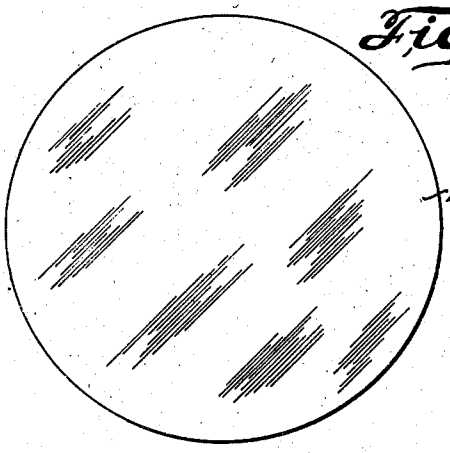
May 10, 1938. H. L. FREUND ET AL 2,116,567

CONTAINER

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Fig. 1.



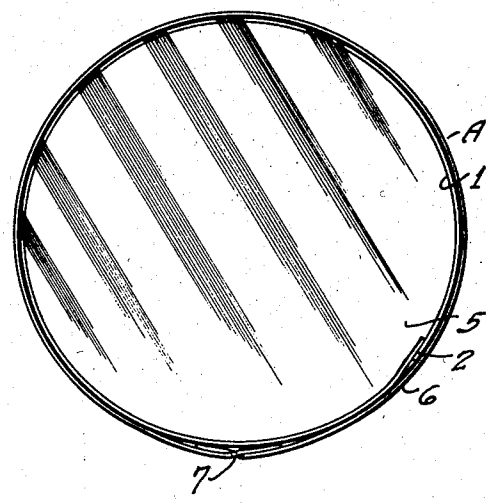


Fig. 3.

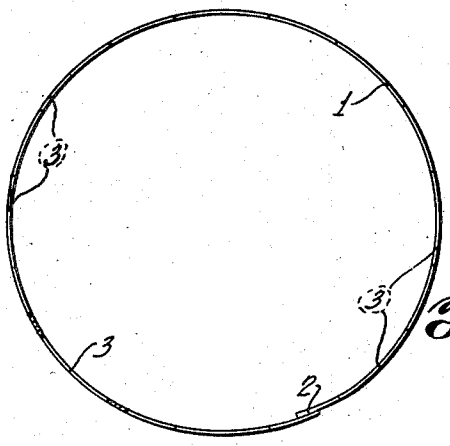


Fig. 5.

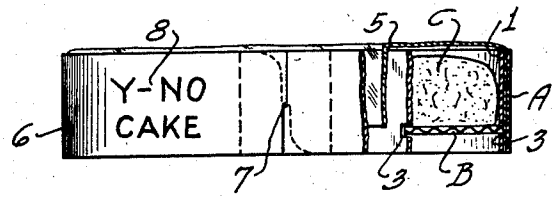


Fig. 2.

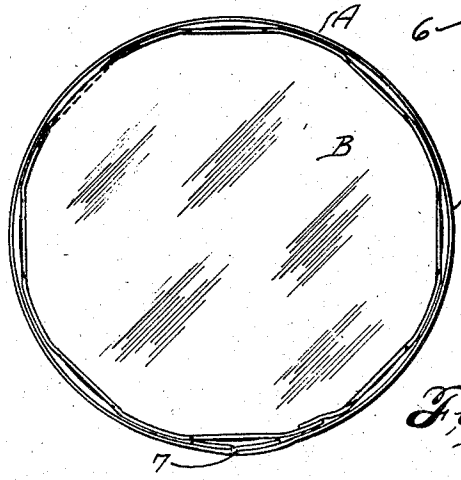


Fig. 4.

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Fig. 6.

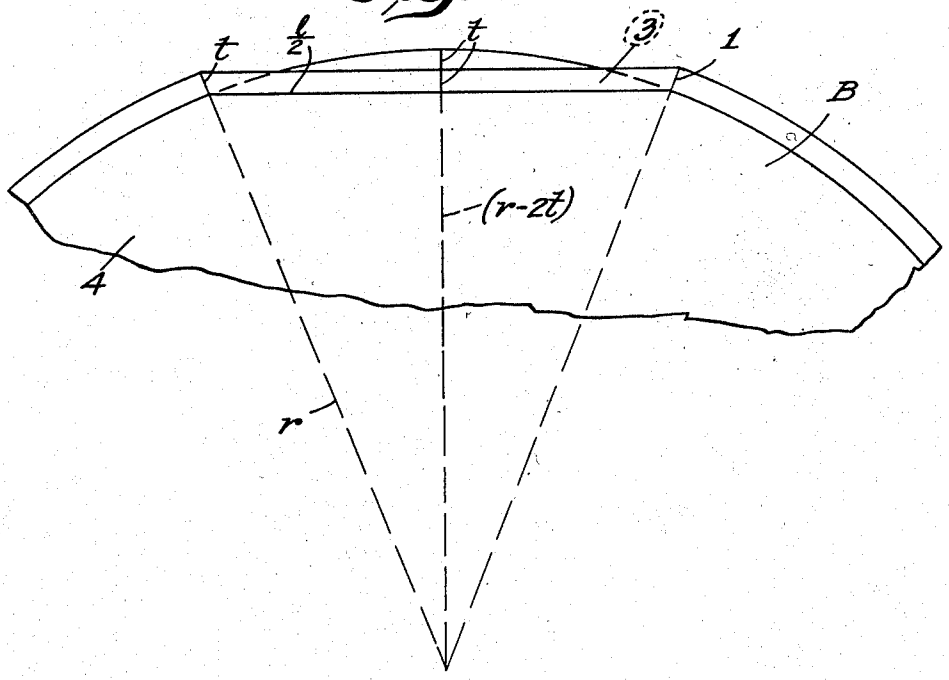
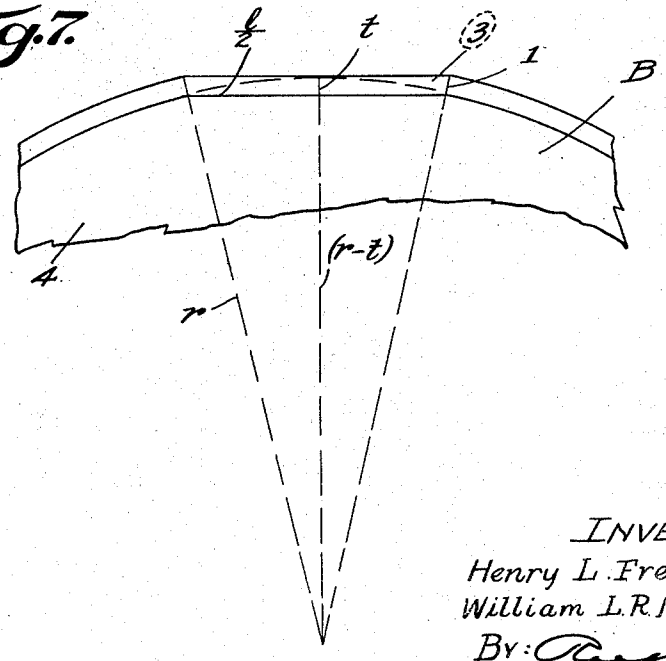


Fig. 7.



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UNITED STATES PATENT OFFICE

2,116,567

CONTAINER

Henry L. Freund and William L. R. Menges,
St. Louis, Mo.

Application January 31, 1936, Serial No. 61,689

7 Claims. (Cl. 206—44)

This invention relates generally to containers and, more particularly, to a certain new and useful improvement in containers for cakes, pastry, pies, and the like.

Our invention has for its object the provision of a container so constructed as to enable not only the marketing of the particular contents in fully wrapped, housed, and protected condition, but also the attractive visible display of such wrapped contents upon a counter, table, or other support.

Our invention has for a further object the provision of a container of the type and for the purpose stated, which is simple in form and structure, which may be readily and inexpensively manufactured, and which is exceedingly efficient in the performance of its intended functions.

And with the above and other objects in view, our invention resides in the novel features of form, construction, arrangement, and combination of parts presently described and pointed out in the claims.

In the accompanying drawings,—

Figure 1 illustrates the base or bottom-wall of a box or container of our invention;

Figure 2 is a side elevational view, partly broken away and in section, of the completed box or container;

Figures 3 and 4 are top and bottom plan views, respectively, of the box or container;

Figure 5 is a plan view of a side-wall of the box or container;

Figure 6 is an enlarged fragmentary plan view of the container showing one preferred form of inter-related co-operation between the slotted side-wall band and the bottom member; and

Figure 7 is an enlarged fragmentary plan view of the container showing a modified form of interrelated co-operation between the slotted side wall band and the bottom member.

Referring now more in detail and by reference characters to the drawings, which illustrate a preferred embodiment of our invention, 1 designates a section or strip of suitable weight cardboard or other like or suitable material, whose ends are brought around and adhesively or otherwise fixed together, as at 2, in the formation of an annular band, which, in turn, forms the inner member of the side-wall A of the box or container, the band 1 being of a desired height and diametrical dimension and, in suitable adjacence to its one or lower margin, being formed with an annular series of suitably spaced slots 3, each preferably, as shown, having a length equal to

$$4\sqrt{rt-t^2} \text{ or } 2\sqrt{2rt-t^2}$$

wherein r is the radius of the base-wall and t is the thickness of the inner band. It may also be stated that, since t is a fractional value, t^2 is for practical purposes negligible and may be dropped from the above formulae, which thus become

$$4\sqrt{rt} \text{ and } 2.82\sqrt{rt}$$

4 designates a disk of corrugated board or other like or suitable material, which diametrically, as best seen in Figure 1, is slightly larger than the band 1 and, in the formation of the container, is disposed flatwise with relation to and over the band 1 and then forcibly shifted downwardly within the confines of the band to the plane of the slots 3, when peripheral portions of the disk 4 protrude themselves into the respective slots 3. The band 1 is thereby somewhat distorted into and out-of-round form, when viewed in inverted plan, as seen in Figure 4, and then the disk 4 is mounted upon, and firmly joined to, the band 1 in the provision and formation of the base or bottom-wall B of the container.

The so joined or united band 1 and disk 4 provide an efficient receptacle of sufficient strength and rigidity for receiving the merchandise to be housed or marketed, as, for instance, a cake C of corresponding size, when a top-wall in the form of a sheet or section 5 of suitable preferably transparent paper, such as "Cellophane", is disposed over the cake or other contents C and the upper margin of the band 1 and its marginal portion folded down to depend upon the outer face of band 1.

A second section or strip 6 of suitable cardboard or the like is then wrapped, and locked or secured at its ends, as at 7, in band-formation, firmly and tightly around or about the band 1 and over the depending marginal portion of sheet 5. The band 6 thereby functions not only to fasten the sheet or top-wall 5 in container-closure and contents-covering position, substantially as a fixed box cover, but also in concealing the depending top-wall margin, the inner band 1 and its slots 3, and the outwardly protruding marginal portions of the bottom-wall 4. In effect, the outer band 6 completes the side-wall A of the container and, in addition, provides a convenient surface for the display of identifying or advertising matter, as at 8, of the container-contents.

It will be obvious that, while the container is of proper durability and sturdiness to withstand normal or usual handling, the wall 5 may be conveniently broken for removal of the container contents.

The box or container fulfills in every respect the objects stated, and it is to be understood that changes in the form, construction, arrangement, and combination of the several parts of the box or container may be made and substituted for those herein shown and described without departing from the nature and principle of our invention.

Having thus described our invention, what we claim and desire to secure by Letters Patent is,—

1. The method of packaging edible materials comprising forming an annular walled receptacle, placing the edible material within the receptacle, disposing a sheet of flexible covering material flatwise upon the upper marginal edge of the receptacle with the edges of the sheet extending beyond the wall, pivotally securing together the ends of an elongated strip in the formation of an annular outer band adapted to fit telescopically over the annular wall, deformably pivoting the outer band into a downwardly projecting arcuate V, and urging it downwardly over the annular wall and the sheet of material placed thereover in such a manner that the downwardly disposed V-shaped portion of the outer band initially engages the sheet of material and the upper edge, and finally reversely pivoting the outer band back into normal position whereby to bring the outer band downwardly into facewise embracing registration with the annular wall for grippingly securing the sheet of material therebetween and in taut disposition over the edible material.

2. The process of packaging edible materials comprising forming a circular disc of relatively stiff material, forming a relatively flexible annular band having a plurality of peripherally extending slots in the band and disposed in a spaced series therearound, permanently securing the ends of the band, forcing a circular disc into the annular band in registration with said slots and causing the peripheral edge segments of the disc to project through the slots in the formation of a receptacle, placing the edible material within the receptacle, laying a flexible transparent sheet of material flatwise across the upper margin of the annular band, pivotally securing together the ends of an elongated strip in the formation of an annular outer band adapted to fit telescopically over the annular wall, deformably pivoting the outer band into a downwardly projecting arcuate V, and urging it downwardly over the annular band and the sheet of material placed thereover in such a manner that the downwardly disposed V-shaped portion of the outer band initially engages the sheet of material and the upper edge, and finally reversely pivoting the outer band back into normal position whereby to bring the outer band downwardly into facewise embracing registration with the annular band for grippingly securing the sheet of material therebetween and in taut disposition over the edible material.

3. A container comprising a relatively stiff preformed bottom member having a definite peripheral length, a flexible strip preformed as a continuous wall member having unbroken continuity throughout its periphery and having a peripheral length somewhat smaller than the definite peripheral length of the bottom member and being provided with a continuous series of peripherally extending slots, said bottom member and wall member being assembled by forcing the bottom member into the wall member and into registration with said slots in which assembled relation, portions of the peripheral edge of the bottom member project through the slots, the portions of said peripheral edge, intermediate the projecting portion being extended outwardly beyond the straight line between the adjacent ends of two successive slots for tight abutting engagement with the inner face of the wall member.

4. A container comprising, an elongated flexible strip having its ends permanently joined in the formation of a wall band of definite peripheral length and having a plurality of elongated peripherally extending slots formed therein adjacent to one edge and extending therearound in a spaced series, and a relatively stiff flat bottom member having a peripheral length greater than the corresponding peripheral length of the slotted band, said bottom member and said band being assembled by forcing said member into the band to a position with portions of its peripheral edge in said slots and intermediate portions of its peripheral edge extending beyond the straight line between the adjacent ends of two successive slots in compressive engagement with the inner face of the wall member.

5. A container comprising, a flexible annular wall band having an annular series of elongated peripherally extending slots adjacent to one edge, and a relatively stiff bottom member of substantially disc form having transverse dimensions slightly greater than the corresponding inner diametral dimensions of the slotted portion of the band and said bottom member being sufficiently flexible to allow forcing of said member into the band to a position with portions of its peripheral edge in said slots, and intermediate portions of said edge being disposed beyond the straight line between adjacent ends of two successive slots in engagement with the inner face of the wall member.

6. A container comprising an elongated strip having its ends permanently joined in the formation of a cylindrical wall band of definite peripheral length, said wall band being provided with a plurality of elongated peripherally extending slots formed therein adjacent to one edge and extending therearound in a spaced series, a relatively stiff bottom member of substantially disc-like form being in peripheral length greater than the corresponding peripheral length of the slotted band, said bottom member and said band being assembled by forcing said member into said band to a position with portions of its peripheral edge in said slots and intermediate portions of said edge being disposed convexly outwardly in engagement with the inner face of the wall member.

7. A display container comprising, a sidewall of annular band-like form of unbroken continuity throughout its periphery having a plurality of elongated peripherally extending slots extending substantially circumferentially adjacent to one edge, a bottom member of disc-like form within the sidewall member having a peripheral length greater than the peripheral length of said sidewall member, and also having portions of its edge received and protruding through said slots and intermediate portions of its edge disposed convexly in engagement with the wall member, a sheet of covering material placed over the top edge of the sidewall member and having marginal portions extending downwardly over said sidewall and in registration with the protruding edges of the bottom member, and an outer cover retaining band having a width substantially equal to the width of the sidewall telescopically fitted down over the sidewall portion to hold the marginal edges of the cover sheet against the wall member and to conceal said wall member and the slots and the edges of the bottom member.

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