R. J. WOODBURY.

SANITARY CARRIER FOR LIQUID RECEPTACLES.

APPLICATION FILED JUNE 19, 1913.

1,109,496.

Patented Sept. 1, 1914.

2 SHEETS—SHEET 1.

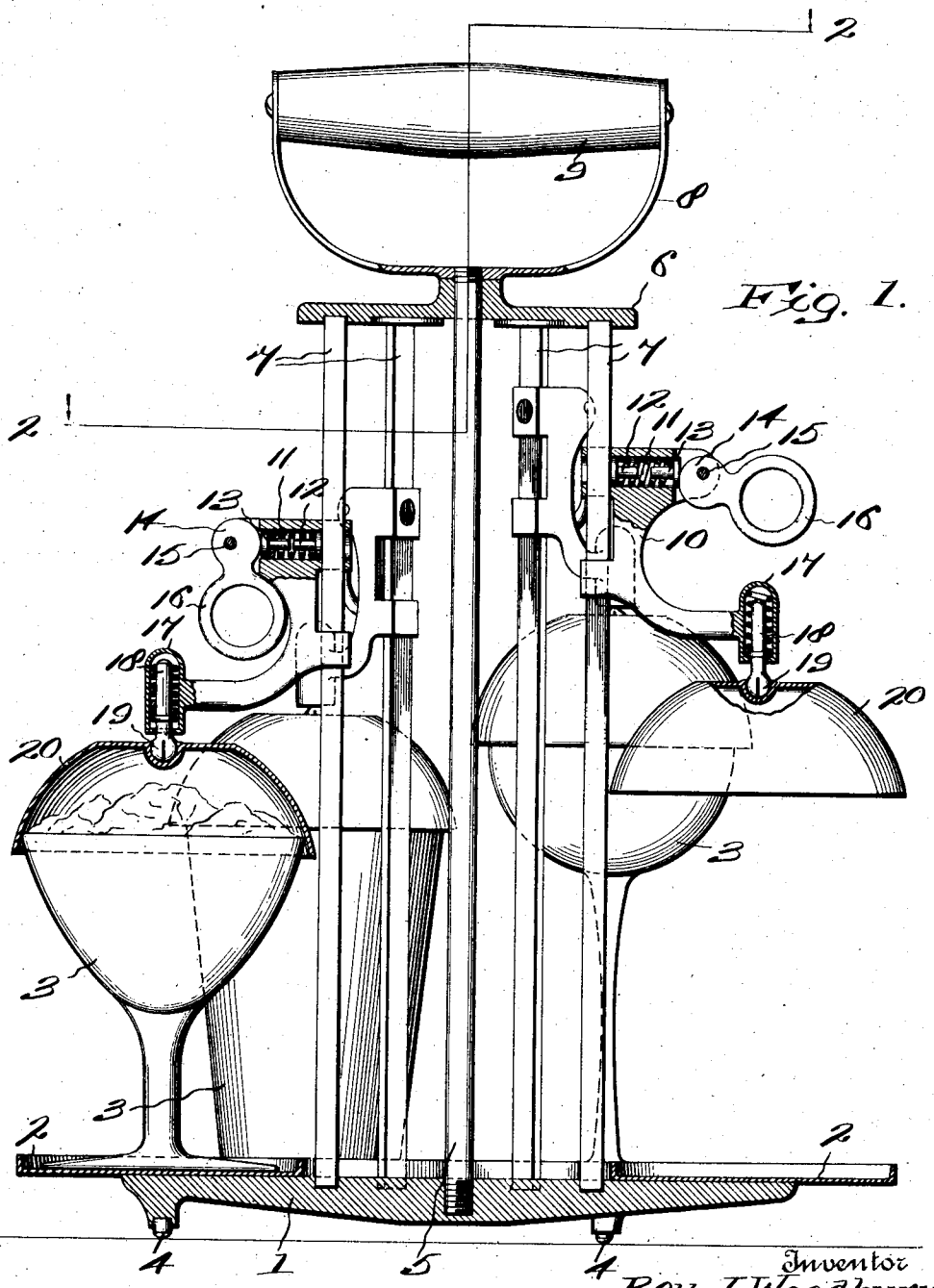

Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 2.

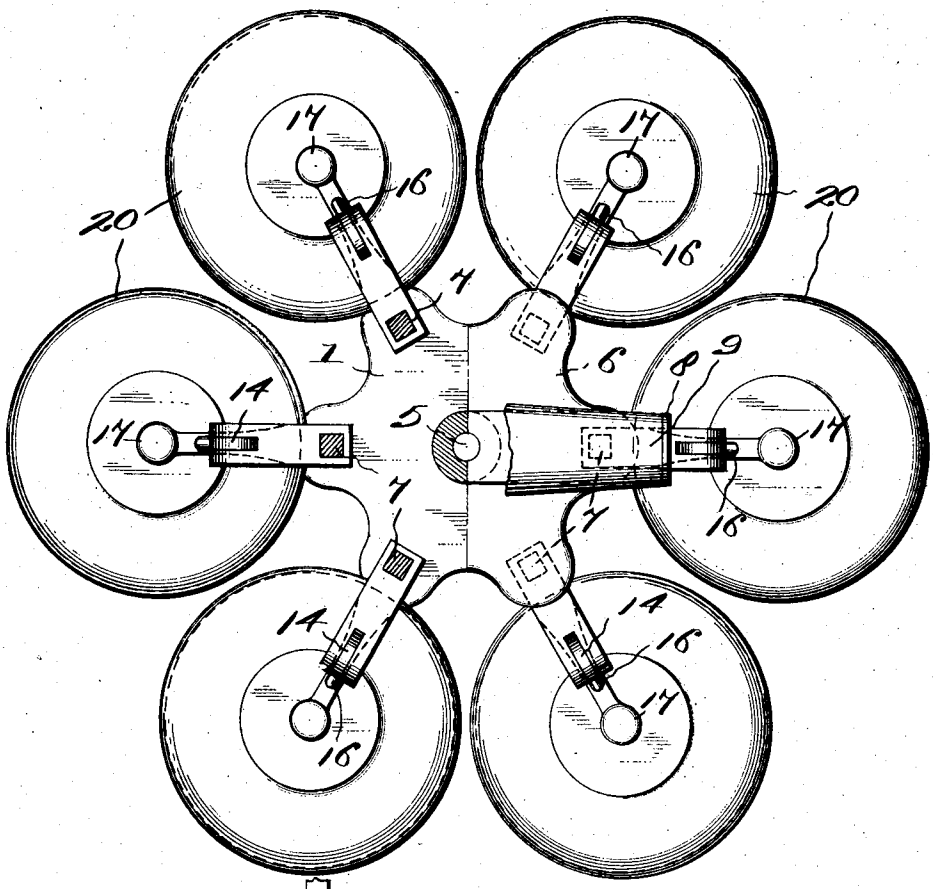
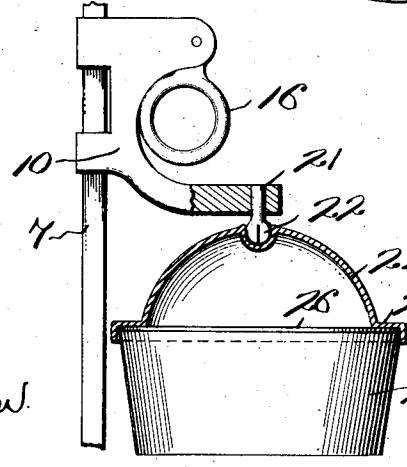


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SANITARY CARRIER FOR LIQUID-RECEPTACLES.

1,109,496. Specification of Letters Patent. Patented Sept. 1, 1914.

Application filed June 19, 1913. Serial No. 774,662.

To all whom it may concern:

Be it known that I, ROY J. WOODBURY, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Sanitary Carriers for Liquid-Receptacles; and I do hereby 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.

My invention relates to an improved sanitary carrier, and it consists in the constructions, combinations and arrangements herein described and claimed.

An object of my invention is to provide an improved sanitary carrier adapted to effectively seal open receptacles for protecting the contents thereof against contamination.

A further object of my invention is to provide an improved sanitary carrier for a plurality of open receptacles, which is constructed to independently clamp the several receptacles in tightly closed condition and permit the independent removal of any desired receptacle while maintaining the remaining receptacles sanitarily sealed.

A further object of my invention is to provide a compact and attractive sanitary carrier adapted for ready and convenient use in carrying and serving drinks.

I have illustrated and described my invention applied to a sanitary carrier adapted especially for the sanitary conveying and serving of drinks, but my invention is obviously adaptable for all uses and purposes in which it is desired to maintain or convey the liquid or solid contents of open receptacles in a thoroughly sanitary condition.

In the accompanying drawings forming a part of this application, and in which similar reference symbols indicate corresponding parts in the several views:—Figure 1 is a side elevation, with parts shown in section, illustrating one embodiment of my invention; Fig. 2 is a section on the line 2—2 of Fig. 1; and Fig. 3 is a detail elevation, partly in section, illustrating a modified form of receptacle cover and supporting attachment therefor.

Referring to the drawings, 1 indicates a base member provided with any desired number of seats 2 for receiving various types of open receptacles, such as the glasses 3; said base can be advantageously cast or stamped in a single integral piece, and may be provided with supporting feet 4 of rubber, or other non-abrasive material.

A supporting post 5 is threaded, or otherwise secured, to the base member 1 and extends freely through a top member 6; a series of square guides 7 extending between said top and base members with their ends fitting within recesses therein. The post 5 and guides 7 are preferably formed hollow to provide a rigid construction with a minimum of weight. Any suitable device 8 for carrying a handle 9 is screwed on the post 5 in engagement with the top member 6 for rigidly clamping together said top and base members and the guides 7; thereby providing a strong and rigid rack, or carrier frame, which is simple in construction and adapted to be readily taken apart for cleaning, or repairs.

An adjustable support 10 is slidably mounted on each guide 7 and provided with a bore in which a spring 11 is confined between the enlarged heads of a pair of slidably-mounted pins 12 and 13; said pins engaging, respectively, the slide 7 and a cam 14 pivoted thereon at 15 and provided with a suitable actuating handle 16. This provides an improved construction, in which the spring-pressed pin 12 normally prevents all lost motion or slipping of the support 10 on its guide 7, and in which the spring 11 can be compressed by turning the cam 14 to locked position to press the pin 12 with a strong clamping action against said slide 7 for positively locking the support in any adjusted position on said slide.

The sliding supports 10 are provided with hollow heads 17 in which are mounted spring-pressed plungers 18, which terminate in split resilient balls 19 on which are removably snapped the receptacle covers 20 of flexible resilient material. The covers 20 are shown of concave, or zone-shaped cross section, and provided at their center portions with sockets for receiving the attaching balls 19 of the adjustable supports 10, and said covers are advantageously formed of sufficient size to overlap and seal the rim or edge of glasses, or other receptacles, of the largest size to be employed with the carrier; whereby the zone-shaped walls of the covers will closely engage and effectively seal the glasses of smaller size. This pro-

vides a novel and highly advantageous construction, in which the resilient zone-shaped wall of the cover extends above the glass to provide ample space for receiving whipped cream, or other material, projecting above the rim of the glass, and acts to insure a tight sealing contact with the entire rim of the various different sizes of glasses employed, and the universal connection of said cover to the ball 19 enables said cover to automatically adjust itself to variations in the position of the glasses relative thereto and irregularities in the glasses. Further, the spring-pressed plunger 18 acts automatically to maintain a constant effective pressure on the cover 20, and eliminates danger of distortion or injury to the cover or glass by excessive pressure therebetween.

Fig. 3 illustrates a slight modification, in which a pin 21 is rigidly attached to the slide 10 and terminates in a split resilient ball 22 on which the cover receptacle 23 is removably snapped. The cover 23 is shown provided with a plane annular portion 24 formed with a peripheral flange 25 for fitting over the edge of a glass; a suitable gasket, such as a paper disk 26, being clamped between the annular portion 24 of the cover and the glass 27. In this modified construction, the resiliency of the spherical concave portion 23 of the cover acts to automatically maintain the cover in close sealing contact with the glass.

In the operation of my invention, glasses, or other open receptacles of the desired sizes are placed in the rack and the respective slides 10 adjusted downwardly on their guides 7 and locked in position by the cams 14 for firmly maintaining the corresponding covers 20 clamped over the edges of the glasses. The carrier can then be used for conveniently conveying the receptacles to any desired location, and the covers independently raised from the several receptacles as desired.

I have illustrated and described preferred and satisfactory constructions, but changes could be made within the spirit and scope of my invention.

I claim:—

1. In a sanitary carrier for receptacles, the combination of a carrying rack, receptacle covers adapted to fit vessels of various sizes, mounted to permit universal movement, and means for resiliently mounting said covers.

2. In a sanitary carrier for receptacles, the combination of a carrying rack, receptacle covers adapted to fit vessels of various sizes, and mounting means for said covers adapted to permit adjustment of each cover independently at various heights.

3. In a sanitary carrier for receptacles, the combination of a carrying rack, receptacle covers adapted to fit vessels of various sizes, mounted to permit universal movement, means for resiliently mounting said covers and means for adjusting each cover independently at various heights.

4. In a sanitary carrier for receptacles, the combination of a carrying rack, a concave receptacle cover of flexible resilient material adapted to fit vessels of various sizes, and means for clamping said concave cover in tight closing engagement over the edge of the receptacle.

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

ROY JOHN WOODBURY.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."