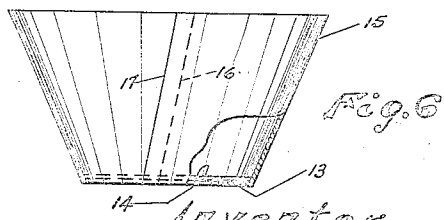
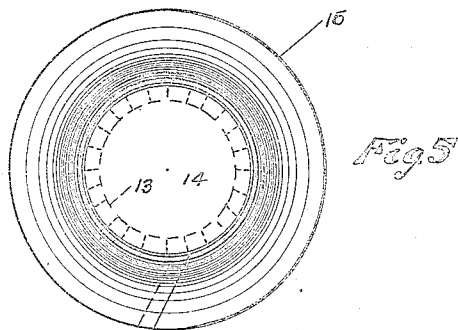
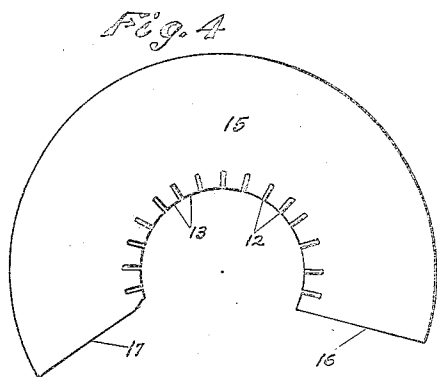
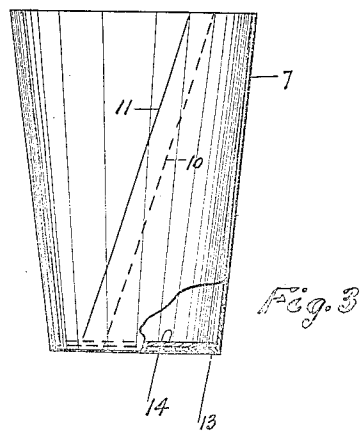
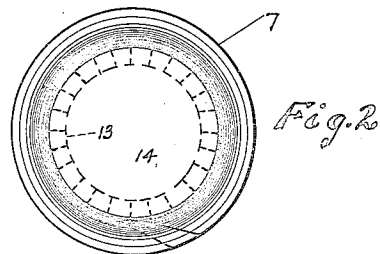
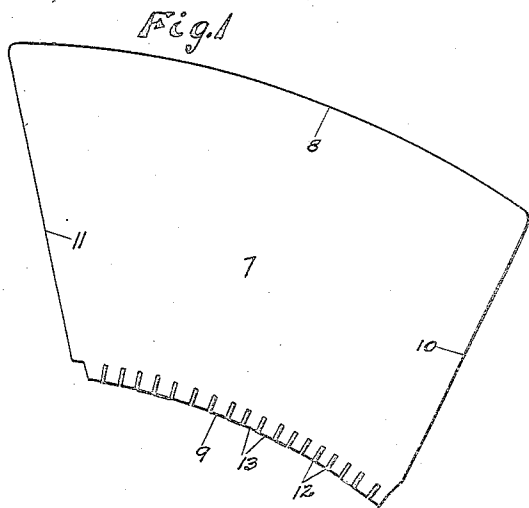


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PAPER VESSEL.
APPLICATION FILED JUNE 19, 1920.

1,435,120.

Patented Nov. 7, 1922.



Witnesses:

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UNITED STATES PATENT OFFICE.

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PAPER VESSEL.

Application filed June 19, 1920. Serial No. 390,063.

To all whom it may concern:

Be it known that I, RUDOLPH HOLMAN, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Paper Vessels, of which the following is a specification.

My invention relates to improvements in paper vessels adapted for use as drinking cups, ice cream dishes, and the like, and has for its object the provision of an improved construction of this character by means of which a satisfactory vessel of this kind may be provided which is of simple construction, efficient in use and capable of economical manufacture.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 is a plan view of a blank employed in making a vessel embodying the invention,

Fig. 2, a top plan view of a completed vessel,

Fig. 3, a side view of said vessel shown partially in section,

Fig. 4, a plan view of a blank for making a vessel of different shape,

Fig. 5, a top plan view of said vessel completed, and

Fig. 6, a side view of the same shown partially in section.

The form of construction illustrated in Figs. 1, 2 and 3 consists of a paper blank 7 cut with its upper edge 8 and its lower edge 9 on the arcs of concentric circles. One end 10 of said blank is cut substantially parallel to a medial radius of said blank, and the other end 11 is cut at an acute angle to said radius, thus forming said ends at different radial angles as shown. The edge 10 makes with the radius running to its outer end (the upper end in Figure 1) a clockwise angle, that is, the edge lies on the right side of the radius as one looks from the center of the arcs 8 and 9 toward the outer end of 10. In the same way, the edge 11 makes an angle with the radius running to its outer end which is also clockwise. Because both of these angles are clockwise, the edges 10 and

11 run in the same direction in the finished cup and preferably these angles are made equal so that in the finished cup, the edges 10 and 11 are parallel. The lower edge of the blank is provided with slits 12 forming tongues 13 as indicated. In forming the cup, the blank 7 is bent or coiled upon itself, and the edges 10 and 11 overlapped to form an inclined or diagonal seam, as indicated in Fig. 3, said overlapped edge being then secured together by glue or other suitable adhesive. The bottom of the vessel consists of a paper disc 14 inserted in the bottom of the vessel and the tongues 13 are folded inwardly and secured to the bottom of said disc by glue or other suitable adhesive. In this way, a strong and durable cup, capable of standing alone is provided.

The modified form of construction illustrated in Figs. 4, 5 and 6, consists of a vessel adapted for use as an ice cream dish and comprises a blank 15 of slightly different shape, said blank being formed with its upper and lower edges cut on concentric circles of very much smaller radii, thus adapting the blank to the formation of a vessel of shallow conical form as indicated in Figs. 5 and 6, and adapted for use as an ice cream dish or the like. The ends 16 and 17 of the blank 15 are also cut as shown at slightly different angles, the line of the edge 16 passing to one side of the center of curvature of the blank, and the line of edge 17 passing to the other side thereof. Otherwise, the construction is substantially the same as that already described.

While I have illustrated and described the preferred forms of construction for carrying my invention into effect, these are capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A paper vessel having walls made from a blank having its upper and lower edges cut substantially on the arcs of concentric circles, and its ends cut at different radial angles, said blank being bent into conical form

with its ends overlapped to form an inclined seam; and a bottom member consisting of a disc secured to the lower edges of said walls.

2. A paper vessel having walls made from a blank having its upper and lower edges cut substantially on the arcs of concentric circles, and its ends cut at different radial angles, said blank being bent into conical form with its ends overlapped to form an inclined seam; and a bottom member consisting of a disc inserted in the lower end of said vessel, the lower edges of said walls being folded under and secured to the bottom of said disc.

3. A paper vessel having walls made from a blank having its upper and lower edges cut substantially on the arcs of concentric circles, and its ends cut at different radial angles, said blank being bent into conical form with its ends overlapped to form an inclined seam; and a bottom member consisting of a disc inserted in the lower end of said vessel, the lower edges of said walls being slitted to form tongues, and said tongues being folded inwardly and secured to the bottom of said disc.

4. A paper vessel having walls made up of a blank having its upper and lower edges cut substantially on the arcs of concentric circles, and one of its ends cut substantially parallel with a medial radius, the other end being cut at an acute angle to said radius, said blank being bent into conical form with its ends overlapped to form an inclined seam; and a bottom member consisting of a disc inserted into the lower end of said vessel, the lower edges of said walls being slitted to form tongues, and said tongues being bent inwardly and secured to the bottom of said disc.

5. A blank for paper cups including a strip of material having two of its edges in the form of circular arcs with one of said

edges slotted to form tongues, and with its ends cut at different radial angles.

6. A blank for paper cups including a strip of material having two of its edges in the form of concentric circular arcs with one of said edges slotted to form tongues, and with its ends cut at different radial angles.

7. A blank for paper cups including a strip of material having two of its edges in the form of circular arcs with one of said edges slotted to form tongues, and with one of its ends cut substantially parallel with the medial radius of the circles, the other end being cut at an acute angle to said radius.

8. A cup formed from sheet material and having a conical wall with a seam oblique to the elements of the cone.

9. A cup formed from sheet material and having a conical wall with a seam of uniform width, the edges of said material along said seam being at an angle to the elements of the cone.

10. A blank for forming a conical vessel, said blank having two edges in the form of arcs of concentric circles and two edges intermediate the first-named edges, one of said intermediate edges making an angle with the radius to its outer end and the other of said intermediate edges making an angle with the radius to its outer end, the said angles being alike and in the same direction whereby when said blank is formed into the frustum of a cone with said intermediate edges forming a seam, the seam will be at an angle to the elements of the cone.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RUDOLPH HOLMAN.

Witnesses:

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ROSE K. TRIB.