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COMBINATION PAPERBOARD BERRY BOX AND SNAP LID THEREFOR

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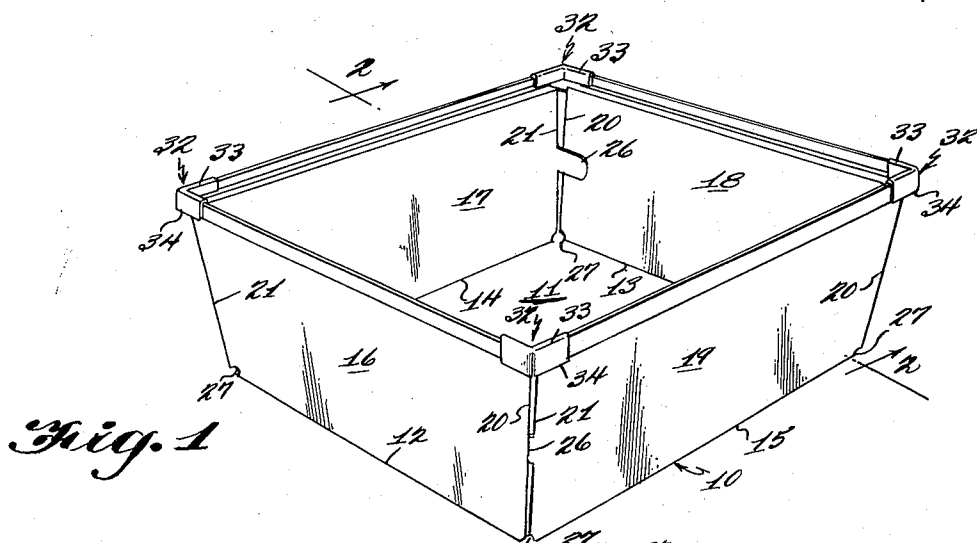


Fig. 1

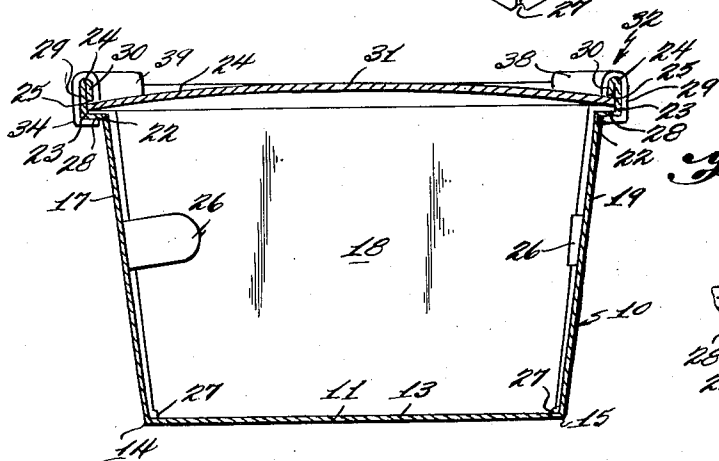


Fig. 2

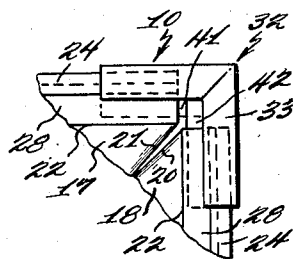


Fig. 4

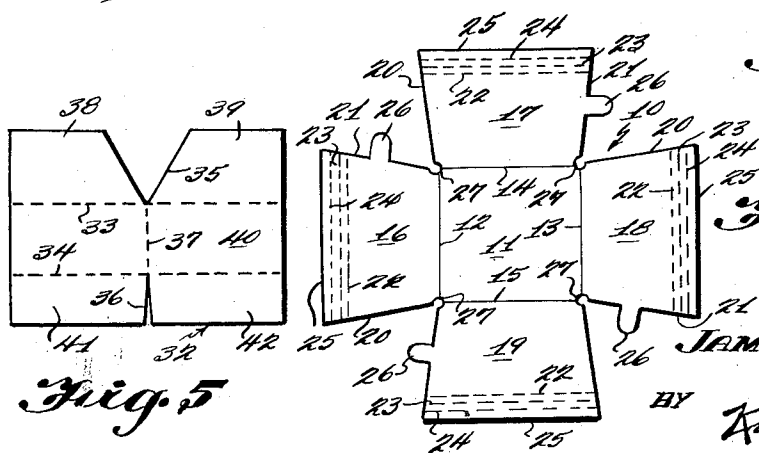


Fig. 5

Fig. 3

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5 Claims. (Cl. 229-16)

The present invention relates to combination paperboard berry boxes and snap lids therefor, and more particularly to such devices wherein the lid retaining structure also serves as a reinforcement for the top edges of the box.

The primary object of the invention is to provide a combination berry box and snap lid therefor formed of paperboard in which the box will have strength equal to or greater than that of a conventional wooden berry box.

Another object of the invention is to provide a paperboard combined box and snap lid therefor in which the boxes are so formed that they can be vertically nested for shipment to the point of filling.

A still further object of the invention is to provide a paperboard berry box and snap lid thereof which is inexpensive to manufacture, simple to use, and durable in hard service.

Other objects and advantages will become apparent in the following specification when considered in the light of the attached drawings, in which:

Figure 1 is a perspective view of the invention.

Figure 2 is a transverse cross-section taken along the line 2-2 of Figure 1, looking in the direction of the arrows.

Figure 3 is a plan view of the blank from which the box incorporating the invention is formed.

Figure 4 is an enlarged fragmentary plan view of one corner of the box illustrating the reinforcing construction.

Figure 5 is a plan view of the corner reinforcing element blank.

Referring now to the drawings in detail wherein like reference numerals indicate like parts throughout the several figures, the reference numeral 10 indicates generally a box constructed in accordance with the teachings of the invention.

The box 10 is formed of paperboard and consists of a rectangular bottom wall 11 having opposite parallel side edges 12 and 13 connected by opposite parallel side edges 14 and 15. A plurality of side walls 16, 17, 18 and 19 have their lower edges integrally joined to the side edges 12, 14, 13 and 15, respectively, of the bottom wall 11. Each of the side walls 16, 17, 18 and 19 are provided with opposite spaced apart outwardly flaring side edges 20 and 21. Each of the side walls 16, 17, 18 and 19 are further provided with an inner fold line 22, a medial fold line 23, and an outer fold line 24. Each of the fold lines 22, 23 and 24 being adjacent the outer edge 25 of each of the side walls 16, 17, 18 and 19.

The side edges 21 of each of the side walls 16, 17, 18 and 19 are provided with a laterally extending glue tab 26. Each corner of the bottom wall 11 is provided with a ventilation opening 27 which extends into the inner corners of the side walls 16, 17, 18 and 19, as illustrated in Figure 3, to ventilate the box 10.

The fold lines 22 and 23 in each of the side walls

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16, 17, 18 and 19 delineate a horizontal flange 28 extending outwardly from the side walls 16, 17, 18 and 19. The fold lines 23 and 24 delineate therebetween a vertically extending panel 29, the fold line 24 delineates a second vertical panel 30 extending therefrom to the outer edge 25. The second vertical panel 30 is reverted along the fold line 24 and is secured in parallel relation to the vertical panel 29, as best illustrated in Figure 2.

The outer edge 25 of each of the side walls 16, 17, 18 and 19 is vertically spaced above the horizontal panel 28 establishing a horizontal groove which is adapted to receive and hold the edges of a paperboard cover 31 with the paperboard cover 31 held to the box 10 by the outer edges 25 of the side walls 16, 17, 18 and 19.

A corner reinforcing member generally indicated at 32 consists of a generally rectangular blank having longitudinally extending spaced apart parallel fold lines 33 and 34 extending thereacross. A centrally positioned V notch 35 extends inwardly from one side edge of the member 32 intersecting the fold line 33. A second medially positioned notch 36 extends inwardly from the opposite side wall and intersects the fold line 34. A vertically extending fold line 37 connects the apices of the V notches 35 and 36 and extends parallel to the end edges of the member 32.

The V notch 35 establishes a pair of flaps 38 and 39 joined to a longitudinally extending body 40 along the fold line 33. The V notch 36 establishes a pair of flaps 41 and 42 joined to the longitudinally extending body 40 along the fold line 34. In the use of the reinforcing member 32 the longitudinally extending body portion 40 is folded along the fold line 37 at a right angle, and glued to adjacent end portions of the vertically extending panels 29. The flaps 38 and 39 are folded inwardly to overlies the vertically extending panels 30 and are glued thereto. The flaps 41 and 42 are folded inwardly at right angles to the body portion 40 and are glued in underlying relation to the horizontally extending flanges 28, with the flaps 41 and 42 having their adjacent edges overlapping, as best illustrated in Figure 4.

The horizontally extending flanges 28 provide a reinforcement for the upper edges of the side walls 16, 17, 18 and 19 against horizontal displacement while the vertically extending portions 29 and 30 reinforce these side walls 16, 17, 18 and 19 against vertical displacement. The provision of the reinforcing flanges 28 and portions 29 and 30 provides a berry box formed of paperboard having unusual strength characteristics such that the box 10 can be utilized for a great variety of products in the grocery field as well as in other fields.

Having thus described the preferred embodiment of the invention, it should be understood that numerous structural modifications and adaptations may be resorted to without departing from the scope of the appended claims.

What is claimed is:

1. A combined paperboard box and snap lid therefor comprising a rectangular bottom wall, a plurality of side walls having their bottom edges integrally joined to the side edges of said bottom wall, said side walls each having upwardly and outwardly flaring side edges, means on one of said side edges of each of said side walls for connecting said one side edge to the adjacent other side edge of the adjacent side wall, a horizontally extending flange projecting outwardly from the upper edge of each of said side walls, a vertically extending panel projecting upwardly from the outer edge of each of said horizontal flanges, a second vertically extending panel integrally joined to the upper edge of said first vertically extending panel and secured thereto inwardly thereof in spaced relation to said horizontal flange, a corner connector extend-

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ing between adjacent end edges of said side walls, and a resilient cover having its side edges engaged between said horizontally extending flanges and said second vertically extending panel.

2. A device as claimed in claim 1 wherein said means for connecting adjacent side edges comprises an integral glue flap formed on one side edge and overlapping the other side edge of adjacent side walls.

3. A device as claimed in claim 1 wherein each corner of said bottom wall and the lower corners of said side

walls are apertured for ventilation purposes.

4. A device as claimed in claim 1 wherein said corner

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connector comprises a longitudinally extending portion secured to said vertically extending panels, flaps overlying the top edge of said vertically extending panels and engaged against the inner faces of said second vertically extending panels, and a pair of flaps engaging under said horizontally extending flanges.

5. A device as claimed in claim 1 wherein said cover is formed rectangularly and has an upwardly bowed arcuate configuration.

No references cited.