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V. V. JURZYNIEC
TISSUE CONTAINER

2,633,984

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2 SHEETS—SHEET 1

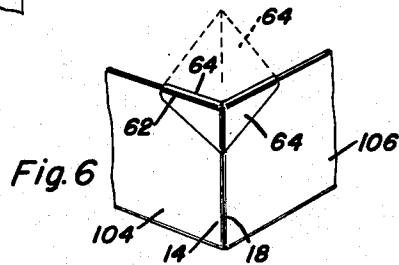
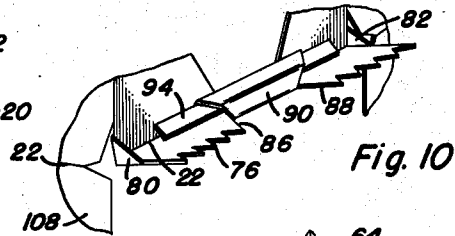
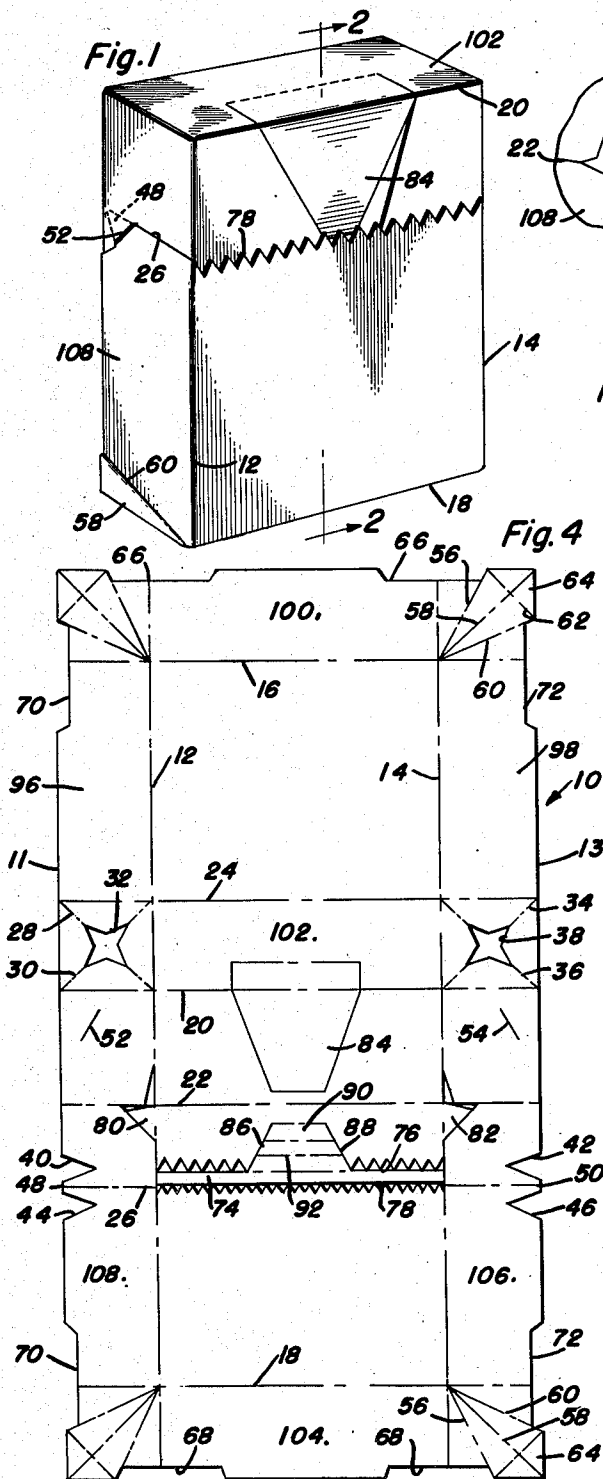
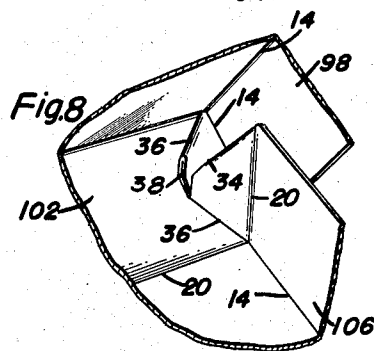
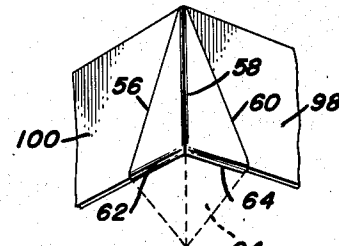


Fig. 7



Vincent V. Jurzyniec
INVENTOR.

BY *Chance A. O'Brien*
and Harvey E. Jacobson
Attorneys

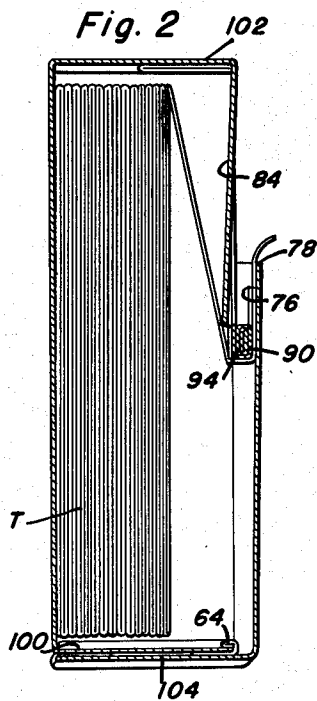
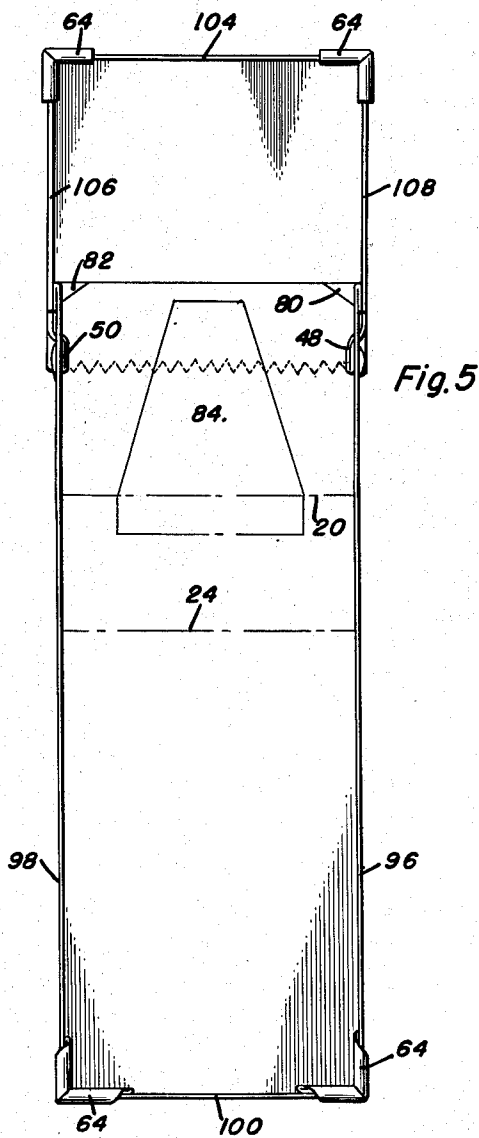
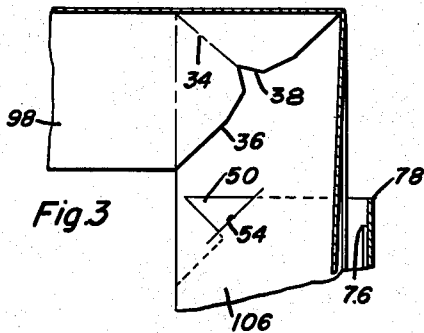
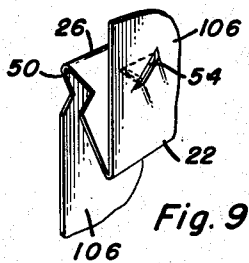
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2 SHEETS—SHEET 2



Vincent V. Jurzyniec
INVENTOR.

BY *Chance A. Prior*
and Harvey E. Jacobson
Attorneys

UNITED STATES PATENT OFFICE

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TISSUE CONTAINER

Vincent V. Jurzyniec, Fort San, Saskatchewan,
Canada

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10 Claims. (Cl. 206—57)

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This invention relates to new and useful improvements in containers and the primary object of the present invention is to provide a neat and attractive container for tissues that may be reused when a new supply of tissues is inserted into the container.

Another object of the present invention is to provide a tissue container having a discharge opening for tissues and novel and improved means mounted at the discharge opening where-by tissues or the like in the container may be quickly and readily divided at a predetermined and desired length.

A further object of the present invention is to provide a tissue container constructed from a single blank of foldable material, such as cardboard, and which is conveniently folded in order to retain the blank in the form of the container.

A still further aim of the present invention is to provide an inexpensive container for tissues and the like involving a novel and unique corner construction composed of bellows-like members that are retained contracted by interlocking tongues to retain the container in its desired form and to reinforce and strengthen the container.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the present container assembled for use;

Figure 2 is a longitudinal vertical sectional view taken substantially on the plane of section line 2—2 of Figure 1;

Figure 3 is a detail vertical sectional view through an upper corner of the container to illustrate the manner in which the forward half of the container is retained in reduced length;

Figure 4 is a plan view of the blank forming the present invention;

Figure 5 is a plan view of the container showing the forward and rear halves swung apart and also showing the upper and lower sections of the forward half held toward each other;

Figure 6 is a fragmentary perspective view of one corner of the rear half and with dotted lines showing the interlocking tongue for the corner raised;

Figure 7 is a fragmentary perspective view of one corner of the forward half and with dotted lines showing the locking tongue extended;

Figure 8 is a fragmentary perspective view of the inside of the corner where the forward and rear halves of the container are joined;

Figure 9 is a fragmentary perspective view illustrating the manner in which the upper and

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lower sections of the forward half are joined; and

Figure 10 is a fragmentary perspective view of the upper section of the forward portion and with its toothed edge folded outwardly to illustrate the pressure means used for the toothed edge of the upper section.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a substantially rectangular blank of foldable material, such as cardboard, as shown in Figure 4.

The material 10 is provided with two longitudinal fold lines 12 and 14 that extend throughout the length of the material adjacent the side edges 11 and 13 of the material. The material 10 is also provided with an outer pair of spaced parallel transverse fold lines 16 and 18 located adjacent the end edges of the material, an inner pair of spaced parallel transverse fold lines 20 and 22, and an intermediate pair of spaced parallel transverse fold lines 24 and 26. The fold lines 16, 18, 20, 22, 24 and 26 extend throughout the width of the material 10.

The substantially square portion of the material 10 bounded by the lines 12, 20, 24 and the side edge 11 is provided with intersecting diagonal fold lines 28 and 30 whose inner joined ends are each provided with tapered slots 32 that form a spider-like opening whose arms lie on the lines 28 and 30. The substantially square portion of the material 10 bounded by the lines 14, 20, 24 and the side edge 13 is also provided with intersecting diagonal fold lines 34 and 36 whose inner ends are formed with tapered slots 38 to form another spider-like opening whose arms lie on the lines 34 and 36.

The fold lines 28, 30, 34 and 36 are so arranged and the slots 32, 38 so placed as to permit the fold lines 30 and 36 to be folded upon themselves and then the fold lines 28 and 34 to be folded upon themselves as the material 10 is formed into a container.

The side edges 11 and 13 are provided with substantially V-shaped notches 40, 42, 44 and 46. The notches 40 and 42 are located between the lines 22 and 26 and close to the line 26 and the notches 44 and 46 are located between the lines 18 and 26 but close to the lines 26 and the notches 40 and 42 so that the material between the notches 40 and 44 will form a tongue 48 and the material between the notches 42 and 46 will form a tongue 50. The tongues 48 and 50 are adapted to extend into and through inclined slits 52 and 54 provided in the material 10 adjacent the side edges 11 and 13, and between the lines 20 and 22.

Each corner of the material 10 is provided with three relatively inclined fold lines 56, 58 and 60 which converge and meet at points where the

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lines 16 and 18 meet the lines 12 and 14. The fold lines 58 extend between the fold lines 56 and 60, and the outer ends of the fold lines 56 and 60 are connected by transverse fold lines 62 to permit the forming of corner tongues or tabs 64.

The end edges of the material 10 are provided with notches 66 and 68 adjacent the tongues 64 and the side edges of the material 10 are also provided with notches 70 and 72 adjacent the tongues 64. The edges defining the notches 70 and 72 form seats for the tongues 64 when the container is assembled. The corners above described may be considered as bellows-like members or corner-pieces that are retained contracted by the tongues 64.

A transverse, substantially rectangular, slot 74 is provided in the material 10 along the fold line 26 and between the area bounded by the lines 12, 14, 22 and 26. The longitudinal edges 76 and 78 of the slot 74 are toothed. The lines 12 and 14 are split from the edge 76 to and just beyond the lines 22. Tabs 80 and 82 are struck from the portion of the material between the lines 22, 26 and the side edges 11 and 13 and the lines 12 and 14 and these tabs are joined with the portion of the material 10 bounded by the edge 74 and lines 12, 14 and 22.

A flap 84 is struck from the material 10 and more particularly the area of the material 10 bounded by the lines 12, 14, 20 and 22 to provide an access to tissues or the like T within the finished container.

A pair of slits 86 and 88 are provided in the edge 76 and define therebetween a tongue 90 having fold lines 92 whereby the tongue 90 may be folded about a pressure strip 94 that is integrally formed with tongue 90. The edge 76 is then folded over the strip 94 and the tabs 80 and 82 folded under the portion of the material 10 bounded by the lines 12, 14, 20 and 22 to retain the edge 76 folded upon itself.

The fold line 20 divides the material 10 into forward and rear box-forming halves with the portions bounded by the lines 12, 16 and 24 and the lines 14, 16 and 24 forming the side walls 96 and 98 of the rear container half, the portion bounded by the lines 12, 14, 16 and one end edge of the rear half forming an end wall 100 for the rear half and the portion bounded by the lines 20, 24, 12 and 14 forming another end wall 102 for the rear half of the container.

The portion of the forward half bounded by the lines 12, 14, 18 and the end edge of the material 10 adjacent and parallel to the line 18 forms an end wall 104. The portion of the forward half bounded by the lines 14, 18, 20 and the side edge 13 forms a side wall 106 and the portion of the forward half bounded by the lines 12, 18 and 20 forms another side wall 108. The wall 102 constitutes an end wall for the forward half as well as the rear half.

The corners joining the side walls 106 and 108 to the end wall 104 are folded against the outer faces of the walls 104, 106 and 108 and overlap the adjacent ends of the walls 104, 106 and 108. The tongues 64 of these corners are folded inwardly against the inner faces of the walls 104, 106 and 108 to retain the wall 104 at right angles to the walls 106 and 108.

The corners joining the side walls 96, 98 and the end wall 100 of the rear half of the container are folded against the inner faces of the walls 96, 98 and 100 and overlap the adjacent ends of the walls 96, 98 and 100. The tongues 64 of these concealed corners are folded outwardly

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against the outer faces of the side walls 96, 98 and the end wall 100 to retain the wall 100 at right angles to the walls 96, 98.

The rear half is folded under the forward half along line 24 and the side walls 106, 108 and end wall 104 of the forward half overlap and cover the side walls 96, 98 and end wall 100 of the rear half.

The forward half of the container is longer than the side walls of the rear half of the container and the space between the edges 76 and 78 is rather large since the edge 76 is folded upon itself. This opening is reduced and the length of the forward container half also reduced by a folding of the side walls 106 and 108 along the lines 22 and 26 between the lines 12, 14 and the side edges 11 and 13.

Considering the forward container half as composed of upper and lower sections with the portions of the side walls 106 and 108 between the lines 20 and 22 as the side walls of the upper section and the portions of the side walls 106 and 108 between the lines 26 and 18 as the side walls of the lower section, the remaining portions of the side walls 106 and 108, located between the lines 22 and 26, constitute hinges that will overlie the side walls of the upper section and underlie the side walls of the lower section. The upper and lower sections are retained toward each other when the tongues 48 and 50 are inserted through the slits 52 and 54.

The tissue or folded material T disposed within the container and its leading end is extended through the opening 74 and upwardly between the edges 76 and 78 with the edges 76 urged against the edge 78 by the member or tongue 90 whereby the material T may be conveniently torn.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A tissue container comprising forward and rear box-like portions, said forward portion including upper and lower sections each having a pair of side walls, a pair of hinge strips forming part of the forward portion and joining the side walls of the upper section to the side walls of the lower section to permit the sections to be moved toward and away from each other, said strips being folded against the side walls of the upper section and under the side walls of the lower section so that the forward portion will be equal in length to the rear portion, said strips and the side walls of the lower section each having a V-notch therein to form tongues between the notches in the strips and the notches in the side walls of the lower section, and the side walls of the upper section having slits therein receiving the tongues to retain the sections toward each other.

2. A tissue container comprising forward and rear box-like portions, said forward portion including upper and lower sections each having a pair of side walls, a pair of hinge strips forming part of the forward portion and joining the side

walls of the upper section to the side walls of the lower section to permit the sections to be moved toward and away from each other, said strips being folded against the side walls of the upper section and under the side walls of the lower section so that the length of the forward portion will be equal to the length of the rear portion, said strips and the side walls of the lower section each having a V-notch therein to form tongues between the notches in the strips and the notches in the side walls of the lower section, and the side walls of the upper section having slits therein receiving the tongues to retain the sections toward each other, said forward portion having an opening therein for receiving tissues in the container, said opening being disposed between the upper and lower sections and being increased in area as the sections are moved away from each other.

3. A tissue container comprising forward and rear box-like portions, said forward portion including upper and lower sections each having a pair of side walls, a pair of hinge strips forming part of the forward portion and joining the side walls of the upper section to the side walls of the lower section to permit the sections to be moved toward and away from each other, said strips being folded against the side walls of the upper section and under the side walls of the lower section so that the length of the forward portion will be equal to the length of the rear portion, said strips and the side walls of the lower section each having a V-notch therein to form tongues between the notches in the strips and the notches in the side walls of the lower section, and the side walls of the upper section having slits therein receiving the tongues to retain the sections toward each other, said upper section including a toothed edge folded upon itself and said lower section including a toothed edge paralleling the toothed edge of the upper section and overlapping the toothed edge of the upper section.

4. The combination of claim 3 and means mounted under the folded edge of the upper section urging the toothed edge of the upper section toward the toothed edge of the lower section.

5. The combination of claim 4 wherein said means includes a reinforcing strip paralleling the toothed edge of the upper section, and a holding tab struck from the toothed edge of the upper section embracing the reinforcing strip.

6. A tissue container comprising forward and rear portions, said rear portion including a back wall, a pair of side walls, a pair of end walls and bellows-like corners joining the end walls to the side walls, means retaining the bellows-like corners associated with one end wall contracted, said forward portion including an end wall, a front wall and a pair of side walls, said side walls being hinged to the bellows-like corners at one end of the rear portion, said front wall being hinged to the end wall attached to the bellows-like corners joined with the side walls of the forward portion to permit the forward portion to be folded over the rear portion, additional bellows-like corners joining the end wall of the forward portion to the side walls of the forward portion, and means carried by the last-named bellows-like corners retaining the latter contracted, said front wall including a transverse slit, the edges defining the slit being toothed, one of said toothed edges being folded upon itself, and fold lines in the side walls of the forward portion permitting the length of the forward portion to be reduced and also permitting the toothed edges to overlap each other.

7. The combination of claim 6 and means mounted under the folded toothed edge for urging the folded toothed edge toward the other toothed edge.

8. The combination of claim 7 wherein said means includes a reinforcing strip and a foldable tongue struck from said front wall and surrounding the strip behind the folded toothed edge.

9. A tissue container constructed from a single blank of rectangular foldable material said blank comprising a pair of spaced parallel fold lines extending throughout the length of the blank of material and six spaced parallel transverse fold lines extending throughout the width of the blank of material, said transverse fold lines including an outer pair of fold lines, an inner pair of fold lines and an intermediate pair of fold lines, the portions of the material between the end fold lines, the end edges of the material and the longitudinal fold lines forming end walls, the portion of the material bounded by one of the inner pair of fold lines and adjacent intermediate fold line and the longitudinal fold lines forming another end wall, said adjacent intermediate fold line forming a hinge whereby one half of the material may be folded over the other half of the material to position the first named end walls one over the other, each corner of the blank of material having a plurality of fold lines to permit the first named end walls to be folded parallel to each other and to permit the portions of the material between the longitudinal fold lines and the side edges of the material to be folded perpendicular to the first named end walls to form side walls, the portions of the material bounded by the side edges of the material, the longitudinal fold lines, said one of the inner pair of fold lines and said adjacent intermediate fold line having diagonal intersecting fold lines therein to permit said second named end wall to be folded perpendicular to said side walls, the portions of said material bounded by said longitudinal fold lines, the side edges of the material, the other of said inner fold lines and the other of said intermediate fold lines being folded against said side walls, said blank of material having an opening therein to accommodate tissues in the container formed by the blank.

10. The combination of claim 9 wherein the side edges of the material are provided with two pair of V-shaped notches, one notch of each pair being located between the last mentioned inner fold line and the last mentioned intermediate fold line, and the other notches being located between the last mentioned intermediate fold line and the end fold line closest thereto whereby the material between adjacent notches form tongues, and slits in the material between the inner fold lines and in said side walls receiving the tongues during the operations for forming the container.

VINCENT V. JURZYNIAC.

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