

No. 648,448.

Patented May 1, 1900.

J. A. WAGNITZ.
PAPER VESSEL.

(Application filed Feb. 12, 1900.)

(No Model.)

2 Sheets—Sheet 1.

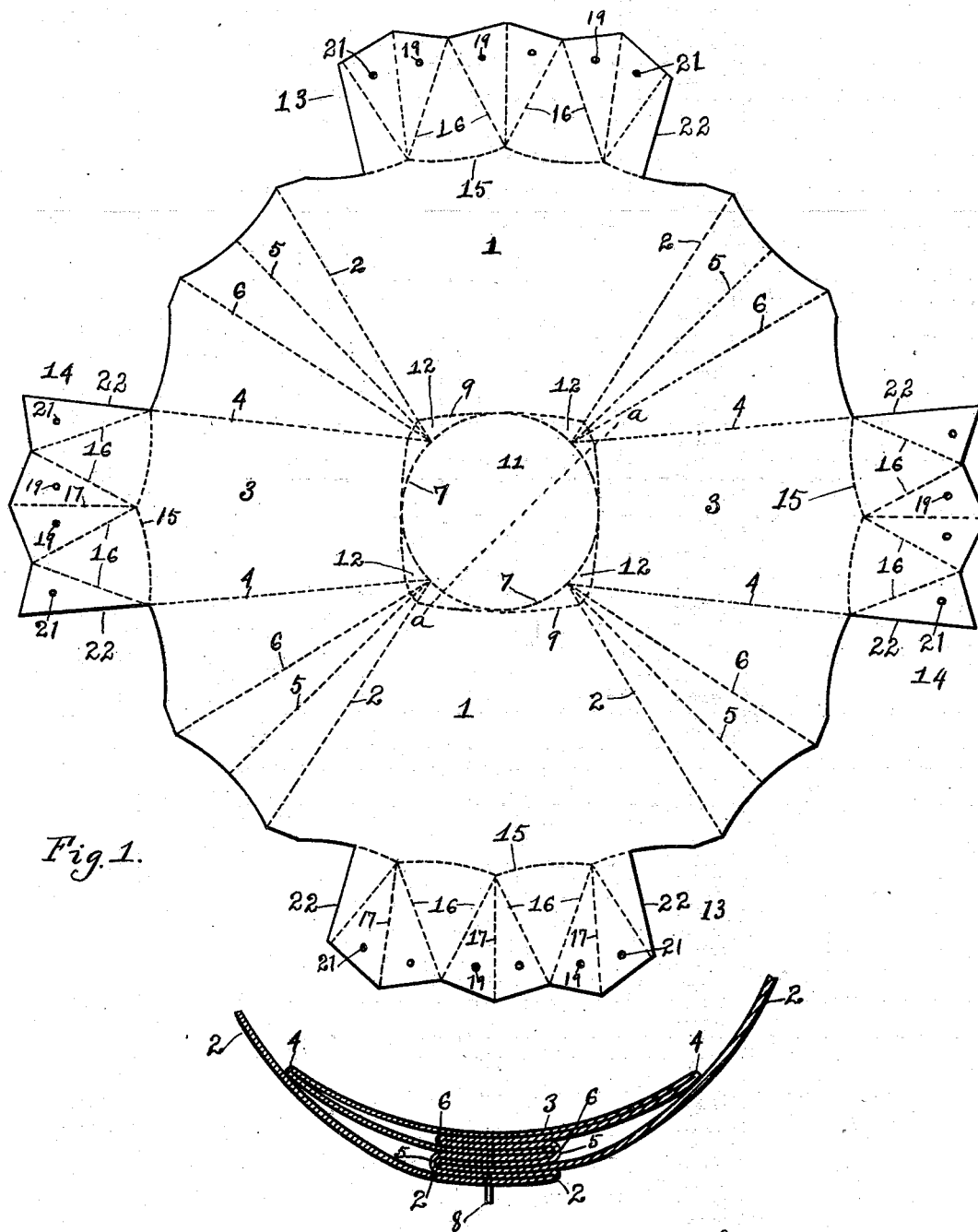


Fig. 1.

Fig. 4.

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2 Sheets—Sheet 2.

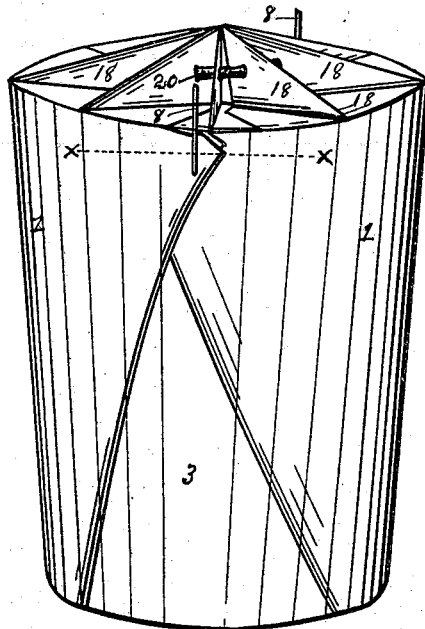


Fig. 2.

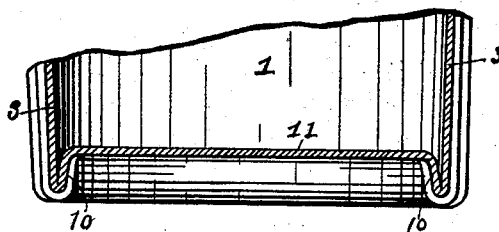


Fig. 5.

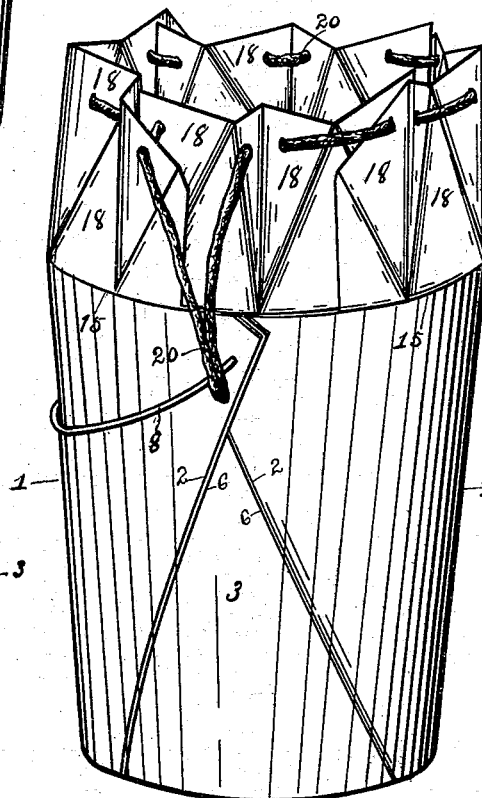


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN A. WAGNITZ, OF DAYTON, OHIO.

PAPER VESSEL.

SPECIFICATION forming part of Letters Patent No. 648,448, dated May 1, 1900.

Application filed February 12, 1900. Serial No. 4,918. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. WAGNITZ, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Paper Vessels; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in paper vessels of the class commonly used for carrying oysters, liquids, and semiliquid substances; and it consists more particularly of a vessel circular in horizontal cross-section.

The object of the invention is to supply a well-known demand for a cheap and efficient circular paper vessel which, owing to the cost of production, is within the reach of all classes of consumers. This I am enabled to do by constructing such paper vessel from a single blank or sheet of paper, cut and scored as hereinafter described in connection with the accompanying drawings, of which—

Figure 1 is a plan view of the blank from which the vessel is made. Fig. 2 is a perspective view of the vessel closed; Fig. 3, a similar view of the vessel open; Fig. 4, a section of one side of the vessel on the line *x x* of Fig. 2, and Fig. 5 a section through the bottom of the vessel when folded. As the blank is shown in Fig. 1 this section is on the line *a a*.

Throughout the specification similar reference characters indicate corresponding parts in the drawings.

The blank is cut in outline substantially as shown in Fig. 1 and has two similar panels 1 1, which form opposite rounded sides of the vessel when folded on the score-lines 2 2, and two smaller panels 3 3, which complete the circle when folded on the score-lines 4 4. The material joining the panels 1 and 3 on each side has score-lines 5 and 6, which, together with the score-lines 2 and 4, converge at their inner terminals at four opposite points of the circular score-line 7, the latter being the circumference of the bottom of the vessel. The

several gores formed by the score-lines 2, 4, 5, and 6 fold against the outer sides of the side walls or panels 3 3, as shown in Fig. 4, and those portions of the panels or walls 1 adjacent to the score-lines 2 2 form the outermost layers that fold over said walls 3 3. These portions of said walls 2 2 overlap with the other folds, and the entire folds are pierced by the ends of a wire bail 8. Said wire bail, however, does not penetrate the walls 3 3.

Inclosing the circular score-line 7 is a score-line 9, which partakes more of a rectangular form. The converging ends of the score-lines 2, 5, 6, and 4 cross this score-line 9 and terminate, as before stated, at the circular score-line 7. Said converging ends, when the folds are made, form four strengthening-ribs 10, that serve to sustain the bottom 11 up, as shown in Fig. 5. The material within the spaces 12 between the circular and rectangular score-lines 7 and 9 is bent up from the bottom of the vessel on line 9, and this provides the strengthening-ribs 10, that extend from the score-lines 7 and 9 and sustain said bottom in the position shown in Fig. 5, score-lines 7 and 9 then forming the lower edge of the bottom of the vessel or a crease or edge around the bottom of the vessel.

In forming the vessel from the blank score-lines 4 and 6 are first folded against the outer side of panels 3. Then score-lines 5 and 2 are folded against 4 and 6, making a double plait or gore against the outer sides of said panels 3, which overlap at the upper ends and are secured by the bail, as hereinbefore described. The cover of the vessel is also constructed from the same blank as the body and consists of four extensions or flaps 13 and 14 and project from the edges of panels 1 and 3 and between which parts there are wave score-lines 15, which score-lines partake of the general outline of the blank. These extensions or flaps 13 and 14 have a series of angle score-lines 16 and straight parallel score-lines 17, which form a series of folds 18, which bend on wave-lines 15 and form the cover of the vessel. These folds are provided with eyelets 19, through which an endless string or cord 20 is passed. The eyelets 21, adjacent to the edges 22 of the flaps, come in line when said edges are overlapped, and the string or cord passing through all of the eyelets con-

trols all of the folds 18, and when said string is pulled at each end in opposite directions the said folds will close down, forming the cover, as shown in Fig. 2, the cord being tied
5 to maintain the cover in such closed position.

Having described my invention, I claim—

1. A paper vessel and the cover therefor constructed from a single blank or sheet of paper and having a circular form in cross-
10 section and the cover folding over the mouth of the vessel from opposite sides of said vessel and forming a complete closure therefor.

2. A paper vessel and the cover therefor constructed from a single blank or sheet of
15 paper and having a circular form in cross-section, the bottom of said vessel being strengthened by ribs which extend from the lower edge of the vessel to the bottom thereof.

3. A paper vessel and the cover therefor
20 folding from opposite sides constructed of a single blank or sheet of paper the vessel being in circular form and the walls of which are of varying thicknesses.

4. A paper vessel and cover, constructed of
25 a single blank or sheet of paper in circular form, the walls being of varying thicknesses, and the bottom being projected up and sustained by strengthening-ribs which extend from the lower edge of the vessel to said
30 bottom.

5. A paper vessel and cover provided with strengthening-folds constructed of a single blank or sheet of paper scored to provide four
35 oppositely-positioned side panels with intervening folds said intervening folds together with portions of two said side panels overlapping the outer sides of the remaining two side panels and forming a vessel circular in cross-section.

6. A paper vessel constructed of a single
40 blank or sheet of paper scored to provide a circular bottom and four side panels with intervening folds, the score-lines of said intervening folds converging at said circular bottom and forming strengthening-ribs therefor,
45 said intervening folds together with portions of two of said side panels overlapping the remaining two side panels and forming a vessel circular in cross-section.

7. A paper vessel and cover constructed
50 from a single blank or sheet of paper scored to provide four side panels of unequal dimensions, and intervening folds, the two side panels of greatest dimension together with
55 said intervening folds overlapping the two side panels of less dimension and forming a vessel circular in cross-section.

8. A paper vessel constructed from a blank
60 or single sheet of paper scored to provide side walls or panels and intervening folds, a circular score-line upon which said side walls and folds are bent, thereby forming the bottom, a rectangular score-line surrounding
65 said circular score-line and joining the same at four opposite sides, the inner ends of the folds converging and forming strengthening-ribs which extend from the lower edge of the

vessel to the bottom thereof and sustain said bottom upwardly from said lower edge.

9. A paper vessel and the cover therefor,
70 the same constructed from a blank or single sheet of paper scored to provide side panels with intervening folds and a circular bottom, extensions or flaps projecting from said side panels, score-lines between said side panels
75 and extensions or flaps, said extensions or flaps being also scored to provide plaits, and means for gathering said plaits and bending them to form a cover for the vessel.

10. A paper vessel and the cover therefor
80 constructed from a single blank or sheet of paper scored to provide side walls or panels and a circular bottom, intervening folds which together with two of the side panels overlap the remaining side panels, and form a circular
85 vessel in horizontal cross-section, said side panels terminating in extensions or top flaps, score-lines upon which said top flaps are bent inwardly, and a string passing through eyelets in the folds of said top flaps to gather and
90 bend said top flaps to form a circular cover for said vessel.

11. A blank for a paper vessel and cover,
95 the same being cut to provide four side walls or panels of different dimensions with extensions or cover-flaps of different dimensions the portions of the blank between the side walls or panels being scored to fold against
100 two of said side panels or walls whereby the edges of the extensions or cover-flaps are brought together to form one continuous plaited, circular cover, and means for gathering and bending said plaits to close the mouth of the vessel.

12. A blank for a paper vessel and cover,
105 the same being cut to provide side walls or panels of different dimensions with extensions or cover-flaps of different dimensions, said blank being scored to provide a circular bottom, and the portions of the blank between
110 the side walls or panels being also scored to fold against two opposite side panels, or walls whereby the edges of the extensions or cover-flaps are brought together to form one continuous plaited, circular cover, and means for
115 gathering and bending said plaits to close the mouth of the vessel.

13. A blank for a round paper vessel and cover, the same being cut to provide four side
120 walls or panels with intervening folds, two of said panels overlapping the remaining two, and all of said side panels having cover extensions with scores and adapted to fold over the mouth of the vessel from four sides of said vessel, score-lines between said panels and
125 the cover extensions which partake of the same curvature as the outline of the blank between said cover extensions, substantially as described.

14. A blank for a paper vessel and cover,
130 the same being cut to provide side walls, and extensions or cover-flaps the portions of said blank between the side panels being scored to permit two of the side panels to fold over

the remaining two of said panels, the said
blank being provided with a circular score-
line 7 inclosed by a rectangular score-line 9,
the score-lines in the blank between the side
5 panels converging at said circular score-line
7 and the portions of said score-lines in the
portions of the blank between said side panels
which lies between the circular and rectan-
gular score-lines 7 and 9 forming ribs which
10 support the bottom of the vessel up from the
edge thereof, the extensions or cover-flaps

being scored to provide suitable folds that in-
close the mouth of the vessel, and means for
folding said cover-flaps over the mouth of the
vessel.

In testimony whereof I affix my signature 15
in presence of two witnesses.

JOHN A. WAGNITZ.

Witnesses:

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R. J. McCARTY.