Oct. 14, 1924. 1,511,852

W. WAGNER

CARAFE

Filed March 23, 1922 2 Sheets-Sheet 1

Fig. 1.

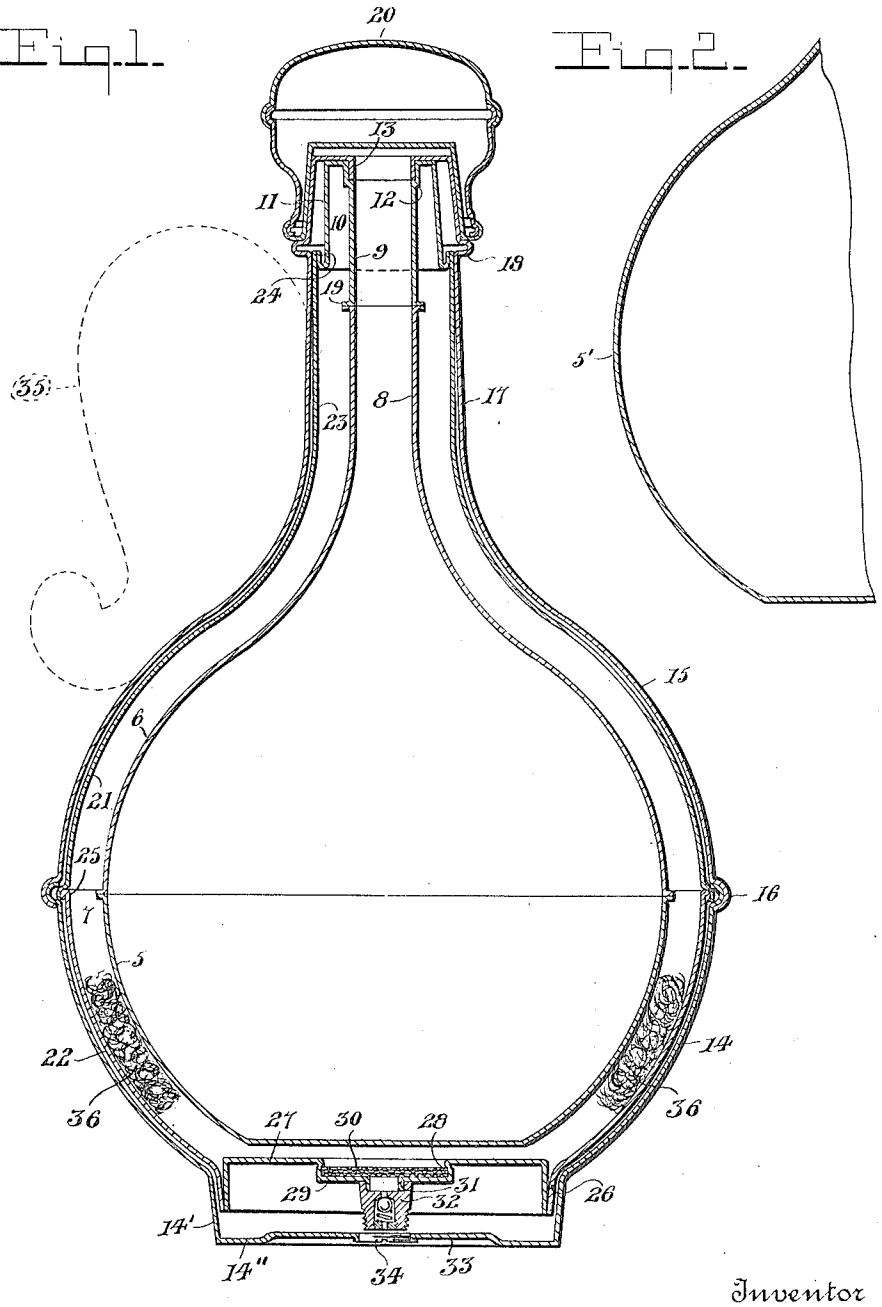



Fig. 2.




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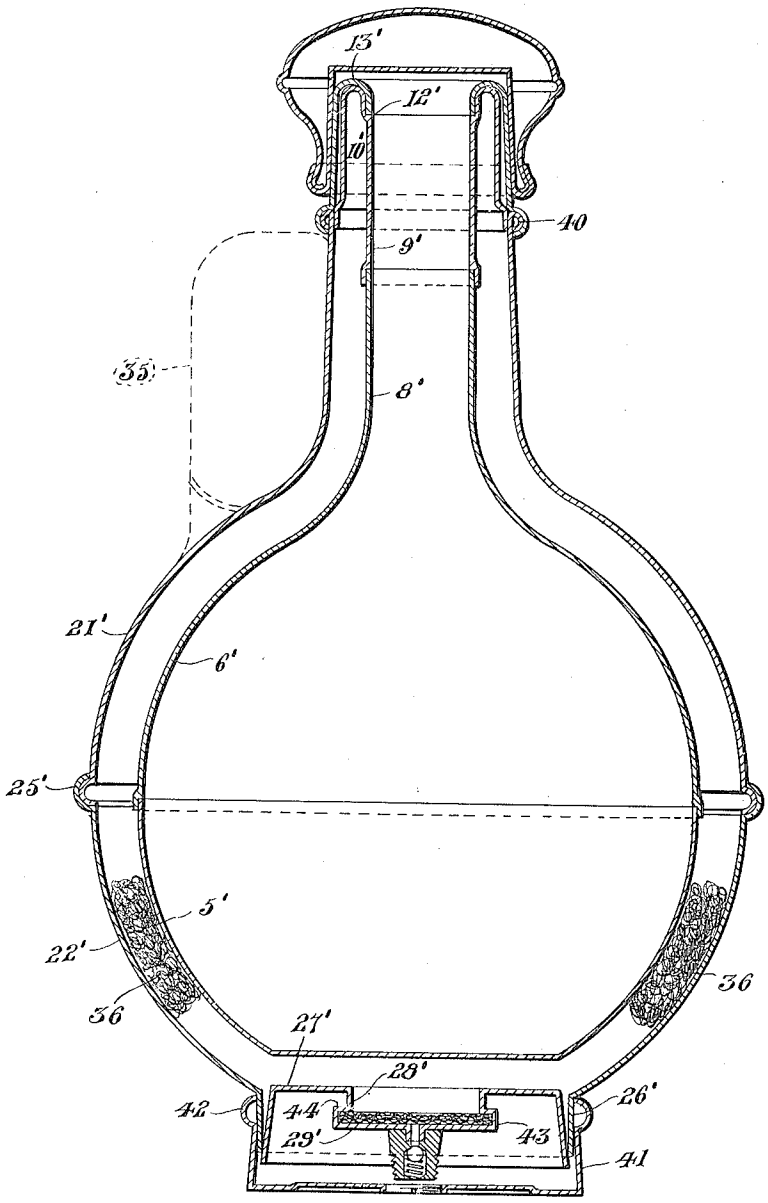
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Fig. 3.




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# UNITED STATES PATENT OFFICE.

WALTER WAGNER, OF CHICAGO, ILLINOIS.

## CARAFE.

Application filed March 23, 1922. Serial No. 546,047.

*To all whom it may concern:*

Be it known that I, WALTER WAGNER, a citizen of Poland, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Carafes, of which the following is a specification.

This invention relates to certain new and useful improvements in carafes embodying a multiple wall metallic vessel having heat insulating space between the walls thereof, said vessel being a wide bodied vessel having a comparatively slender neck.

Carafes of this character have heretofore been constructed of glass or the like with a separate metallic casing, and the manufacture of the same incurred considerable expense and breakage of the same was an undesirable characteristic. It is the primary object of this invention to form the vessel entirely of metal which may be suitably enameled on the interior and silver or nickel-plated on the exterior as well as being composed of a number of separate sections permanently, rigidly assembled in such manner as to present a neat and ornamental appearance and so as to provide for the ready and inexpensive manufacture of the same.

A further object of the invention is to provide an improved metal cover for protecting the upper part of the neck of the vessel from rust and the like and also to protect the enamel from being cracked by adding to the ornamental appearance of the invention.

A still further object of the invention is to provide a multiple wall metallic carafe with a suitable packing between the walls thereof and means for facilitating withdrawal of air from the space between the wall and preventing withdrawal of the packing.

The invention embodies further improvements in the art to which it relates and more particularly in connection with the application filed by Walter Wagner on March 31, 1921, Serial No. 457,361, allowed November 1, 1921.

A still further object of the invention is to generally improve devices of this character, whereby the same may meet with all of the requirements for a successful commercial use.

Other objects will appear as the nature of the invention is better understood, and the same consists of the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings and claimed.

In the drawings, wherein like reference characters designate corresponding parts throughout the several views,

Figure 1 is a central vertical sectional view of the preferred embodiment of the invention with parts of the packing omitted for the sake of clearness, a handle being indicated by dotted lines,

Figure 2 is a vertical sectional view partly broken away of a slightly modified form of one of the inner walls of the carafe, and

Figure 3 is a view similar to Fig. 1 of a modified form of a carafe.

Referring more in detail to the several views, the invention embodies an inner container including a metallic bowl-shaped bottom section 5 and an upper inverted substantially funnel-shaped section 6 with their adjacent margins outwardly flanged and permanently united as at 7 through the medium of spot welding, solder or the like. These two sections of the inner container may be conveniently drawn from a sheet of metal and the tubular portion 8 of the upper section 6 forms a portion of the neck of the vessel, the remaining portion of which is formed by the inner sleeve 9 of a double walled top member 10 having a second sleeve surounding the sleeve 9 in spaced relation as at 11, and the sleeve 11 being of lesser length than the sleeve 9. The connecting portion between the sleeve 9 and 11 is of annular form so as to provide an imperforate smooth upper edge for the neck of the bottle, and the sleeve 9 is offset as at 12 to provide a shoulder or rest for the inturned edge 13 of the upper section 15 of the outer wall of the carafe. As shown in Fig. 2 the inner wall of the receptacle may be formed of a single section of material 5′ in lieu of the upper and lower sections 5 and 6 as in Fig. 1.

The outer container of the carafe is formed of a bottom section 14 similar to the bowl-shaped section 5 except that the section 14 is of a larger size so as to leave an annular space between the sections 5 and 14, and the bottom of the section 14 is provided with a reduced annular portion 14′ having a flat bottom surface 14″ so that the carafe may rest in a vertical position upon a table or the like. The outer container also embodies an upper section 15 of substantially the same general form as the section 6 of the

inner container, but of uniformly larger size so as to leave a similar annular space between the sections 6 and 15 about the neck portion 8 and the enlarged lower portion of the inverted funnel-shaped section 6, the sections 14 and 15 being joined at their margins by the provision of interfitting beads as at 16 and by soldering, brazing, or welding at this and similar points if found desirable. The beads 16 provide an ornamental joint between the sections 14 and 15, which sections may also be conveniently drawn from sheet metal. The smaller or neck portion 17 of the outer and upper section 15 is provided at a point spaced from its upper edge with an annular corrugation or bead 18 for purposes presently to be described.

The adjacent edges of the inner sleeve 9 of the top member 10 and the neck portion 8 of the upper section 6 of the inner container are flanged outwardly as at 19 and are permanently united through the medium of spot welding, soldering or the like. The neck of the bottle is provided with a suitable closure or metal cap 20 which is of double walled construction and suitably constructed of inner and outer permanently connected and spaced sections. The lower edge of the cap is adapted to rest upon the corrugation or bead 18 of the neck 17 of the section 15 of the outer container.

Slightly spaced from the sections 14 and 15 of the outer container there is provided an upper and lower section 21 and 22 of an intermediate container. Similar to the upper sections 6 and 15 of the inner and outer container the upper section 21 of the intermediate receptacle is provided with a reduced neck portion 23, the upper edge of which surrounds the overturned edge 24 of the outer wall 11 of the top member 10 and is firmly secured thereto by welding, soldering or the like. The adjacent edges of the sections 21 and 22 are secured to each other as at 25 in a manner similar to the securing of the adjacent edges of the sections 14 and 15 of the outer receptacle. The bottom of the lower section 22 is left open and is provided with a depending collar or sleeve 26 directly beneath the bottom of the section 5.

An inverted substantially pan-shaped member 27 is fitted within the bottom opening of the intermediate lower section 22 and within the depending sleeve 26 thereof, and it is secured in position in any suitable manner as by means of solder or welding, the top wall of the member 27 is inwardly depressed to provide a central sleeve portion 28, the bottom of the sleeve portion 28 being closed by a bottom wall 29. A pair of perforated metal disks with a suitable fabric disk is disposed therebetween as generally denoted by the numeral 30 and is firmly held within the sleeve 28 and these disks overlie the opening of a depending sleeve 31 which is provided centrally of the bottom portion 29 which has a suitable check valve 32 secured thereon by means of which air may be readily exhausted from the space between the inner and intermediate container of the vessel by proper connection with an air exhausting device, and to permit the ready attaching of this air exhausting device to the check valve 32, the flat bottom wall 14'' of the section 14 has an annular opening 33 therein for receiving a plug 34. The space between the inner and intermediate containers of the vessel is preferably filled with a suitable packing of heat insulating material denoted by the numeral 36 and the fabric and metallic perforated disks 32 permit the exhaustion of air by preventing withdrawal of the packing. The assembled carafe may be provided with any preferable form of handle 35 shown in the views by the dotted lines.

In Fig. 3 I have shown a slightly modified form of carafe wherein the meeting edges of the upper and lower sections 6' and 5' of the inner container are telescoped and firmly united by soldering or the like. This same type of joint is provided between the adjacent edges of the neck 8' of the upper section of the inner container 6' and the lower edge of the inner sleeve 9' of the top member 10'. In this form of the invention the sleeve 9' is offset as at 12' to provide a shoulder or rest for one end of a metal cover 13' which is employed for protecting the upper part of the neck from rust and for protecting the enamel of the same from cracking. The upper and lower sections 21' and 22' in this form are substantially the same as the upper and lower sections 21 and 22 of the inner intermediate receptacle excepting that the meeting edges 25' thereof are united through the medium of interlocking beaded edges. The opposite end of the upper section 21' is also beaded as at 40 for receiving the beaded lower edge of the protecting cover 13'. The bottom of the vessel is formed by a pan shaped bottom forming member 41 which telescopes onto the sleeve 26' of the outer lower section 22' and which is suitably fastened upon said sleeve 26' as well as being provided with an annular bead 42 along its upper edge for ornamental purposes. The pan-shaped member 27' in this instance is inwardly depressed to provide a central sleeve portion 28', and a lower and larger sleeve portion 43 is connected by a horizontal annular portion 44, the bottom of the sleeve portion 28' being closed by a bottom wall 29' arranged in spaced relation to the portion 44.

From the foregoing description it is believed that the construction and operation

as well as the advantages of the present invention will be readily understood and appreciated by those skilled in the art.

Minor changes may be made in the invention without departing from the spirit and scope thereof as claimed.

What is claimed as new is:—

1. A sheet metal carafe comprising lower inner and outer spaced bottom sections of substantially bowl-shape, and inner and outer inverted substantially funnel-shaped upper sections respectively joined to the upper margins of said inner and outer lower sections, a one-piece double walled upper neck section joined to the upper margins of said inner and outer inverted substantially funnel-shaped upper sections, and a metal protecting cover, said upper neck section having its walls offset inwardly for permanent seating reception of said metal protecting cover, the inner wall of the upper neck section being joined onto the end of the inner inverted funned-shaped section, the lower end of the outer wall of said upper neck section being telescopically joined within the upper end of the outer inverted funnel-shaped section, and the protecting cover for the walls of the bowl and funnel formation being of a configuration similar thereto.

2. A sheet metal carafe comprising lower inner and outer spaced bottom sections of substantially bowl-shape, and inner and outer inverted substantially funnel-shaped upper sections respectively joined to the upper margins of said inner and outer lower sections, a one-piece double walled upper neck section joined to the upper margins of said inner and outer inverted substantially funnel-shaped upper sections, the outer bowl-shaped lower section having a central bottom opening, a depending collar surrounding said opening, an inverted substantially pan-shaped section fitted within said depending collar, said inverted substantially pan-shaped section being provided with means for permitting the exhaustion of air from between the inner and outer sections, the pan-shaped section having a central depression, a screen seated in the depression, a packing between the inner and outer sections overlying the screen with the screen, preventing the outward passage of the packing upon exhaustion of the air, means for gaining access to the means that permits exhaustion of air and a protecting cover for the walls of bowl and funnel formation being of a similar configuration.

3. A sheet metal carafe comprising lower inner and outer spaced bottom sections of substantially bowl-shape, and inner and outer inverted substantially funnel-shaped upper sections respectively joined to the upper margins of said inner and outer lower sections, a one-piece double walled upper neck section joined to the upper margins of said inner and outer inverted substantially funnel-shaped upper sections, the outer bowl-shaped lower section having a central bottom opening, a depending collar surrounding said opening, an inverted substantially pan-shaped section fitted within said depending collar, said inverted substantially pan-shaped section being provided with means for permitting the exhaustion of air from between the inner and outer sections, a packing between the inner and outer sections, means carried by said inverted substantially pan-shaped section for preventing the outward passage of the packing upon exhaustion of the air, said last named means comprising a central depressed portion provided on the inverted substantially pan-shaped section, foraminous disks having their margins clamped in said central depressed portion, and a protecting cover for the walls of bowl and funnel formation being of a similar configuration.

4. A sheet metal carafe comprising rigidly spaced inner and outer walls formed of upper and lower sections sealed at their abutting edges, a one-piece double walled neck portion having the lower edge of the inner wall abutting the upper edge of the inner wall of the carafe and the outer wall of the neck portion telescoped in the outer wall of the carafe the upper edge of the inner wall of the neck having an inset portion and a casing for the double wall formation of the carafe being of a like configuration thereto and formed of sections similarly connected with the upper end thereof seated in the insert portion of the neck.

In testimony whereof I affix my signature.

WALTER WAGNER.