July 9, 1929. W. T. BEVERLY 1,719,868

SHIPPING RECEPTACLE

Filed April 10, 1928

Fig. 1

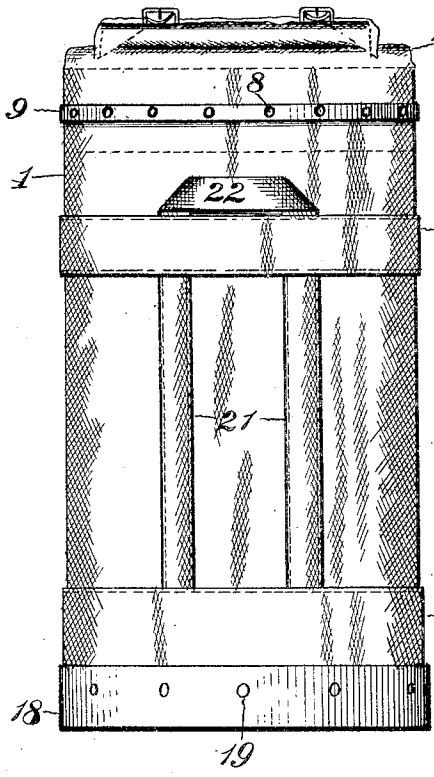


Fig. 2

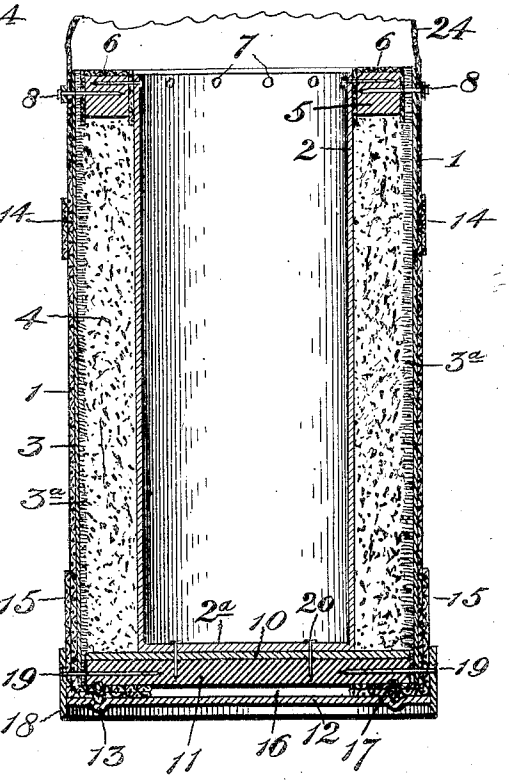
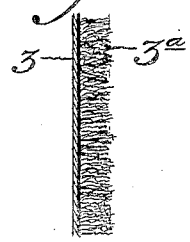


Fig. 3



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Patented July 9, 1929. 1,719,868

UNITED STATES PATENT OFFICE.

WALTER T. BEVERLY, OF LOUISVILLE, KENTUCKY.

SHIPPING RECEPTACLE.

Application filed April 10, 1928. Serial No. 268,985.

My invention relates to shipping receptacles or containers, and is provided with non-heatconducting walls, so that in that respect it is somewhat like a fireless cooker or a thermos bottle.

My object is to provide a shipping receptacle which will, for a considerable period of time, keep the article shipped, at approximately the same temperature which it had when first placed in the receptacle. To this end it is specially useful as a shipping receptacle for ice cream. The receptacle keeps the cream from melting, and thus the expense and disagreeable labor of packing in salted ice is obviated. But the receptacle and its contents reach the customer in prime condition, and the can of cream can be lifted out of the receptacle whenever desired. When the cream has been emptied, the receptacle containing the empty can is ready to be returned to the manufacturer dry and clean ready for another shipment. This is a great improvement over the soggy, water-soaked shipping receptacles now in common use.

Another object is to provide a shipping receptacle having an outer wall of fabric surrounding a filling of ground cork or the like.

Still another object is to provide novel means for securely clamping the ends of the outer fabric cover to hold said cover taut at all times.

Other objects will appear in the subjoined description.

The invention consists in certain novel features of construction and arrangement of parts, as will now be described and claimed, reference being had to the accompanying drawings, in which;—

Fig. 1 is a side elevation of one of my shipping receptacles.

Fig. 2 is a vertical section of the same, with the cover omitted, and; Fig. 3 is a sectional view, on an enlarged scale, of a piece of the material used inside the outer flexible covering to prevent the leaking out of the heat-insulating material, when said outer flexible cover is snagged.

A leading feature of the invention consists in a device for the purpose described, having an outer flexible covering surrounding an inner receptacle, with a filling of ground cork or other heat insulating material filled in between the two, with a lining of water-proofed paper or other flexible material interposed between said outer wall and the filling of heat-insulating material, said paper lining being provided, if desired, with a layer of cotton batting or other material formed of long fibres.

Referring further to the drawings, the numeral 1 indicates the outer flexible wall or covering of the receptacle, said wall being made preferably of canvas or the like; and the numeral 2 indicates the inner metallic receptacle. In engagement with the inner face of the outer covering 1 is a sheet or layer of fibrous material 3 which may be made of paper or loosely-woven jute or hemp, or any other fibrous material. This layer 3 is preferably, though not necessarily, waterproofed, and whenever desired may be provided on its inner side with a sheet or layer of loose fibrous material 3^a or the like, which may be either secured to the inner face of the body 3, or may simply be placed in engagement therewith when the parts of the receptacle are being assembled in the process of making the receptacle. Between the layers of fibrous material 3 and 3^a and the wall 2 of the inner metallic can, is a filling of non-heatconducting material 4 made of ground cork, sawdust, or the like. At the top of the can is a comparatively broad band 5 of wood or wood fibre interposed between the inner and the outer walls of the receptacle, and this band is covered on its top and sides with a covering 6 of canvas. The inner can 2, at its top, is rigidly secured to this wooden band by nails or screws 7, and the outer wall 1 is similarly secured thereto by nails or screws 8. And the outer flexible wall of the device is provided with a narrow metallic band 9 through which the nails or screws 8 pass in order to keep their heads from penetrating and cutting through the flexible outer wall 1 of the receptacle.

At its bottom the device has a sheet of paper 10 immediately underneath the bottom 2^a of the inner metallic receptacle; and underneath this sheet of paper which is preferably waterproofed, is a wooden bottom 11. Underneath this bottom 11 is a metallic outer bottom 12 provided on its upper face with an annular groove or depression 13. Near its upper end the receptacle is provided with a reinforcing band 14 made preferably of the same material as the outer wall 1; and at its lower end this outer wall is reinforced with a broad band 15; and the lower end of the outer wall which is lapped with this reinforcing band is turned inwardly underneath the wooden bottom 11, between the

same and the outer metallic wall 12, so that there is a dead air space 16 between said wooden bottom and said outer metallic bottom.

A metallic ring or band 17 of the same diameter as the annular groove or depression 13 (which groove is overlapped by the inturned lower ends of the flexible cover 1 and its lapping band 15), is disposed on top of said inturned portion of the outer wall 1 and immediately above said groove 13, and pressed on its upper side by the wooden bottom 11 and forced thereby down toward said groove, whereby it exerts a biting action on said inturned flexible portions of the outer cover to hold them secured in place. The receptacle at its bottom is also provided with an outer metallic band 18 held in binding engagement with the periphery of the metallic bottom 12, and secured to the wooden bottom 11 by means of nails or screws 19.

The bottom 2^a of the inner metallic can is secured to the wooden bottom 11 by means of nails or screws 20.

The receptacle is also provided on diametrically opposite sides with lifting straps each consisting of two vertically disposed parallel straps 21 rigidly secured to the outer cover of the can, and passing underneath the reinforcing bands 14 and 15, and formed at their upper ends just above the band 14 into an outturned loop 22 to form a hand-hold for handling the receptacle.

The receptacle is provided with a cap or covering 24, of any ordinary or preferred construction, and may be formed integral with the outer cover 1 or may constitute a separate piece therefrom; but as no claim is made to the cover of the receptacle, no particular cover is herein described.

The wooden or fibre band 5 at the top of the device with the inner and outer walls both nailed thereto, and the wooden bottom 11 with both said inner and outer walls also rigidly secured thereto, binds said parts very strongly together at both the bottom and the top of the receptacle. And the wooden bottom 11 pressing upon the band which in turn presses the inturned lower end of the flexible cover and forcing the same into the annular depression or groove 13 also binds the wooden bottom 11, the metallic bottom 12, and the outer cover, into very rigid and permanent engagement with each other.

In operation, when the outer cover 1 is snagged, the paper lining 3 will prevent the ground cork or other insulating filling 4 from leaking out; but if the paper lining 3 is also snagged the natural tendency of an opening thus made in paper is to close, especially when pressed back from the inner side by a yielding mass of material such as the packing 4. This will prevent any ordinary leaking out of the filling 4, but if still greater protection against leakage is desired, then the sheet of batting 3^a is employed at the inner side of the lining 3. This will render it practically impossible for any of the filling 4 to leak out, even though the cover be snagged very severely.

From the foregoing, it will be seen that I have provided a shipping receptacle of simple construction, but with its parts very strongly united together, and one from which the ground cork or other heat-insulating material cannot leak out, even though the outer cover be subjected to hard usage causing it to have snagged places in it.

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

A device of the character described, comprising an inner rigid vessel, and a larger outer vessel with flexible walls surrounding said inner receptacle, said outer vessel having a lower metallic bottom with an annular groove adjacent the outer periphery thereof; a wooden bottom for said outer receptacle, said wooden bottom being located above said metallic bottom, with the lower end of the flexible wall of the outer vessel turned inwardly between said lower metallic bottom and said wooden bottom; a band of the same diameter as the groove in the metallic bottom, said band resting on said inturned lower end of said outer flexible covering immediately over said groove; and said upper wooden bottom resting upon said band to press the same into said groove; whereby to cause said band to take a biting hold on said inturned lower end of said outer flexible cover.

In testimony whereof I affix my signature.

WALTER T. BEVERLY.