

May 19, 1925.

H. F. GILBERT

1,538,693

CONTAINER RACK

Filed Jan. 6, 1922

Fig. 1.

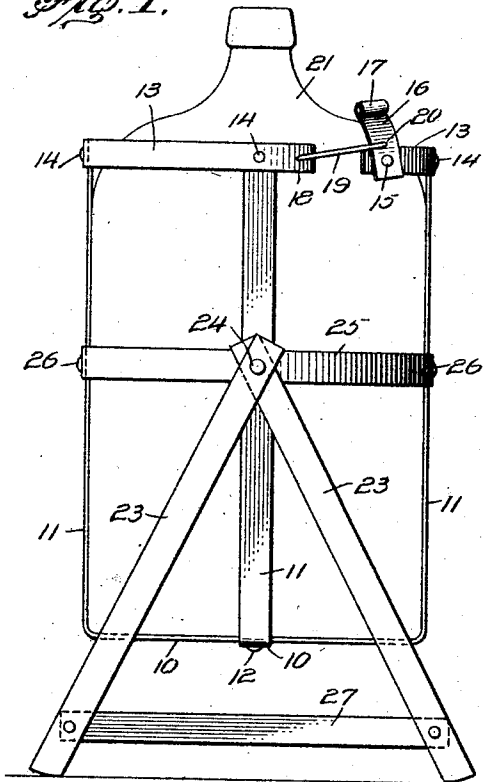


Fig. 2.

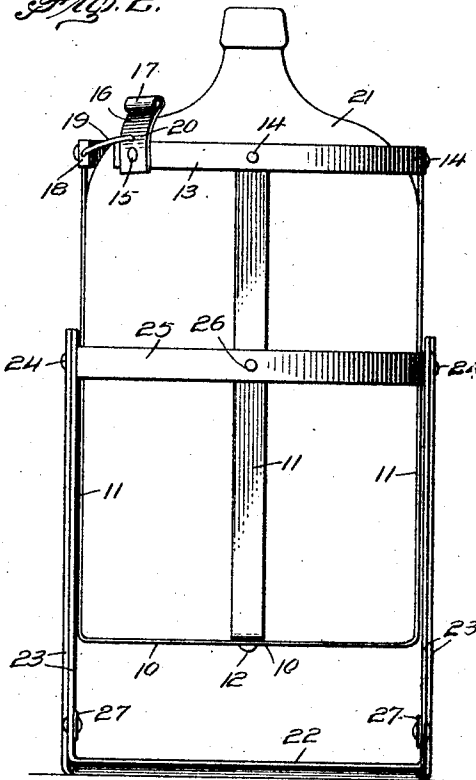


Fig. 3.

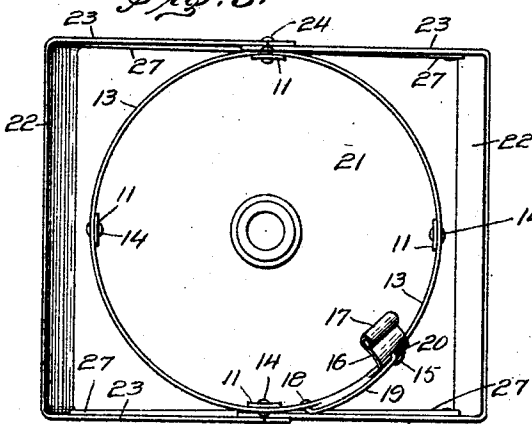


Fig. 4.

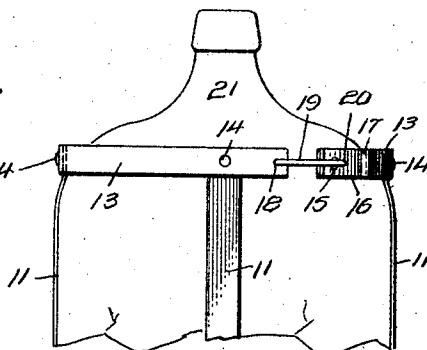
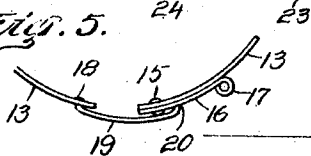


Fig. 5.



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UNITED STATES PATENT OFFICE.

HENRY F. GILBERT, OF MIAMI, FLORIDA.

CONTAINER RACK.

Application filed January 6, 1922. Serial No. 527,347.

To all whom it may concern:

Be it known that I, HENRY F. GILBERT, a citizen of the United States, residing at Miami, in the county of Dade and State of Florida, have invented certain new and useful Improvements in Container Racks, of which the following is a specification.

This invention relates to holders for containers, more particularly to relatively large containers for liquids, such as carboys for acids, bottles for water or other liquids and the like, and has for one of its objects to provide a device of this character which is capable of being clamped to the container and adjustable to fit containers of varying dimensions.

With these and other objects in view the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claim, and in the drawings illustrative of the preferred embodiment of the invention:—

Figure 1 is a view from one side with the clamping device in open or unlocked position.

Fig. 2 is an elevation from the side at right angles to that shown in Fig. 1.

Fig. 3 is a plan view with the parts arranged as in Figs. 1 and 2.

Fig. 4 is a view similar to Fig. 1 with the clamping device in closed or locked position.

Fig. 5 is a detail of the clamping device.

The improved device comprises a cage device formed of coacting U shaped members each including transverse lower portions 10 crossing intermediate their ends, and vertical side portions 11 in uniformly spaced relation and riveted together where they cross as at 12.

The members 11 are of bendable material, such as strips of metal, preferably steel, as shown.

A divided band 13 is riveted or otherwise attached as at 14 to the upper ends of the side portions 11 with its ends in spaced relation.

Pivoted at 15 to the band 13 near one end is a locking lever 16 preferably curved to conform to the curvature of the band and with a roll 17 at the other end to form a finger grip.

Pivoted at one end at 18 to the other terminal of the band is a pull rod 19 with its other end pivoted at 20 to the locking lever 16, the pivotal point 20 being spaced a short

distance from the pivot 15 of the lock lever 16.

By this means it will be obvious that when the lock lever 16 is turned over toward the pivoted end 18 of the pull rod 19, the divided band will be distended or held in open position, as in Figs. 1, 2 and 3, and when turned into substantially parallel relation to the portion of the band to which it is pivoted, a strong pulling force will be applied to draw the terminals of the band toward each other and bend the vertical members 11 inwardly and firmly compress them against the retainer, indicated at 21.

The "cage" is thus firmly "anchored" to the container and not only supports and protects the container but provides a convenient means for handling and transporting the same.

The holders for containers of this class are usually swingingly mounted upon a frame to enable them to be tilted to discharge the contents, hence the necessity of producing a holding cage which may be firmly clamped to the container to hold it while being thus tilted.

A convenient support for the cage is shown comprising coacting U shaped standards each comprising lower horizontal portions 22 and upstanding side portions 23, the latter crossing at their upper ends and united by pivots 24 which likewise form trunnions engaging an intermediate endless band 25 riveted or otherwise secured at 26 to the vertical cage members 11.

The inclined members 23 are reinforced and supported by tie members 27.

The containers 21 are usually formed with inwardly curving upper portions as at 28, and the upright members 11 are of sufficient length to dispose the divided band 13 opposite the inwardly curving portions, so that when strain is applied to the divided band by the lever member 16, the upper portions of the members 11 will be bent over the curved portions, as shown in Fig. 4, and materially increase the "grip" of the holder upon the container.

The improved device is simple in construction, can be inexpensively manufactured, and operates effectually for the purposes described.

The preferred embodiment of the invention is disclosed in the drawings and set forth in the specification, but it will be understood that modifications within the scope

of the claimed invention may be made in the construction without departing from the principle of the invention or sacrificing any of its advantages.

5 Having thus described the invention what is claimed as new is:—

10 In a container support of the character described, a frame comprising a pair of vertically positioned U-shaped members positioned at right angles one with respect to the other, and secured together at their contacting lower portions, a circular band surrounding and connecting the members intermediate their ends, a split band surrounding and secured to the members at their upper ends, a curved lever member having one end pivotally secured to one end of said split band upon the outer side thereof, said curved lever member having a curve equal
20 to the curve of the band to which it is at-

tached and adapted when in one position to lie snugly against the outer surface of said split band, a curved link member having one end secured to the other end of the said split band and having its other end secured to the said lever inwardly of its pivotal point, said link and lever acting, when the lever is shifted from a vertical to a horizontal position to draw, through the action of the connecting link, the ends of the split ring toward one another to bend inwardly the upper ends of the said U-shaped members to secure a container within the said frame, and a base and pivot means for swingingly suspending the said frame in position.

In testimony whereof, I affix my signature hereto.

HENRY F. GILBERT.