Aug. 30, 1966 D. S. CVACHO 3,269,642

CONTAINER CONSTRUCTION

Filed Sept. 25, 1964 3 Sheets-Sheet 1

FIG-1

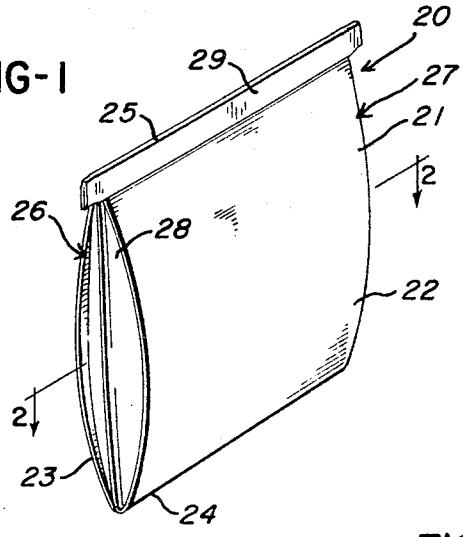


FIG-2

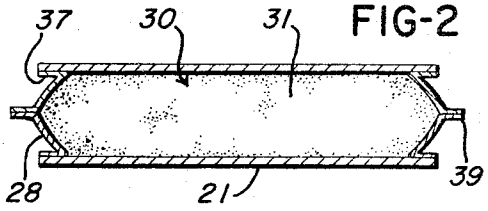


FIG-3

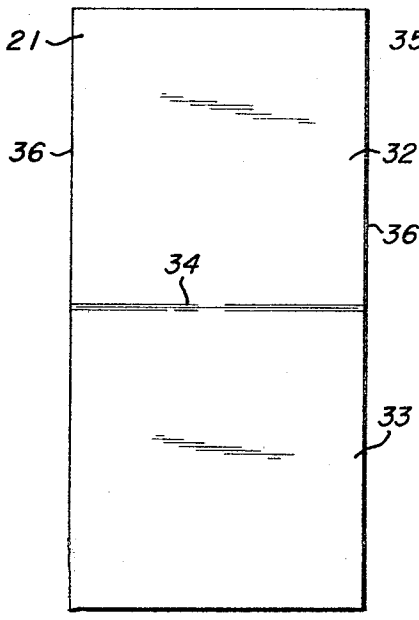


FIG-4

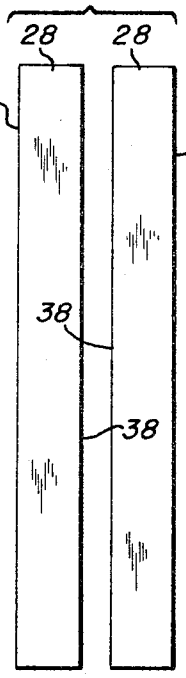
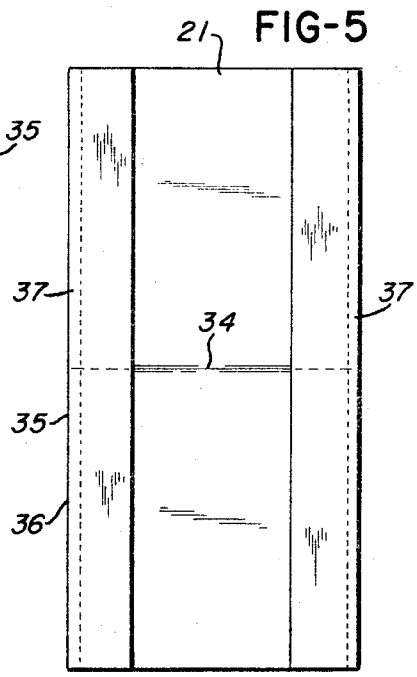


FIG-5



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Aug. 30, 1966 D. S. CVACHO 3,269,642

CONTAINER CONSTRUCTION

Filed Sept. 25, 1964 3 Sheets-Sheet 2

FIG-6

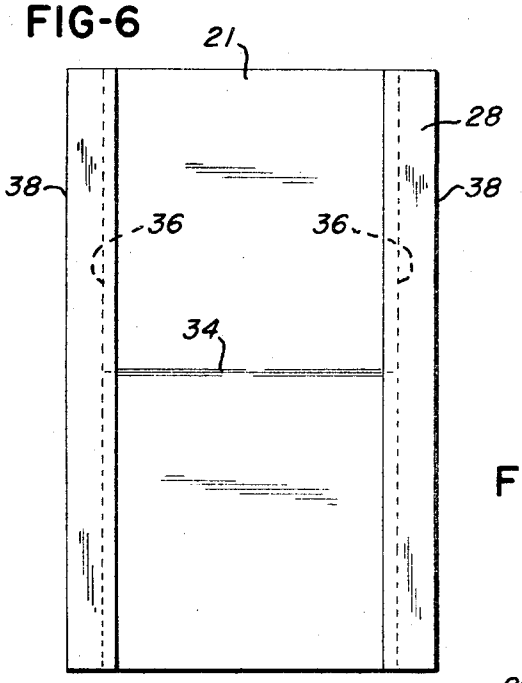


FIG-7

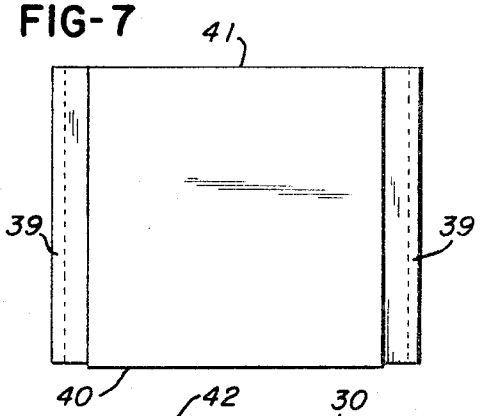


FIG-8

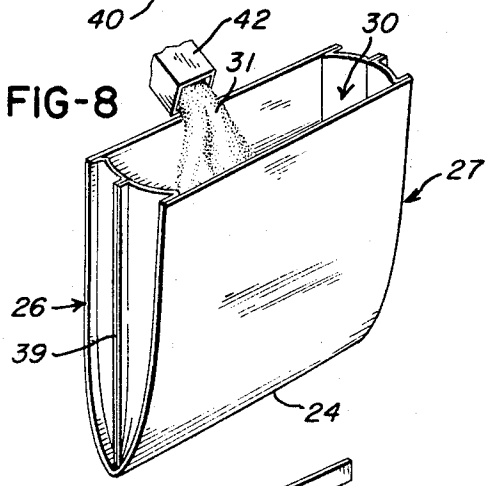


FIG-9

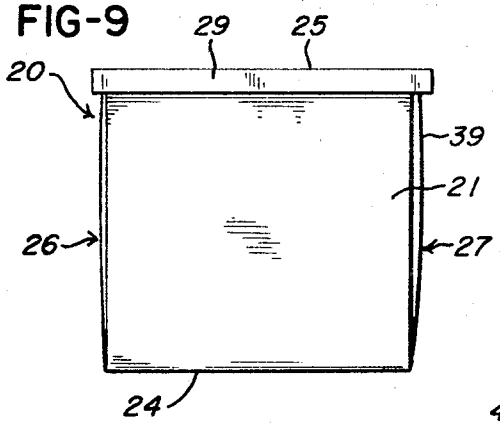
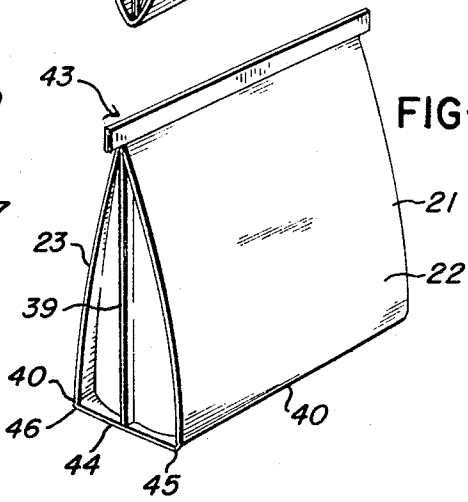


FIG-10



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Aug. 30, 1966 D. S. CVACHO 3,269,642

CONTAINER CONSTRUCTION

Filed Sept. 25, 1964 3 Sheets-Sheet 3

FIG-11

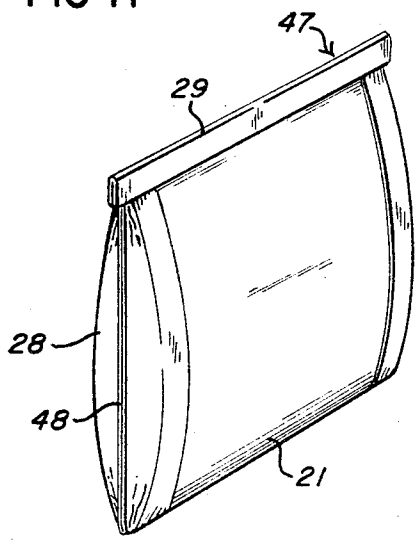
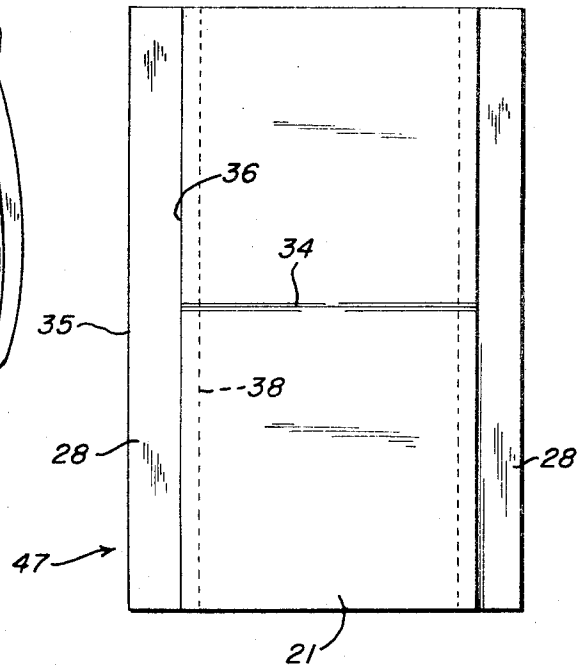


FIG-12



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United States Patent Office 3,269,642 Patented August 30, 1966

3,269,642

CONTAINER CONSTRUCTION

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Filed Sept. 25, 1964, Ser. No. 399,183
12 Claims. (Cl. 229—53)

This invention relates to an improved container construction as well as to the method of making such a container construction or the like.

It is well known from the copending patent application Serial No. 336,693, filed January 9, 1964, and entitled, "Container Constructions and Method for Making the Same or the Like," that a container construction can be formed by providing a rigid board means folded in any suitable manner to provide opposed side wall means and opposed top and bottom wall means with the resulting opposed open end wall means closed in a suitable manner by narrow, flexible tape-like means whereby the tape-like means and rigid board means cooperate together to define a product-receiving compartment in the container construction.

However, this invention provides improved means for interconnecting the narrow tape-like means to the rigid board means to complete the container construction of the above type.

Accordingly, it is an object of this invention to provide an improved container construction having one or more of the novel features set forth above or hereinafter shown or described.

Another object of this invention is to provide an improved method of making such a container construction or the like.

Other objects, uses and advantages of this invention are apparent from a reading of this description which proceeds with reference to the accompanying drawings forming a part thereof and wherein:

FIGURE 1 is a perspective view of one embodiment of the container construction of this invention.

FIGURE 2 is a cross-sectional view taken on line 2—2 of FIGURE 1.

FIGURE 3 is a plan view of the blank of the rigid board means for forming the container construction of FIGURE 1.

FIGURE 4 is a plan view of the tape-like means utilized to complete the container construction of FIGURE 1.

FIGURE 5 is a view similar to FIGURE 3 and illustrates one of the steps of the method of this invention.

FIGURE 6 is a view similar to FIGURE 5 and illustrates another step in the method of this invention.

FIGURE 7 is a view similar to FIGURE 6 and illustrates another step in the method of this invention.

FIGURE 8 is a perspective view illustrating one method of filling the container construction of FIGURE 1.

FIGURE 9 is a side view of the completed container construction of FIGURE 1.

FIGURE 10 is a view similar to FIGURE 1 and illustrates another embodiment of this invention.

FIGURE 11 is a view similar to FIGURE 1 and illustrates still another embodiment of this invention.

FIGURE 12 is a view similar to FIGURE 5 and illustrates one step in the method of making the container construction of FIGURE 11.

While the various features of this invention are hereinafter described and illustrated as forming particularly shaped container constructions or the like, it is to be understood that the various features of this invention can be utilized singly or in any combination thereof to provide container constructions having other configurations as desired.

Therefore, this invention is not to be limited to only the embodiments illustrated in the drawings, because the drawings are merely utilized to illustrate one of the wide variety of uses of this invention.

Referring now to FIGURE 1, an improved container construction of this invention is generally indicated by the reference numeral **20** and comprises a rigid board means **21** folded in a manner hereinafter described to define a pair of opposed side wall means **22** and **23** interconnected together at the bottom edges thereof to define a bottom wall means **24** and having the top edges thereof brought together to define a top wall means **25** whereby the rigid board means **21** defines a pair of opposed open end walls **26** and **27** of the container construction **20** which are subsequently closed by narrow, flexible tape-like means **28** of this invention in a manner hereinafter described, the container construction **20** being temporarily closed by another tape means **29** in a manner hereinafter described.

The tape-like means **28** and rigid board means **21** cooperate in a manner hereinafter described to define a product-receiving compartment **30** in the container construction **20** in the manner illustrated in FIGURE 2 so that the desired product **31** can be completely sealed closed in the container construction **20** for a subsequent sale to the ultimate consumer, the rigid board means **21** providing suitable projective material for the product **31**.

One method of forming the container construction **20** of this invention will now be described and reference is made to FIGURE 3 wherein it can be seen that the rigid board means **21** comprises a substantially rectangular blank divided into two equal sections **32** and **33** by a transversely disposed score **34**.

The tape-like means **28** of this invention comprises narrow rectangular strips as illustrated in FIGURE 4 and has one side thereof provided with heat sealable material. For example, each strip **28** can comprise heat sealable polyethylene or the like either by itself or in a laminated structure as desired.

The heat sealable side of the strips **28** are disposed against the inside surface of the rigid board means **21** in the manner illustrated in FIGURE 5 whereby the outer edges **35** of the strips of material **28** are disposed substantially in superimposed relation on the opposed side edges **36** of the blank **21**. In this manner, the outer edge means **35** of the strips of material **28** are adapted to be heat sealed to the interior surface of the blank **21** to define heat sealed seams **37** in the manner illustrated in FIGURE 5.

Thereafter, the strips of material **28** are folded outwardly in the manner illustrated in FIGURE 6 to bring the other edge portion **38** thereof outboard of the rigid board means **21** in the manner illustrated in FIGURE 6 whereby the assembly illustrated in FIGURE 6 can be folded on the score **34** to bring each tape-like means **28** into superimposed relation in the manner illustrated in FIGURE 7.

With the assembly folded in the manner illustrated in FIGURE 7, each tape-like member **28** is heat sealed to itself at the edge means **38** thereof to define longitudinal heat sealed seams **39** extending from the bottom edges **40** of the rigid board means **21** to the top edges **41** thereof. In this manner, the top edges **41** can be separated from each other in the manner illustrated in FIGURE 8 whereby the tape-like means **28** cooperate with the board means **21** to define the product-receiving compartment **30** in the assembly illustrated in FIGURE 8 so that the product **31** can be dispensed therein from suitable dispensing means **42** to fill the compartment **30**.

After the compartment **30** has been filled, the top edges **41** of the board means **21** are brought adjacent each other in the manner illustrated in FIGURES 1 and 9 and are sealed in their closed position by a tape-like member over-

lapping the edges 41 thereof so as to be secured to the opposed side wall means 22 and 23 and the be heat sealed to the seams 39 of the strips of material 28 to completely close the container construction 20 whereby an attractive and marketable container construction 20 is provided in a simple and effective manner.

When the ultimate consumer desires to open the package construction 20, the tape-like means 29 can be removed so that the top edges 41 of the side wall means 22 and 23 can be moved away from each other to open the chamber 31 to dispense the product out of the container construction 20, the tape means 29 being reusable, if desired, to reclose the container 20 when only a portion of the product 31 has been dispensed therefrom in the above manner.

While the container construction 20 of this invention has been illustrated as having the bottom wall means 24 thereof formed by a single score 34 in the rigid board means 21 in the manner illustrated in FIGURE 3, it is to be understood that a flat bottom wall could be provided for the container construction. For example, reference is made to FIGURE 10 wherein another container construction of this invention is generally indicated by the reference numeral 43 and parts thereof similar to the container construction 20 are indicated by like reference numerals. However, the rigid board means 21 illustrated in FIGURE 10 has the bottom edges 40 of the side wall means 22 and 23 integrally joined to a flat bottom panel 44 formed in the rigid board means 21 by spaced parallel scores 45 and 46 in substantially the same manner as set forth in the aforementioned copending patent application.

While the tape-like means 28 of this invention has been described as being secured to the inside surface of the rigid board means 21 to provide the container construction 20 or 43 of this invention, it is to be understood that the tape-like members 28 could be secured to the outside surface of the board means 21 to provide a container construction having certain of the features of this invention.

In particular, reference is made to FIGURE 11 of this invention wherein another container construction is generally indicated by the reference numeral 47 and comprises a rigid board means 21 formed in a manner similar to the rigid board means 21 of FIGURE 3.

However, the tape-like members 28 have the edge means 38 thereof secured to the outside surface of the rigid board means 21 in the manner illustrated in FIGURE 12 whereby when the lower portion of the assembly illustrated in FIGURE 12 is disposed on the upper portion thereof by folding the rigid board means 21 on the score 34, the edge means 35 of the strips of material 28 will be superimposed on each other and can be heat sealed together to provide longitudinal heat sealed seams 48 at the opposed end wall means 26 and 27 of the container construction 47 whereby the strips of material 28 are secured to the outside surfaces of the board means 21.

The container construction 47 is adapted to be closed and opened by the sheet means 29 in the manner previously described.

While the container constructions of this invention have been described as having the tape-like means heat sealed thereto and to itself, it is to be understood that the tape-like means could be secured to the rigid board means and to itself by other adhesive means, as desired.

Therefore, it can be seen that not only does this invention provide an improved container construction having many novel features, but also this invention provides an improved method for making such a container construction or the like.

While the form of the invention now preferred has been disclosed as required by the statutes, other forms may be used, all coming within the scope of the claims which follow.

What is claimed is:

1. A container comprising a substantially rectangular single sheet of relatively rigid wall means having opposed longitudinal edges, said sheet being transversely folded and defining opposed side wall means, bottom wall means and top wall means of said container whereby said folded sheet defines opposed open end wall means each having the edge thereof defined by one of said longitudinal edges of said sheet, and relatively flexible and narrow tape-like means closing said opened end wall means whereby said container has a product-receiving compartment defined by said wall means and said tape-like means, said tape-like means being secured to itself to provide longitudinal seams along said end wall means, said tape-like means comprising two strips of substantially rectangular material each having opposed longitudinal edges equal in length to the longitudinal edges of said sheet, each strip having one longitudinal edge thereof secured to a longitudinal edge of said sheet in aligned superimposed relation and having the other longitudinal edge thereof folded upon itself and secured to itself throughout the height of said container to define one of said seams of said container.

2. A container as set forth in claim 1 wherein said container has a substantially ellipsoidal cross-sectional configuration.

3. A container as set forth in claim 1 wherein said container has a substantially triangular cross-sectional configuration.

4. A container as set forth in claim 1 wherein said bottom wall means is formed by the bottom edges of said side wall means being disposed adjacent each other.

5. A container as set forth in claim 1 wherein said bottom wall means comprises a bottom panel interconnected to the bottom edges of said side wall means.

6. A container as set forth in claim 1 wherein said top wall means is formed by the top edges of said side wall means being brought adjacent each other.

7. A container as set forth in claim 6 and including a product means disposed in said compartment, and a tape-like member temporarily securing said top edges together to close said container.

8. A container comprising a substantially rectangular single sheet of relatively rigid wall means having opposed longitudinal edges, said sheet being transversely folded and defining opposed side wall means, bottom wall means and top wall means of said container whereby said folded sheet defines opposed opened end wall means each having the edge thereof defined by one of said longitudinal edges of said sheet, and relatively flexible and narrow tape-like means secured to the inside surface of said wall means and closing said opened end wall means whereby said container has a product-receiving compartment defined by said wall means and said tape-like means, said tape-like means being secured to itself to provide longitudinal seams along said end wall means, said tape-like means comprising two strips of substantially rectangular material each having opposed longitudinal edges equal in length to the longitudinal edges of said sheet, each strip having one longitudinal edge thereof secured to a longitudinal edge of said sheet in aligned superimposed relation and having the other longitudinal edge thereof folded upon itself and secured to itself throughout the height of said container to define one of said seams of said container.

9. A container comprising a substantially rectangular single sheet of relatively rigid wall means having opposed longitudinal edges, said sheet being transversely folded and defining opposed side wall means, bottom wall means and top wall means of said container whereby said folded sheet defines opposed opened end wall means each having the edge thereof defined by one of said longitudinal edges of said sheet, and relatively flexible and narrow tape-like means secured to the outside surface of said fall means and closing said opened end wall means whereby said container has a product-receiving compartment defined by said wall means and said tape-like means, said tape-like means being secured to itself to provide longitudinal seams along said end wall means, said tape-like means comprising two strips of substantially rectangular material each

having opposed longitudinal edges equal in length to the longitudinal edges of said sheet, each strip having one longitudinal edge thereof secured to a longitudinal edge of said sheet in aligned superimposed relation and having the other longitudinal edge thereof folded upon itself and secured to itself throughout the height of said container to define one of said seams of said container.

10. A container as set forth in claim **1** wherein each strip that forms said tape-like means has said one longitudinal edge thereof secured to the inside surface of said wall means and is folded back upon itself so that the same side thereof that is secured to said wall means is also secured to itself at said other longitudinal edge thereof.

11. A container as set forth in claim **10** wherein each said strip is heat sealable.

12. A container as set forth in claim **10** and including a produce means disposed in said compartment, and another tape-like means securing the top edges of said side wall means together to define said top wall means.

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