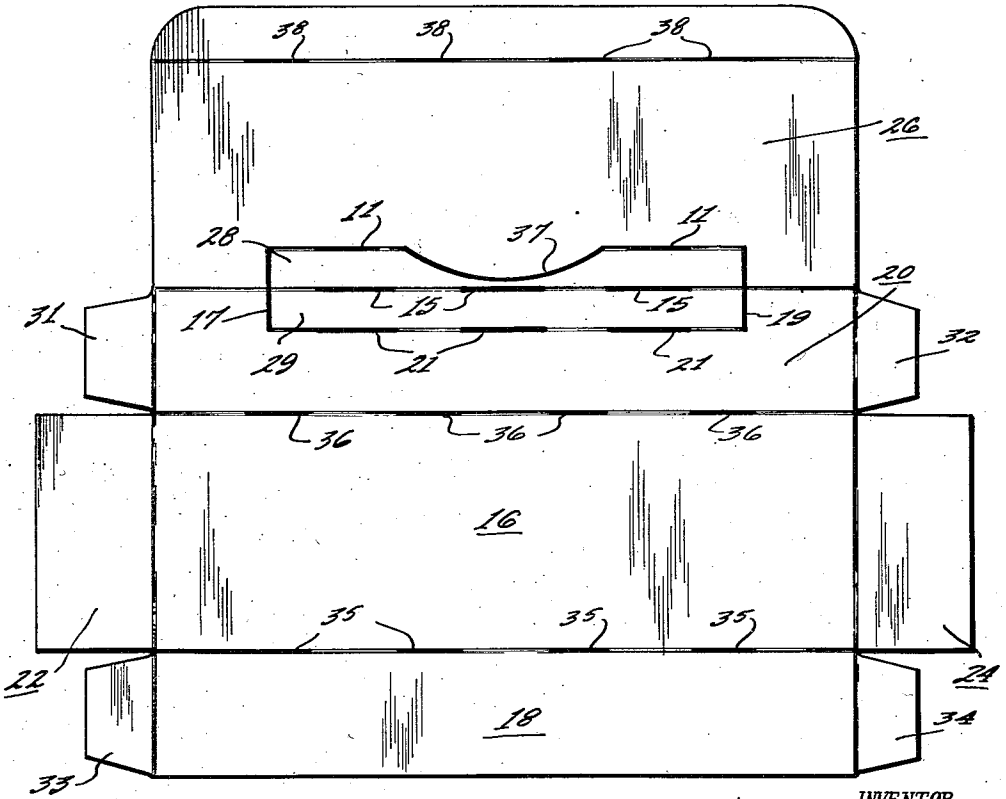


Fig. 2.

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Fig. 3.

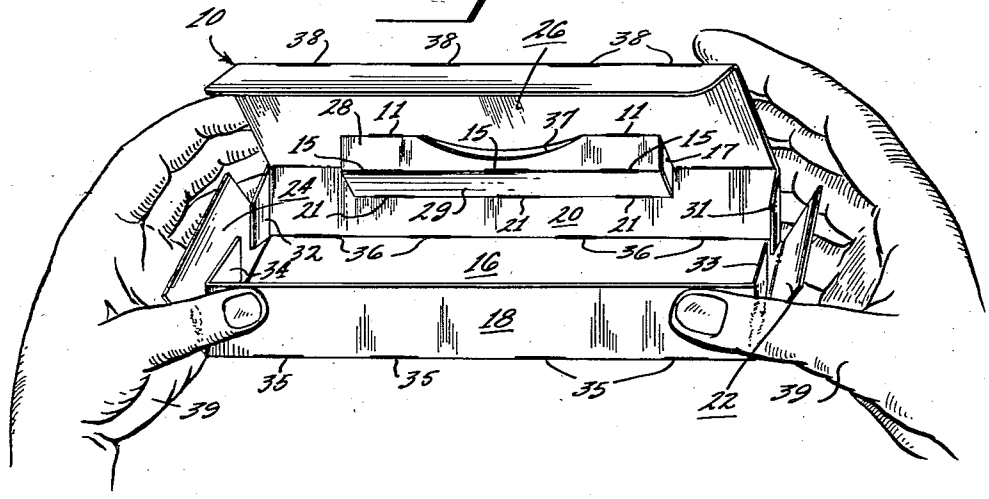


Fig. 4.

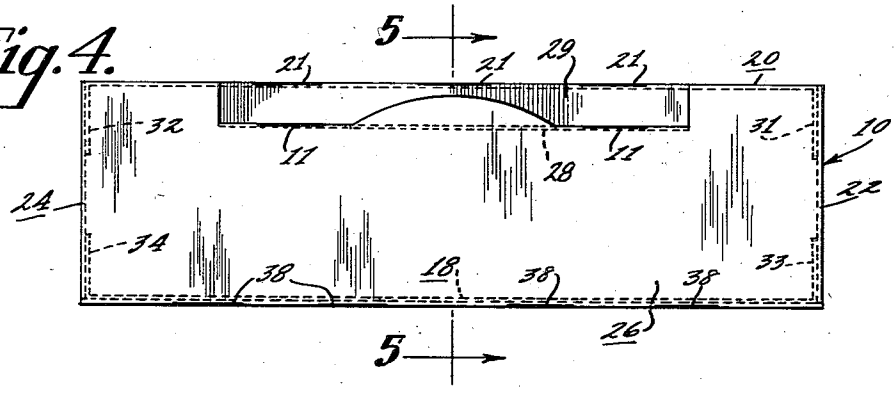
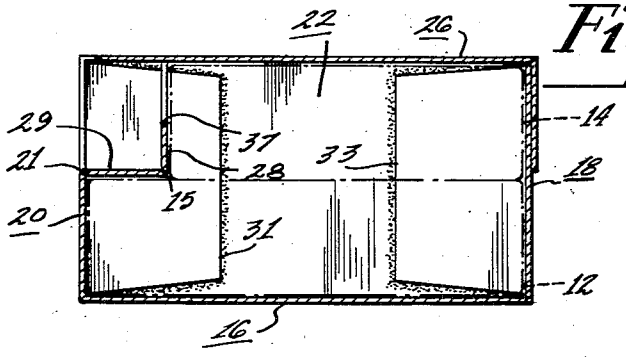


Fig. 5.



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Fig. 6.

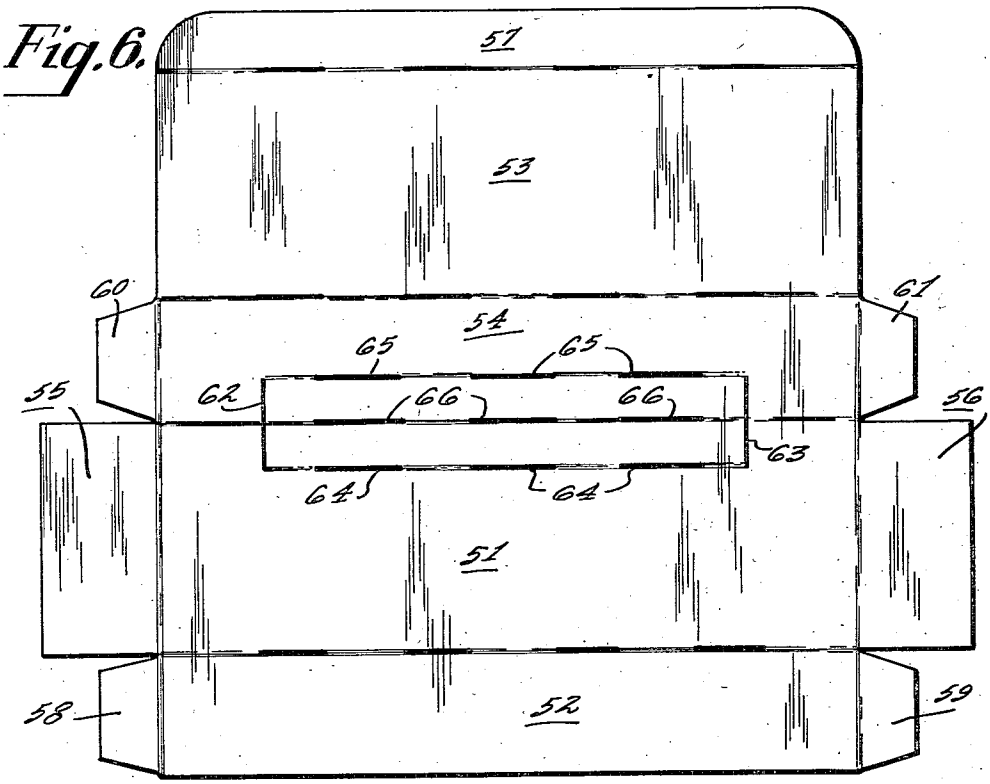


Fig. 7.

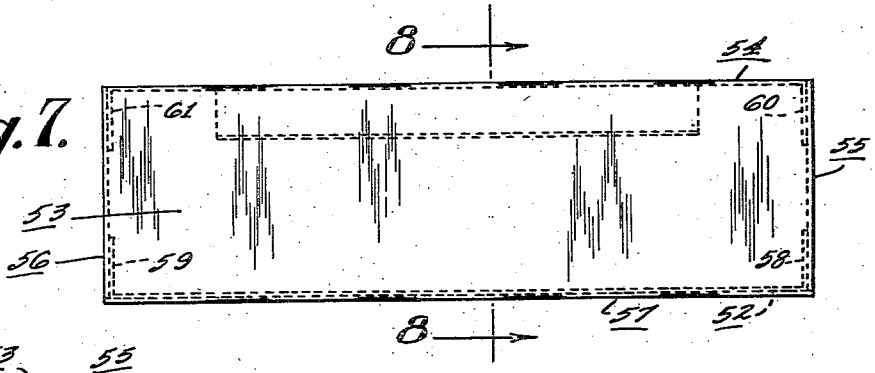
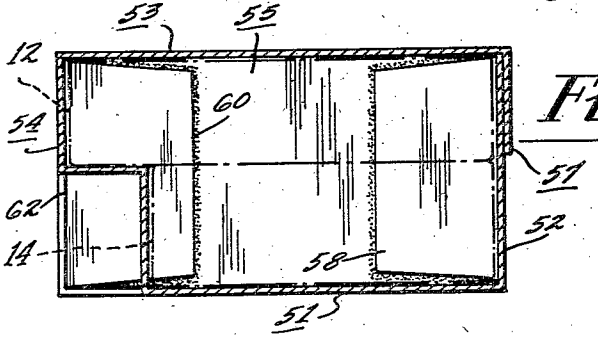


Fig. 8.



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Fig. 9.

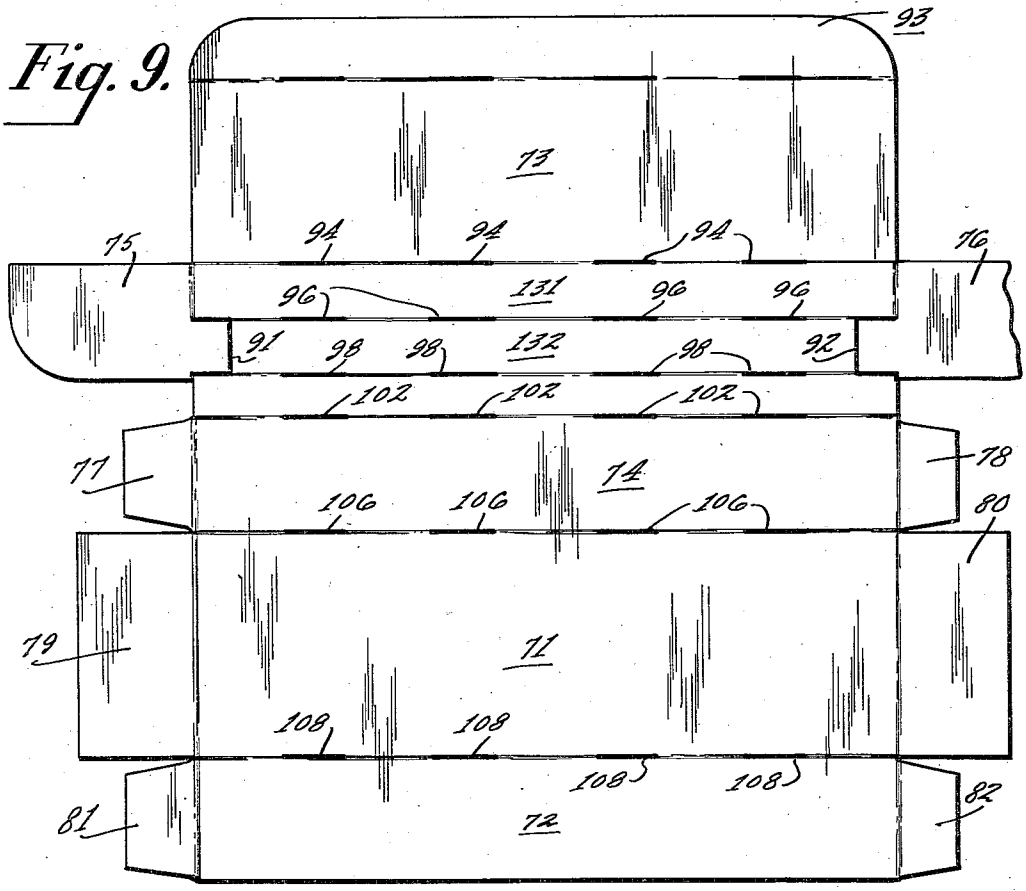


Fig. 10.

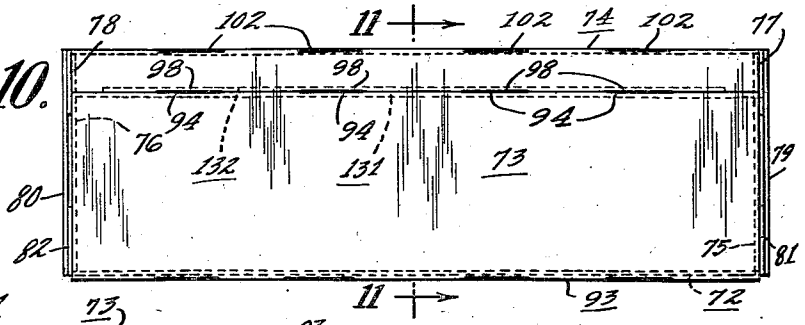
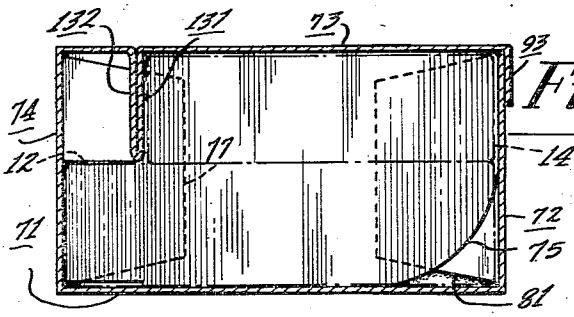


Fig. 11.



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2,803,391

CONTAINER

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Application December 21, 1953, Serial No. 399,366

2 Claims. (Cl. 229—27)

The present invention relates to containers or receptacles of the foldable variety, to be assembled from "flats" or blanks, and, more particularly, to an improvement in containers for cigarette packages, for example, which permits packing of units of packs of cigarettes of different pack sizes.

The unit in the trade is usually ten packs per carton. Since the popularization of the "king" size in addition to the "regular" size, there is a need for packing both sizes in a single carton. The suggested unit is five packs. A container embodying this invention will securely pack two units, one of regular size and one of king size. Within the scope of the invention, the units may be arranged in separate layers and a range of choice is provided in arranging the units. Containers constructed in accordance with this invention may be machine made on cutting and gluing machines. Known cutting and gluing practices are readily adapted to production of containers of this invention.

From the foregoing, it will be noted that one important object of this invention is to provide an improved container for securely holding a plurality of units of packages, the packages in one unit differing in size from the packages in another unit.

Another object is to provide a foldable container having novel means for locating packages of different sizes in layers.

A further object is to provide a novel container to be erected from a flat blank in a manner to provide package spacing means.

Still another object is to provide novel containers for a plurality of units of cigarette packages.

A still further object is to provide a foldable container with a package positioning offset.

Other objects and advantages of the present invention will, of course, become apparent and immediately suggest themselves to those skilled in the art to which the invention is directed from a reading of the following specification in connection with the accompanying drawing in which:

Fig. 1 is a view in perspective of a container embodying the present invention in one form;

Fig. 2 is a view in plan of the "flat" or blank prepared to provide the container of Fig. 1;

Fig. 3 is a view in perspective showing a step in the formation of the container from the blank of Fig. 2;

Fig. 4 is a view in plan of the container of Fig. 1;

Fig. 5 is a view in sectional elevation, the section being taken on line 5—5 of Fig. 4 as viewed in the direction of the arrows;

Fig. 6 is a view similar to Fig. 2 of a modification of the present invention as embodied on a blank;

Fig. 7 is a view in plan of a container constructed from the blank of Fig. 6;

Fig. 8 is a view in sectional elevation, the section being taken on line 8—8 of Fig. 7 as viewed in the direction of the arrows;

Fig. 9 is a view of a blank embodying the invention in another form;

Fig. 10 is a view in plan of a container constructed from the blank of Fig. 9; and

Fig. 11 is a view in sectional elevation, the section being taken on line 11—11 of Fig. 10 as viewed in the direction of the arrows.

Fig. 1 of the drawing shows an illustrative embodiment of the invention in which a unit of five packs of cigarettes of the regular size is positioned over a unit of five packs of cigarettes of king size. In the embodiment of Fig. 1 the container or carton **10** is provided by folding up the blank shown in Fig. 2. The blank of Fig. 2 and other blanks disclosed herein may be made of any suitable foldable material. For example, the stock may be .016 bleached manila lined cardboard. The stock may also be .018 or .020 clay-coated boxboard. The selected material may be processed on a cut and crease machine and glued on a gluing machine.

The one-piece blank of Fig. 2 has a bottom **16**, sides **18** and **20**, ends **22** and **24** and a top or lid **26**. Crease lines are indicated at the adjacent edges of these carton parts. The longer crease lines are provided with relatively short cuts or severed sections designated by reference characters **35** and **36**. Cuts **38** along the crease line joining the lid **26** and a tuck-in flap are designated by reference character **38**. An arcuate cut **37** outlines a curved tab which may be projected in the plane of the lid **26** when the carton **10** is erected from the blank of Fig. 2.

In accordance with the invention, a filler spacer to position regular size packs **14** over king size packs **12** is provided by the parts **28** and **29**. These parts are joined by a crease line having cuts **15**. The part **28** is joined to the lid **26** by a crease line having the cuts **11**. One cut **11** lies at each side of the arcuate cut **37**. The part **29** is joined to the side **20** by a crease line having the cuts **21**. Both parts **28** and **29** are outlined at their ends by cuts **17** and **19**.

Fig. 3 discloses one way in which the carton **10** may be formed by a simple hand operation from the blank of Fig. 2. It will be understood that machine folding and/or gluing may be employed for producing cartons **10** in quantities. In Fig. 3 it will be noted that bending the lid **26** toward and parallel with the bottom **16** will cause the parts **28** and **29** to assume a position at right angles to each other. This provides the position spacer for the shorter regular size packs **14**. The packs **14** abut the part **28**. The packs **12** lie under the part **29**. The lid may be raised to the position shown in Fig. 3 to get access to the contents. In this case the lid **26** remains uncreased in alignment with the cuts **11** and the parts **28** and **29** assume an obtuse angle with respect to each other. On the other hand, the entire lid may be creased in alignment with the cuts **11** as shown in Fig. 1. Adhesive may be applied in advance to the flaps **31**, **32**, **33** and **34** to facilitate a subsequent gluing operation.

Figs. 7 and 8 of the drawing show another illustrative embodiment of the invention in which a unit of five packs of cigarettes of regular size is positioned under a unit of five packs of cigarettes of king size.

The blank of Fig. 6, which is foldable to form the carton of Figs. 7 and 8, comprises a bottom **51**, sides **52** and **54**, ends **55** and **56** and a top or lid **53**. The sides **54** is provided with flaps **60** and **61**. The side **52** is provided with flaps **58** and **59**. The top **53** has a tuck in flap **57**. The spacer for positioning the regular size packs of cigarettes is provided between the bottom **51** and the side **54**. Creases are provided having cuts **64** and **65** to facilitate folding. The center of the spacer is defined by a crease line having the cuts **66**. The ends of the spacer are defined by cuts **62** and **63** which permit the panels of the

spacer to assume a position at right angles to each other when the bottom **51** is bent at a right angle to the side **54**.

The mode of formation of the container of Figs. 7 and 8 form the blank of Fig. 6 follows the procedure described above. The shorter packs are located beneath the king size packs in the finished carton. The flap **57** may be a tuck in flap or it may be sealed to the outside of the finished and packed carton. The carton of Fig. 1 may be packed and sealed in the same way.

Figs. 10 and 11 of the drawing show still another illustrative embodiment of the invention in which the spacer for the shorter packs is of unitary construction with the cover or lid. The shorter packs lie above the king size packs when the carton of this modification is filled.

The blank of Fig. 9 comprises a bottom **71**, sides **72** and **74** and ends **79** and **80**. Cuts **108** are located along the fold line crease between the bottom **71** and the side **72**. Cuts **106** are located between the bottom **71** and the side **74**. The sides are provided with flaps **77**, **78**, **81** and **82**. The cover or lid is designated **73** and it compriess portions **131** and **132** which are folded together to provide the spacer. The portions **131** and **132** are outlined by parallel fold lines having short cuts **94**, **96** and **98**. The lid **73** is hinged to the side **74** along a fold line having short cuts **102**.

Flaps **75** and **76** are hinged to the portion **131** by fold lines. These flaps are covered from the portion **132** by U-shaped cuts **91** and **92**. A flap **93** is provided at the edges of the cover **73**.

The carton of Figs. 10 and 11 is folded up from the blank of Fig. 9 by bringing the portions **131** and **132** into facial contact. At this time, the flaps **75** and **76** may be bent up as viewed in Fig. 9. The body of the carton is then folded up and the flaps **75** and **76** are secured against the inside of the carton. The flaps **75** and **76** serve to hold the spacer composed of the portions **131** and **132** in a vertical position whereby to abut the ends of regular size packs of cigarettes overlying king size packs.

The invention claimed is:

1. A container in the form of a carton foldable from a flat bank and constructed to hold a plurality units of items, the items of each unit being of a different size, said container comprising a bottom, two sides, two ends and a cover, said sides being provided with gluing flaps, a spacing member located in said carton to abut one end of the items in one of said units, said spacing member comprising portions of said cover folded in facial engagement, flaps projecting from one of said portions, to serve as a brace for said spacing member.

2. A container in the form of a carton foldable from a flat blank and constructed to hold a plurality units of items, the items of each unit being of a different size, said container comprising a bottom, two sides, two ends and a cover, said sides being provided with gluing flaps, a spacing member located in said carton to abut one end of the items in one of said units, said spacing member comprising portions of said cover folded in facial engagement, flaps projecting from one of said portions, each flap overlying an end of said container thereby to serve as a brace for said spacing member to maintain said spacing member substantially perpendicular to the botttom of said container.

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