Oct. 3, 1933. G. R. EISENHAUER 1,929,139

TRANSPARENT NONBREAKABLE COVER

Filed Dec. 29, 1932

Fig. 1

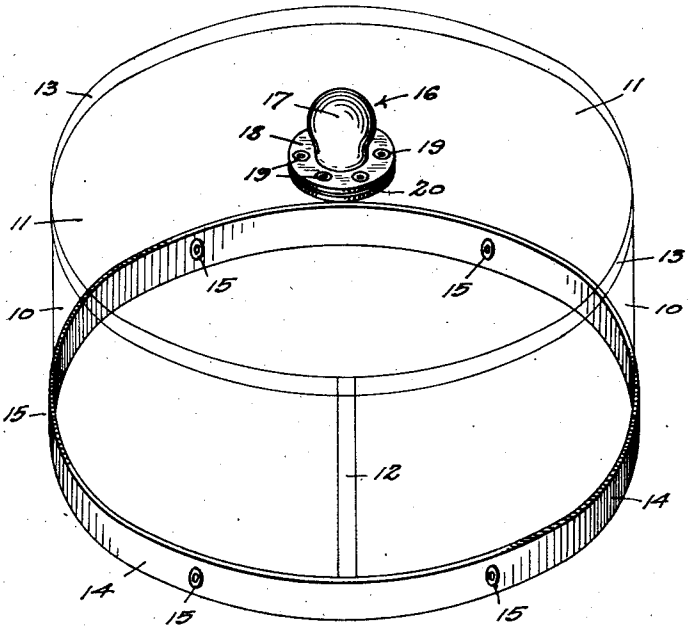


Fig. 4.

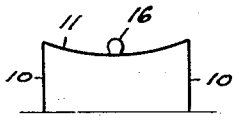


Fig. 5.

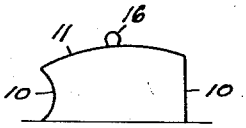


Fig. 2.

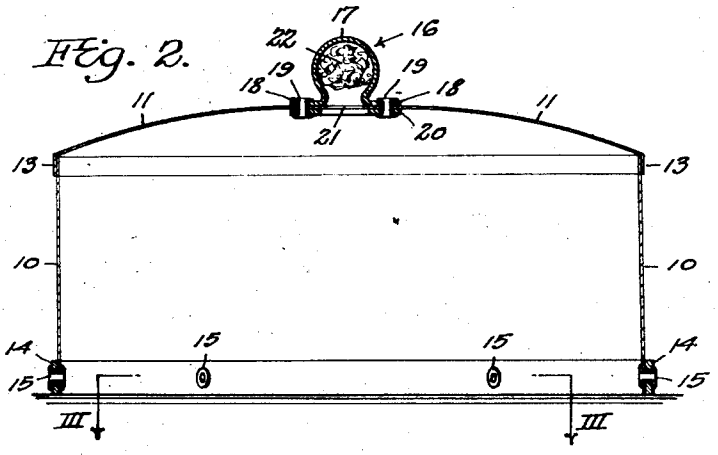
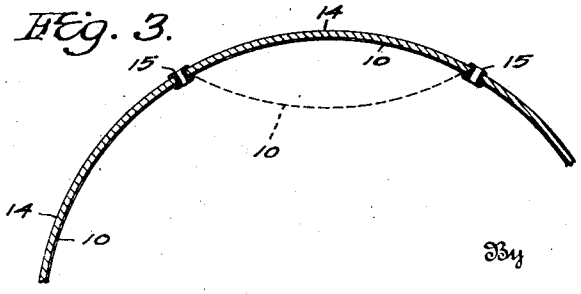


Fig. 3.



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TRANSPARENT NONBREAKABLE COVER

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Serial No. 649,422

3 Claims. (Cl. 65—16)

This invention relates to display covers, such as are used at restaurants and soda fountains, for cakes, pies and the like.

Such covers, as heretofore manufactured, have customarily been made of glass, and, while this construction provides the essential feature of transparency, the covers suffer from certain disadvantages, such as, undue weight and liability to breakage.

The principal object of this invention is to provide a display cover of the type mentioned which will be transparent to such a high degree as to verge on the invisible, which will be extremely light in weight, and which will, for all practical purposes, be indestructible.

Another object of the invention is to provide a display cover which will be possessed of great flexibility and resiliency so that should any portion of it be distorted, as a result of dropping or other careless handling, it will immediately spring back to normal position.

A further object of the invention is to provide the display cover at a low cost.

With these and other objects in view, such as will hereinafter be more clearly set forth, the invention consists, in general, of the structural characteristics, arrangement of parts and combination of elements illustrated in the accompanying one sheet of drawing, described in the following specification and specifically pointed out in the appended claims.

In the drawing, wherein like characters of reference are used to indicate like parts in the several views:

Figure 1 is a perspective view of a display cover constructed in accordance with and embodying the features of this invention;

Figure 2 is a central vertical sectional view of the same;

Figure 3 is a transverse sectional view on the line III—III of Figure 2; and,

Figures 4 and 5 are diagrammatic views illustrating distorted positions of parts of the cover.

Referring, in the first instance, to Figures 1 and 2 of the drawing, there is shown a display cover having an annular side member 10 and a circular top member 11 secured to the upper edge thereof. These two members are to be made of a transparent material, which is light in weight, tough and durable and of great flexibility and resiliency. The preferred material is "Pyralin", a modified form of celluloid.

The member 10 is preferably formed with a flat strip bent into annular form having its ends overlapped, as at 12, and united by means of a colorless, transparent and flexible cement. The preferred cement is acetone, applied under pressure, said acetone serving to slightly dissolve the two meeting surfaces of the overlap 12 of member 10, and permitting them to integrally unite or weld together when the pressure is removed and the dissolved portions again solidify, thereby making a perfectly transparent and substantially invisible joint.

The circular top member 11 is preferably provided with a down turned peripheral flange 13, which is shaped in very hot water over a proper form, taken out and allowed to cool by which it retains the shape of the die in which it was enclosed.

Said flange 13 is also united in proper manner to the upper edge of the member 10, in the same manner with acetone, as previously described in connection with the overlap 12, with the same result in effecting an integral transparent and invisible corner, as illustrated, and without any other visible securing means. The top member 11 is also upwardly bowed for the purpose of adding strength to the finished structure and permitting said top to be slightly depressed inwardly and thereby prevent any strain or distortion of the upper edge of the upright wall of member 10.

The lower edge of the side member 10 is preferably provided with an external metallic reinforcing band 14 secured thereto in any desired manner. The preferred manner is by means of a plurality of properly spaced centrally apertured metallic rivets 15, which also serve as ventilators to the interior of the cover.

In order to provide for quick and easy handling of the cover, the top member 11 is provided with a centrally disposed external knob or handle 16. This knob is preferably metallic and consists of a central body member 17 and an edge flange 18, the latter lying flush with the surface of the member 11 and being secured thereto. Here, also, the preferred manner of effecting the connection is by means of centrally apertured metallic rivets 19, which, likewise, serve as ventilators. At the point where the knob is fastened to the top member, an inner reinforcing metallic ring 20 is preferably provided, the size and position of this ring coinciding with the flange 18, and the ring being engaged and retained by the inner ends of the rivets 19.

Should it be so desired, a central aperture 21 may be provided in the top member 11 of the cover to permit access to the inside of the knob

16. A moistened material 22 may be inserted therein to act as a humidifier and prevent too rapid drying of any article which is on display beneath the cover.

A display cover, which is constructed as described, will be not only transparent but will be extremely light in weight, tough and durable, and very flexible and resilient. It may be dropped or otherwise carelessly or clumsily handled without damage to itself or to anything upon which it might fall. Should it be desired to wash that portion lying against the inner face of the bottom reinforcing band 14, the portions of the member 10 lying between adjacent rivets 15 may be pushed inwardly, as shown by dotted lines in Figure 3, to permit access thereto.

Should the top of the cover be pushed downwardly, as shown in Figure 4, should the side be pushed inwardly, as shown in Figure 5, or should any part of the cover be compelled to assume any other distorted position, it will, owing to its inherent flexibility and resilience, spring back into normal position as soon as the distorting force or pressure is removed, due, as described, to the moulded top 11, and thereby permit the metal reinforcing band 14 to preserve its circular form.

From the foregoing described construction and arrangement of the apertured rivets 15 and 19 in the lower band 14 and flange 18 and ring 20 of hollow handle 16, the cool air can enter through said apertured rivets 15 and the warm air can escape through the upper apertured rivets 19, and sufficiently ventilate the interior of the display cover to prevent the cake, bread, or other food on display from becoming mouldy or tainted.

Also, the spaced relation of said rivets 15 in the lower band 14 permits the free or unattached portions of the lower edge of the band 14 between said rivets 15 to be bent inwardly and away from the band 14, as indicated in Figure 3, thereby allowing the easy cleaning of the bottom edge of said cover and permit the ready removal of any crumbs of bread or cake which might be lodged between said band 14 and member 10, and insures the sanitary display of the food.

Furthermore, a display cover constructed as described will not only possess the advantages set forth, but will also be economical to manufacture and will give full protection to the food attractively displayed from any coughing, handling, sneezing, breathing, dust, flies and other insects, and fully satisfying all the requirements of the health and sanitary regulations.

While the form and structure shown and described is to be preferred, it is to be understood that this invention is not limited in such manner, as modifications and alterations are contemplated, and such are to be understood as forming a part of this invention insofar as they fall within the scope of the appended claims.

What I claim is:

1. A display cover of the character described having a circular top and side members of a thin light weight, transparent, flexible and resilient material, and a reinforcing circular band secured to the outside of the lower portion of the side member, at separated and independent points at a distance from each other and in such a manner to permit the sections of the lower portions of the side member between said separated and independent points be displaced inwardly from said band.

2. A display cover of the character described having a top and side members of a thin light weight, transparent, flexible and resilient material, a circular reinforcing band at the lower portion and outer sides of said side member, a series of separated and independent apertured rivets at such a distance from each other and passing through said band and lower portion of said side member to secure said side member and band together and permit the sections of the lower portion of the side member between said separated rivets be displaced inwardly from said band, and a circulation permitted through said rivets into the interior of the cover.

3. A display cover of the character described having a top and side members of a thin light weight, transparent, flexible and resilient material, a knob with flange secured to the center of the top member by means of apertured rivets passing through said flange and top member, a reinforcing band at the lower portion and outer side of said side member, a series of separated and independent apertured rivets at such a distance from each other and passing through said band and lower portion of said side member to secure said side member and band together to permit the sections of the lower portion of th side member between said separated rivets be displaced inwardly from said band, and circulation permitted through said rivets into the interior of the cover.

GEORGE R. EISENHAUER.