

July 19, 1949.

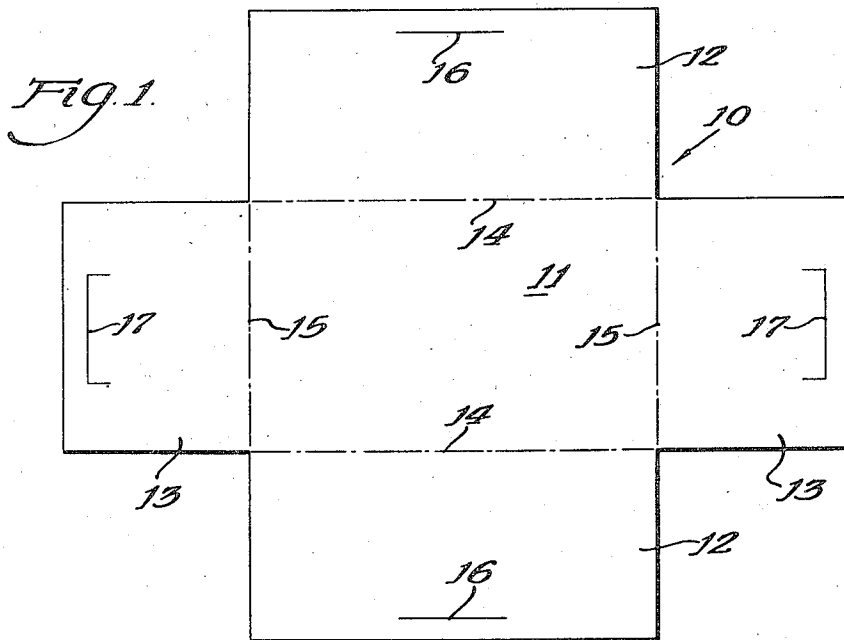
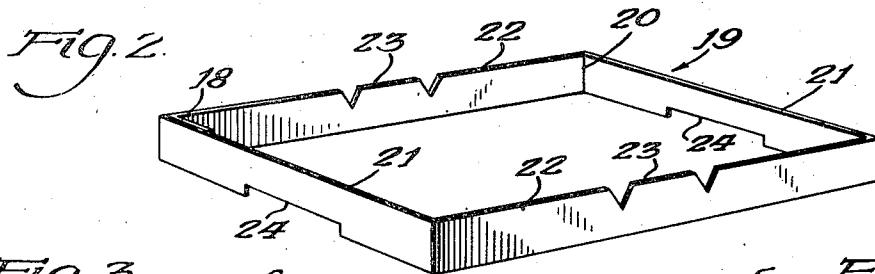
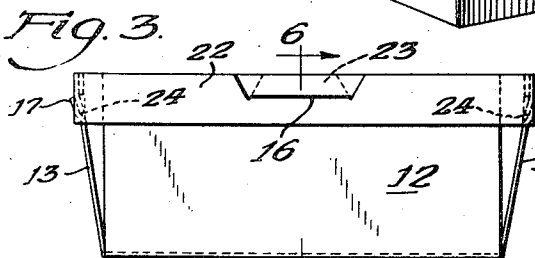
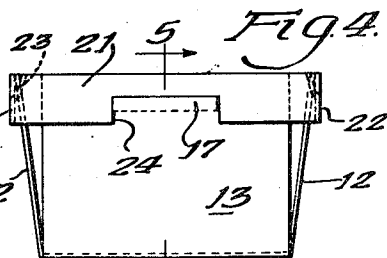
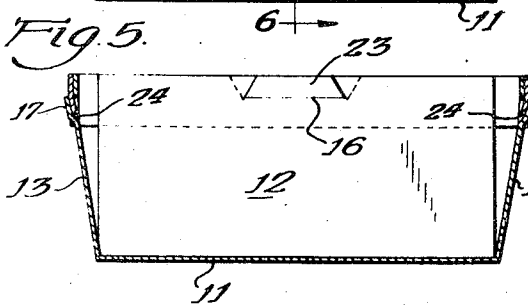
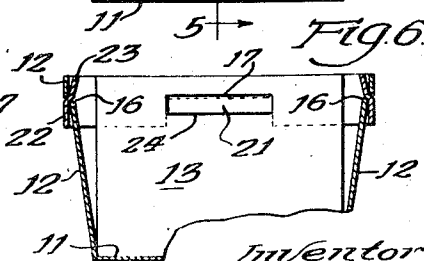
J. P. BURGOON

2,476,583

CONTAINER

Filed June 30, 1948

2 Sheets-Sheet 1



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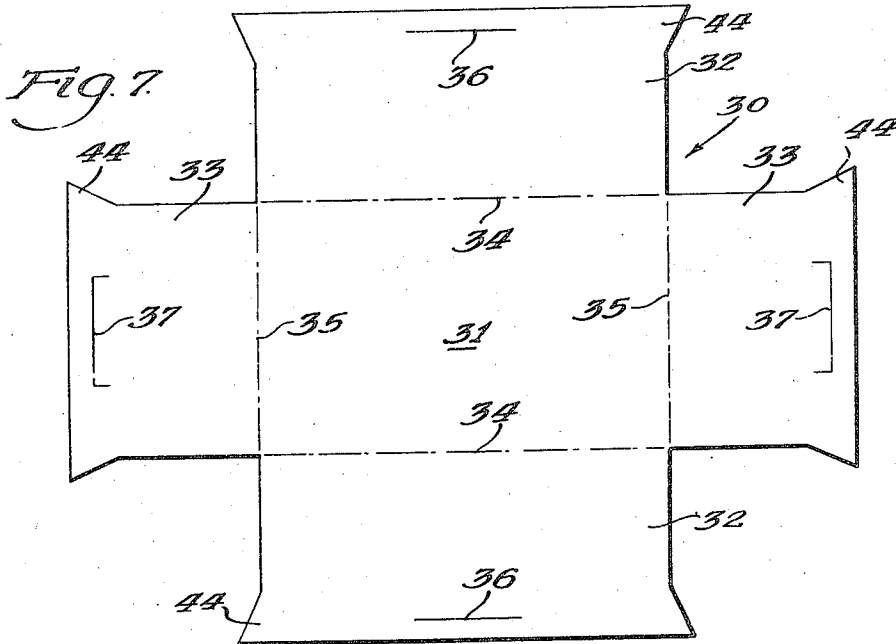
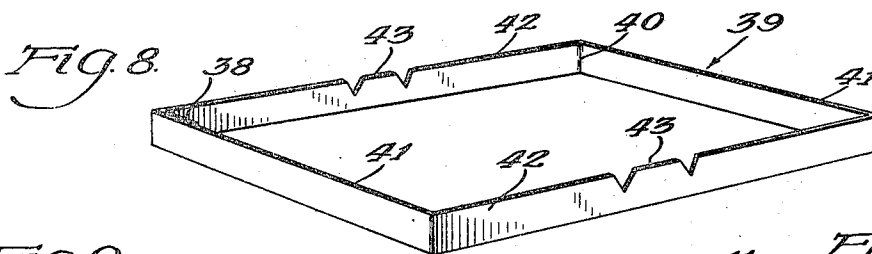
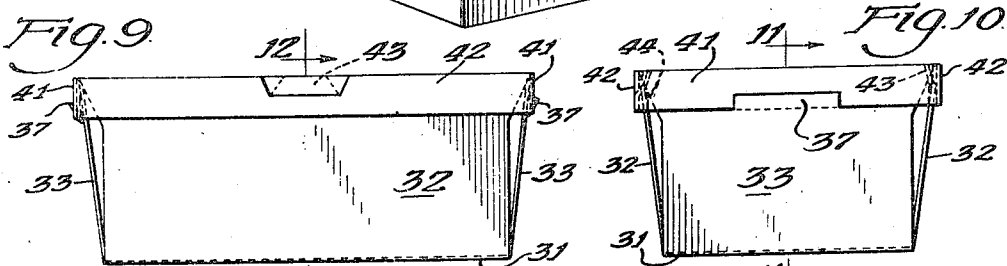
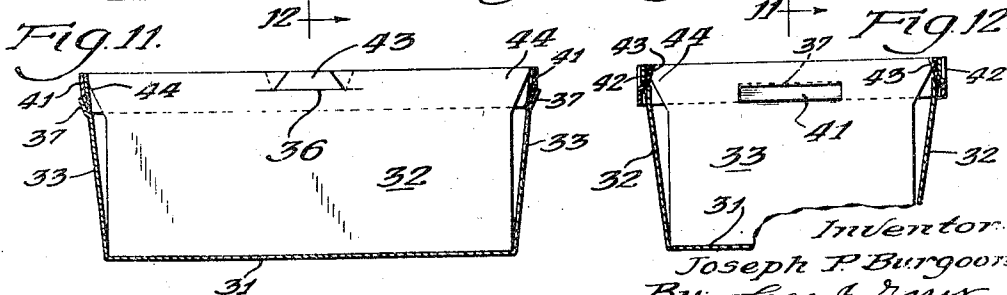
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2,476,583

CONTAINER

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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CONTAINER

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Application June 30, 1948, Serial No. 36,139

5 Claims. (Cl. 229-16)

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This invention relates to containers composed of foldable material, such as paperboard, and particularly to containers suitable for such uses as for the packaging and sale of fruits and other foods, or for the packaging and deep-freezing of such articles.

It is a particular object of the present invention to provide a container of the class described composed of a minimum of parts which can be transported in a "knocked down" condition and thereafter can be quickly and conveniently erected and assembled for use with a minimum of skill, and which yet withal forms a rigid and rugged construction suitable for the use intended.

In general, my invention comprises a body composed of a unitary blank cut and scored to define a bottom and integral side walls, and a separate endless band adapted to embrace the side walls adjacent their upper edge portion to form a reinforcement, the side walls and the band being formed with a complementary engagement means whereby the two components may be held firmly interlocked.

A further object relates to the construction of the container in a manner whereby the side edges are retained in upwardly and outwardly inclined position so that they may be internested after assembly and prior to filling.

A further object relates to the construction of the container whereby ventilating openings are maintained between the adjacent side edges of the container's side walls.

Further objects relate to details of construction and arrangement of parts, the economies of construction and facility of assembly, as will be more apparent from the following specification and drawings, wherein:

Fig. 1 is a plan view of a blank employed in one form of my container.

Fig. 2 is a perspective view of an endless interlocking band employed in combination with the blank of Fig. 1 for erection thereof.

Fig. 3 is a side elevational view of the erected container employing the components of Figs. 1 and 2, and Fig. 4 is an end elevational view thereof.

Fig. 5 is a section on the line 5-5 of Fig. 4 and Fig. 6 is a section on the line 6-6 of Fig. 3.

Fig. 7 is a plan view of a blank employed in a modified form of my container.

Fig. 8 is a perspective view of an endless interlocking band employed in combination with the blank of Fig. 7 for erection thereof.

Fig. 9 is a side elevational view of the erected container employing the components of Figs. 7

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and 8, and Fig. 10 is an end elevational view thereof.

Fig. 11 is a section on the line 11-11 of Fig. 10

Fig. 12 is a section on the line 12-12 of Fig. 9.

Referring to Figs. 1 to 6 of the drawings, the reference numeral 10 generally designates a blank cut and scored to define a base 11 having one opposed pair of side walls 12-12 and another pair of opposed side walls 13-13, all separated from each other at their side edges and integral with the base 11 and defined therefrom and foldable upwardly from the plane thereof on their respective score lines 14-14 and 15-15.

The blank 10 may be composed of such material as cardboard, and it may be provided with a moisture-proofing coating or impregnant such as a wax or a synthetic plastic. For the purpose of moisture resistance, the blank may be composed of laminated construction, including, for example, an intermediate ply of asphaltic material or the like well known moisture-resistant composite or laminated foldable material construction. The side walls 12-12 are further provided with slots 16-16 medially of and parallel to their outermost edges. Similarly, the side walls 13-13 are provided with slots to define the upwardly projecting tongues 17-17 inwardly of and adjacent and parallel to the outermost edges.

For the purpose of erecting the blank 10 into container form and for maintaining it in such position, I provide an elongated strip joined adhesively or by other means, as at 18, to form an endless band generally designated as 19 and suitably scored as at 20 to define four sections generally complementary to the wall-forming portions of the blank 10, that is, side wall portions 21-21 and side wall portions 22-22. The sections of the band 19 are, however, each of slightly greater length than the width of the respective panels they are adapted to overlie so that when the side walls of the blank 10 are elevated and surrounded by the band 19 and engaged in operative position, the side walls of the container will extend in an upwardly and outwardly inclined position with their adjacent side edges in spaced relationship to provide ventilated openings as illustrated in Figs. 3 to 6.

The side walls 22-22 of the band 19 are formed with upwardly extending tongues 23-23 and are adopted to be inserted within the slots 16-16. Preferably, the length of the slots 16-16 are substantially equal to the widths of the tongues 23-23 so that when they are inter-engaged lateral movement of the band sections 22-22 will

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be restricted relative to the side walls 12—12. The lower edges of the band sections 21—21 are adapted to be received within or beneath the tongues 17—17, and for the purpose of preventing relative lateral movement of the sections 21—21 with respect to the walls 13—13, the band sections 21—21 may be provided with downwardly opening notches 24—24, the width of the notches 24 being substantially equal to the width of the roots of the tongues 17—17 and adapted to closely overlie them.

Thus, when the side walls of the blank 10 are elevated and the endless band 19 engaged thereover and interlocked therewith by means of the aforesaid complementary tongues and slots, the band 19 will be held in restricted position upwardly or downwardly with respect to the side walls of the container and also against lateral movement thereon to provide a firm and compact construction composed of a minimum of parts and without bulk or exterior projections forming a simple nestable construction after assembly and immediately prior to filling.

If desired, as is well known, a transparent cover of suitable flexible material may be provided to retain the contents in the container by adhering same to the band 19 after assembly, such as by heat-sealing or otherwise. Also, for the purpose of packaging food products for the purpose of deep-freezing, my container with its contents may be positioned within suitable closure envelopes or bags, while forming therein suitably rigid holding, positioning or packaging means. Further, if desired, I may coat all or a portion of my container, after assembly, with suitable material to render it moisture-resistant or waterproof, as by coating or dipping it in wax or plastic coatings or impregnants.

Referring to the modified form of my invention shown by Figs. 7 to 12 of the drawings, the reference numeral 30 generally designates a blank cut and scored to define a base 31 having side walls 32—32 and 33—33, separated from each other at their side edges and integral with the base 31 and defined therefrom and foldable upwardly from the plane thereof on their respective scored lines 34—34 and 35—35.

The side walls 32—32 are further provided with slots 36—36 medially of and parallel to their outermost edges. Similarly, the walls 33—33 are provided with slots to define the upwardly projecting tongues 37—37 inwardly of and adjacent and parallel to the outermost edges.

For the purpose of erecting the blank 30 into container form and for maintaining it in such position, I likewise provide an elongated strip joined adhesively or by other means, as at 38, to form an endless band generally designated as 39 and suitably scored as at 40 to define four sections generally complementary to the wall-forming portions of the blank 30, that is, portions 41—41 and portions 42—42. The sections of the band 39 are, however, each of slightly greater length than the general width of the respective panels they are adapted to overlie but substantially equal to their width at the end portions provided with the side edge tabs 44, so that when the side walls of the blank 30 are elevated and surrounded by the band 39 and engaged in operative position, the side walls of the container will extend in an upwardly and outwardly inclined position with their adjacent side edges in spaced relationship to provide ventilated openings as illustrated in Figs. 9 to 12 but with the tabs 44 of adjacent walls in abutment.

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The side walls 42—42 of the band 39 are formed with upwardly extending tongues 43—43 and are adapted to be inserted within the slots 36—36.

Thus, when the side walls of the blank 30 are elevated and the endless band 39 engaged thereover and interlocked therewith by means of the aforesaid complementary tongues and slots, the band 39 will be held in restricted position upwardly or downwardly with respect to the side walls of the container and also by reason of close fit against lateral movement thereon to provide a firm and compact construction composed of a minimum of parts and without bulk or exterior projections forming a simple nestable construction after assembly and immediately prior to filling.

Although I have shown and described several embodiments of my invention, it will be apparent to those skilled in the art that other changes or modifications may be made in the details thereof without departing from the spirit of my invention.

In claim as my invention:

1. A collapsible container comprising a blank of foldable material cut and scored to define a polygonal base and separated side walls integral with said base and elevatable from the plane thereof, an endless band adapted to embrace said side walls in elevated position, and complementary tongue and slot means formed on said side walls and said band for engagement with each other to hold said side walls in erected position and arranged to restrict vertical movement of the band relative to said side walls.

2. A collapsible paperboard container comprising a blank cut and scored to define a rectangular base and separated side walls integral with said base and elevatable from the plane thereof, an endless band scored to define sections complementary to and adapted to embrace said side walls adjacent their upper edges with the side walls in an upwardly and outwardly inclined position, and complementary tongue and slot means formed on said side walls and said band for engagement with each other to hold said side walls in erected position and arranged to restrict vertical movement of said band relative to said side walls.

3. A collapsible paperboard container comprising a blank cut and scored to define a rectangular base and separated side walls integral with said base and elevatable from the plane thereof, and an endless band scored to define sections complementary to and adapted to embrace said side walls adjacent to their upper edges with the side walls in an upwardly and outwardly inclined position, an opposed pair of said side walls being formed with upwardly projecting tongues adapted to receive thereunder an opposed pair of said band sections, the other opposed pair of said band sections being formed with upwardly projecting tongues adapted to be inserted within slots formed in the other opposed pair of said side walls, to hold said side walls in erected position and said band restricted against vertical movement relative to said side walls.

4. A collapsible paperboard container comprising a blank cut and scored to define a rectangular base and substantially rectangular separated side walls integral with said base and elevatable from the plane thereof and having lateral projections adjacent their outer edges, and an endless band scored to define sections complementary to and adapted to embrace said side walls adjacent their upper edges with the side

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walls in upwardly and outwardly inclined position and their adjacent lateral projections in abutment, an opposed pair of said side walls being formed with upwardly projecting tongues adapted to receive thereunder an opposed pair of said band sections, the other opposed pair of said band sections being formed with upwardly projecting tongues adapted to be inserted within slots formed in the other opposed pair of said side walls, to hold said side walls in erected position and said band restricted against vertical movement relative to said side walls.

5. A collapsible paperboard container comprising a blank cut and scored to define a rectangular base and substantially rectangular separated side walls integral with said base and elevatable from the plane thereof, and an endless band scored to define sections complementary to and adapted to embrace said side walls adjacent to their upper edges, an opposed pair of said side walls being formed with upwardly projecting tongues adapted to receive thereunder an opposed pair of band sections having notched edge portions for extension over said tongue whereby

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to limit lateral movement of the engaged band sections relative to said side walls, the other opposed pair of said band sections being formed with upwardly projecting tongues adapted to be inserted within slots formed in the other opposed pair of said side walls of a length substantially equal to the width of the roots of the engaged tongues whereby to limit lateral movement of the latter band sections relative to said latter side walls, to hold said side walls in erected upwardly and outwardly inclined position and said band restricted against vertical movement relatively to said side walls.

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