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CONTAINER

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2 Claims

ABSTRACT OF THE DISCLOSURE

A substantially octangular carton comprised of a blank cut, scored and edgewise secured to form a collapsible tube erectible to provide top and bottom walls and relatively shallow side and end walls and inwardly foldable angular corner components to provide reinforcements for the top and bottom.

This invention relates to a novel package adapted for the packing of flat food products subject to damage by crushing such as cakes or pies, and is particularly adapted for the packaging of pizza pies. These packages are generally shallow and have relatively wide tops and bottoms subject to being deflected into contact with the contents.

This package was particularly developed to answer the problem of the tuck style carton used by the pizza industry which was found unsatisfactory for two reasons. First, that the top side center of the box has a tendency to warp down or cave causing the inside of the sheet to come in contact with the cheese or other ingredients on the top of the pizza bringing about adherence. Secondly, the style of carton is not compatible to stacking when the product is enclosed and very apt to crush and break down.

The present carton reinforces the corners at an approximate 45 degree angle thereby giving the exterior of the carton an octagon appearance. This support across the corners aids considerably in reducing damage to the pizzas by reducing the cave-ins or crush occurring when stacking. It also helps to alleviate warp of the carton board which could warp sufficiently to come in contact with the top surface of the product.

These supports across the corner when folded inwardly are scored at say a 45 degree angle. The dimension of this angle is determined to allow the outer circumference of the pie to clear without touching the angle side of the carton.

By using this special angle supported corner which is part of the one-piece construction of this package one can provide better stacking because the support is now closer to the circumference of the pizza. In bending in the corners as used in this style of carton there is eliminated the inner width flaps as used in the standard tuck style carton. One is able, however, to insert two tongue locks on the outer length flaps into the area formed when the 45 degree corners are bent into the body part of the carton. These tongue locks have a small slot lock which locks into the corners when inserted.

This style of carton can be made to fit all sizes of pizzas but the effectiveness of the supporting corners is more apparent on the larger sizes.

The invention, its details of construction, arrangement of parts and the advantages thereof will be further ap-

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parent from a consideration of the following specification and accompanying drawings, wherein:

FIG. 1 is a plan view of a blank cut and scored for forming the package of the present invention.

FIG. 2 is a fragmentary perspective view of one end of the blank of FIG. 1 partially folded or set up in tubular form, the opposed end being identical.

FIG. 3 is a view similar to that of FIG. 2 but with the characterizing corners folded inwardly.

FIG. 4 is a view progressive to that of FIG. 3 with the tuck flaps inserted; and

FIG. 5 is a perspective view of the entire set-up carton of the present invention.

Referring to the drawings, FIG. 1 shows a blank composed of the bottom panel 10 and a pair of top panel components 11—11 which are adapted to be sealed together by means of the narrow strip 12 to form a tube. The blank further comprises the relatively narrow side wall panels 13 hinged to and between the panel 10 and panel portions 11—11, the panels 13 extending above the normal terminal edges 14 of the panel 10 and the fold lines 15 of the panel portions 11—11.

The extensions of side wall panels 13 include opposed lateral triangular portions 16 which meet with the inclined fold or score lines 17 which in turn are directed inwardly to the transverse fold lines 18 in side walls 13, and define the triangular side wall portions 16'. The unitary triangular portions 16—16' are foldable on the score lines 19 from the position shown in FIG. 2 to that shown in FIG. 3 to against and between the top and bottom walls 11 and 10 in reinforcing relationship therewith and to provide the overall octagonal contour shown in FIG. 5.

The ends of the top and bottom panels are provided with interlocking end closure panels comprising the flaps 20 hinged medially to the bottom 10 and each formed with the medial slot 21, the flaps 20 being folded down first as shown in FIG. 3.

The top portions 11—11 have the flap portion 22 with a medial tongue 23 adapted to be received in slot 21. The flap 22 further has a spaced pair of hinged tongues 24—24 adapted to be received, in part, beneath the overfolded triangular portions 16—16', and are further notched at 25 for interlock and reception of flap 20.

I claim:

1. A substantially octangular carton comprised of a blank cut, scored and edgewise secured to form a collapsible tube erectible to provide top and bottom walls and relatively shallow side and end walls and inwardly foldable angular corner components to provide reinforcements for the top and bottom further comprising interlocking sets of closure flaps at and defining the end walls, and wherein the inwardly foldable angular corner components are defined by side wall extensions and contiguous extensions of the top and bottom walls, the latter extending angularly inwardly from said side wall extensions to the adjacent edges of said top and bottom walls, fold lines in said top and bottom walls extending angularly from the inner ends of said angular extension to said side walls and a transverse fold line in said side walls at the base of said inclined fold lines whereby the resulting triangular components in the top and bottom walls are foldable inwardly against the adjacent top and bottom walls with a portion of the side walls and their said extensions disposed therebetween in reinforcing relationship inclined to the intermediate portions of said side walls.

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2. The carton of claim 1 including interlocking sets of closure flaps defining the opposing end walls, each comprising a flap hinged intermediate the bottom wall and formed with a medial slot, a flap hinged to the top wall and adapted to overlie said first flap and formed with a tongue adapted to be received in said slot, and further including a spaced pair of hinged tongue adapted to extend beneath said infolded triangular corner portions and with slits at their inner ends for receiving the side edges of said first lap.

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