Oct. 31, 1933. P. W. MILLER 1,933,276

PAPER DISH AND HOLDER

Filed Feb. 3, 1933 2 Sheets-Sheet 1

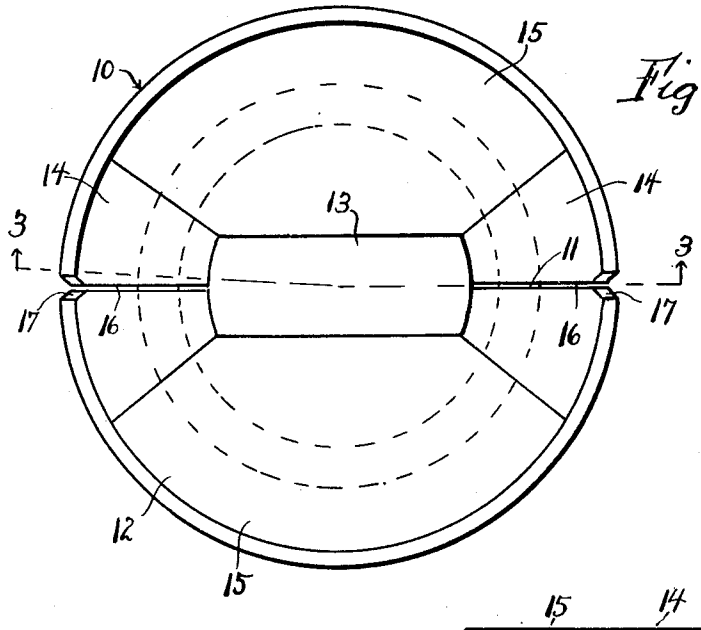



Fig. 1.

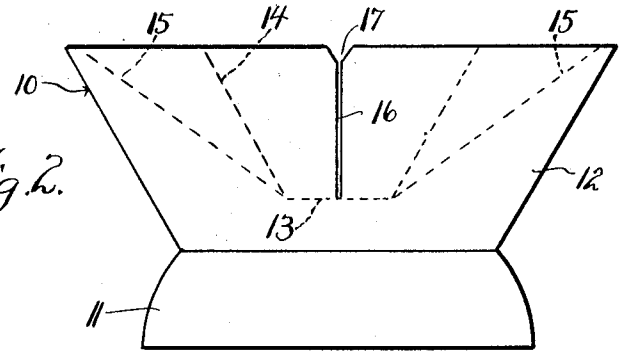



Fig. 2.

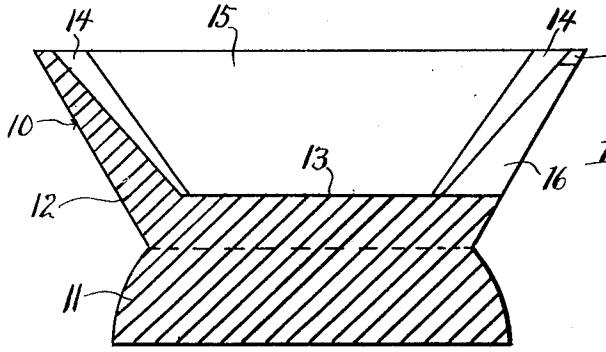



Fig. 3.

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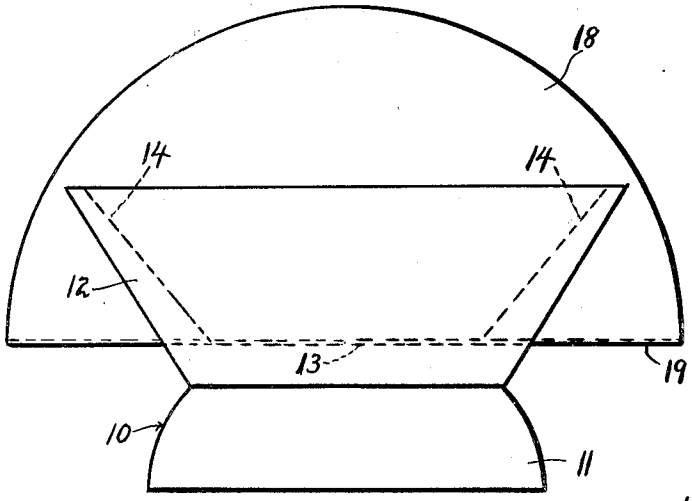



Fig. 4.

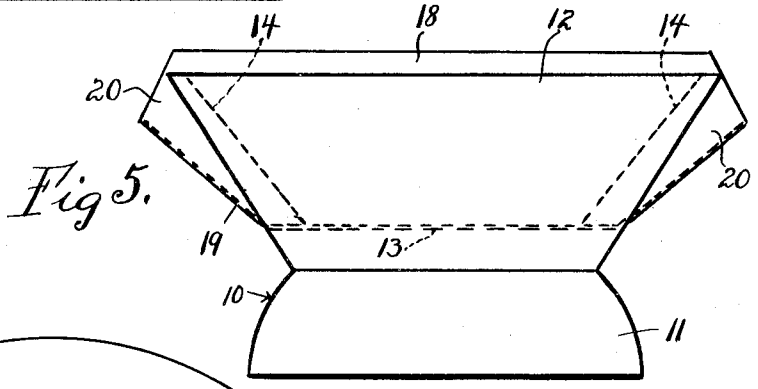



Fig 5.

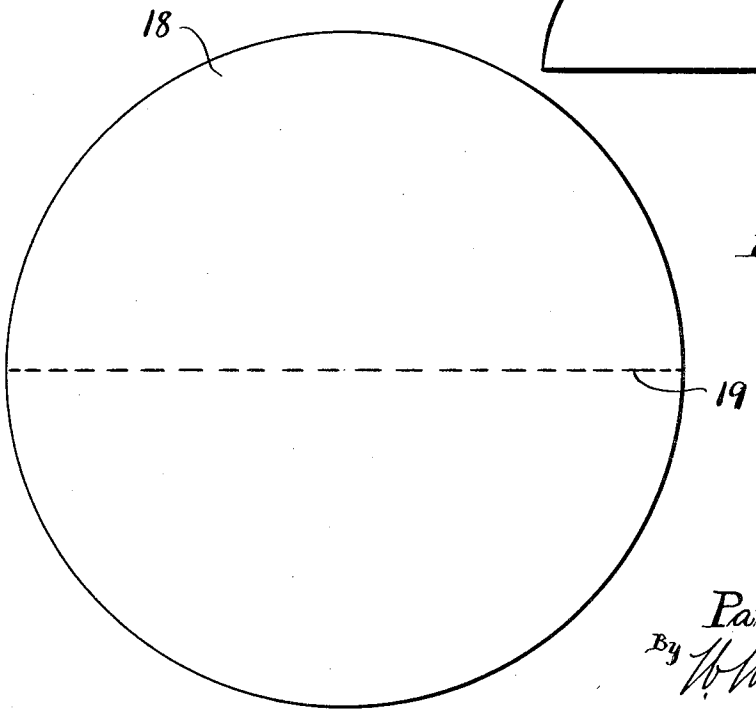



Fig. 6.

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# UNITED STATES PATENT OFFICE

1,933,276

## PAPER DISH AND HOLDER

Parker W. Miller, Phillipsburg, N. J.

Application February 3, 1933. Serial No. 655,019

6 Claims. (Cl. 65—61)

My invention relates to new and useful improvements in a paper dish and holder and has for one of its objects to generally improve the construction of paper lined holders for ice-cream, and desserts and refreshments made therefrom or other substances.

Another object of my invention is to produce a vessel in which food-stuffs may be served consisting of a holder of unique configuration and a paper disc insertable in the holder and positioned to provide a non-leakable lining for the holder.

Another object of the invention is to produce an exceedingly inexpensive vessel of the character herein set forth.

A further object of the invention is to provide a holder having a cavity or chamber so formed as to produce a flat oblong interior bottom surface and inclned or tapered interior walls having different alternate inclinations and said side walls having a pair of diametrically opposite slots for the reception of a folded paper disc whereby said disc is so interengaged with the holder as to prevent rotation of said disc relative to the holder.

A still further object of the invention is to provide discs of suitable paper to be folded in half for insertion in the slots in the holder and to then be shaped to conform with the general contour of the interior of the holder to function as a dish.

With these and other ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by numerals to the accompanying drawings forming a part of this application, in which:—

Fig. 1 is a top plan view of the holder comprising a part of my invention.

Fig. 2 is a side elevation thereof looking toward one of the slotted sides.

Fig. 3 is a section on the line 3—3 of Fig. 1.

Fig. 4 is a side elevation at right angles to Fig. 2, and showing the first position of a folded paper disc when inserted in the holder.

Fig. 5 is a similar view after the paper disc has been formed into shape, corresponding approximately to the interior of the holder.

Fig. 6 is a face view of a paper disc showing in dotted lines a folding line of the disc.

In carrying out my invention as herein embodied, 10 represents the holder constituting one of the elements of the combined structure and said holder may be produced from any suitable material in any desirable exterior configuration. For purposes of illustration and description, the holder will be considered as including a base 11 and a hollow body 12.

The hollow body is so fashioned as to produce an interior bottom wall 13 of substantially oblong shape, Fig. 1, from which the inner surfaces of the side walls diverge or project upwardly in an outwardly flaring direction and two diametrically opposite areas 14 of the inside surfaces of the side walls have a steeper angle of inclination than two other areas 15 which are also diametrically opposite each other. The areas 14 are of smaller dimensions than the areas 15 and said areas 14 have the ends of the bottom surface as their base lines, while the larger areas 15 have the sides of said bottom surface as their base lines.

In the side walls of the body are formed two slots 16, diametrically opposite each other which run from the flat bottom surface 13 to the upper edge or perimeter of said side walls and at the upper ends said slots are flared to produce widened entrances or mouths 17. The slots are in the smaller inclined areas 14 of the inner surfaces of the side walls and on the median lines thereof.

The paper dish or filler is produced from a true disc 18 of suitable paper which is folded on a diameter indicated by the dotted line 19. After being folded the disc is inserted, folded edge first, into the slots in the holder until said folded edge rests on the interior flat bottom 13 as shown in Fig. 4. The diameter of the disc is longer than the diameter of the holder so that the ends of the folded edge project outside of the interior of the holder and generally beyond the exterior of said holder depending, of course, upon the thickness of the walls of the holder.

After the disc has been inserted in the holder in its folded condition, it is distended or spread out and part of it caused to assume the identical or approximately the same shape as the interior of the hollow body of said holder which will draw up the ends of the folded edge to the positions illustrated in Fig. 5, and the perimeter will assume an approximately straight line so that the edges of the paper dish or filler and the holder will be in substantially parallel spaced planes.

The particular shapes and angles relative to one another of the interior surface of the hollow

body including the flat bottom 13 and the areas 14 and 15 makes it possible to provide a smooth interior surface for the paper dish or filler without any wrinkles twisted or overlapping portions and at the same time provides the wings 20 which project into the slots 16 in the holder. Said wings function as ribs or splines and prevent rotary movement of the paper disc relative to its holder.

In practice, the discs from which the dish is formed may be supplied in a flat condition as shown in Fig. 6, permitting them to be packed and stored in a very small space, and when they are to be used it is only necessary to fold them as shown in Fig. 4. After being folded, they are inserted in the slots in the holders with the folded edge downward and as the entrances to the slots are flared, it is an easy matter to slip them into place. As soon as the folded edge of a folded disc rests upon the flat interior bottom 13 of the holder as shown in Fig. 4, the portions of the disc within the holder may be distended either by inserting the hand between the leaves of the folded disc or elevating the ends of the folded edge until they assume the position shown in Fig. 5, at which time the paper dish will be produced in conformity with the shape of the interior of the hollow body of the holder and the article or articles to be served may then be placed therein.

It will be obvious that the provision of paper discs for use as fillers, inserts or dishes will be exceedingly cheap and much more reasonable than paper dishes which are preformed to shape. At the present cost of the character of paper used for this class of work, the wholesale price of manufactured paper dishes is three dollars and seventy-five cents a thousand, whereas the cost of one thousand discs is but thirty-six cents, since the paper from which one thousand discs are produced weighs approximately six pounds and the cost of said paper is about six cents a pound.

Of course I do not wish to be limited to the exact details of construction herein shown and described as these may be varied within the limits of the appended claims without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is:—

1. A device of the character described, comprising a holder including a body with a substantially oblong flat interior bottom wall and flaring interior side wall surfaces having areas of different angularity relative to said bottom wall, the alternate ones of said area being of the same angularity relative to said bottom wall, the side walls of said body having slots therein adapted to receive a folded in half paper disc which is distended to conform to the interior shape of the body with wings projecting into the slots.

2. The structure set forth in claim 1, wherein the open ends of the slots are flared to provide enlarged entrances thereto.

3. A device of the character described, including a holder and a paper dish, said holder including a hollow body having a flat interior bottom surface of substantially oblong shape and flaring interior side walls of different angularity relative to said bottom surface whereby the interior side wall surfaces are divided into four areas, the diametrically opposite areas having the ends of the bottom as their base lines being of smaller dimensions and of steeper inclination than the areas having the sides of the bottom as their base lines, said body having slots completely through the side walls from the interior bottom to the upper edges of the side walls and the upper ends of said slots being flared to produce widened entrances, said paper dish consisting of a disc folded in half and inserted with its folded edge foremost into the slots until said folded edge rests upon the flat interior bottom with the ends of the folded edge projecting beyond the exterior of the body, and said disc then distended in order to conform to the interior contour of the body of the holder without wrinkles and leaving wings projecting into said slots.

4. A device of the character described, comprising a holder including an elongated flat interior bottom wall and flaring interior side wall surfaces having areas of different angularity relative to said bottom wall, certain ones of said areas being of the same angularity relative to said bottom wall, the side walls of said body having slots therein at the ends of said bottom wall adapted to receive a folded in half paper disc which is distended to conform to the interior shape of the body with wings projecting into the slots.

5. A device of the character described, including a holder and a paper dish, said holder including a hollow body having an elongated flat interior bottom surface and flaring interior side walls of different angularity relative to said bottom surface whereby the interior side wall surfaces are divided into four areas, the diametrically opposite areas having the ends of the bottom as their base lines being of smaller dimensions and steeper inclination than the areas having the sides of the bottom as their base lines, said body having slots completely through the side walls from the interior bottom to the upper edges of said side walls and located adjacent the ends of the bottom surface, said paper dish consisting of a disc folded in half and inserted with its folded edge foremost into the slots until said folded edge rests upon the flat interior bottom surface with the ends of the folded edge projecting beyond the exterior of the body, and said disc then distended in order to conform to the interior contour of the body of the holder leaving wings projecting into said slots.

6. The method of forming a paper dish consisting of folding a paper disc in half, then inserting said folded disc with the folded edge foremost into slots at opposite ends of an elongated hollow holder so that the ends of said disc project outside of and beyond the ends of said holder, and then distending the portions of the disc within the holder to conform to the interior of said holder and at the same time drawing the projecting ends of said disc upward without disengaging them from the slots.

PARKER W. MILLER.