W. B. WILLIAMS.

RECEPTACLE CLAMPING DEVICE.

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**989,743.** Patented Apr. 18, 1911.

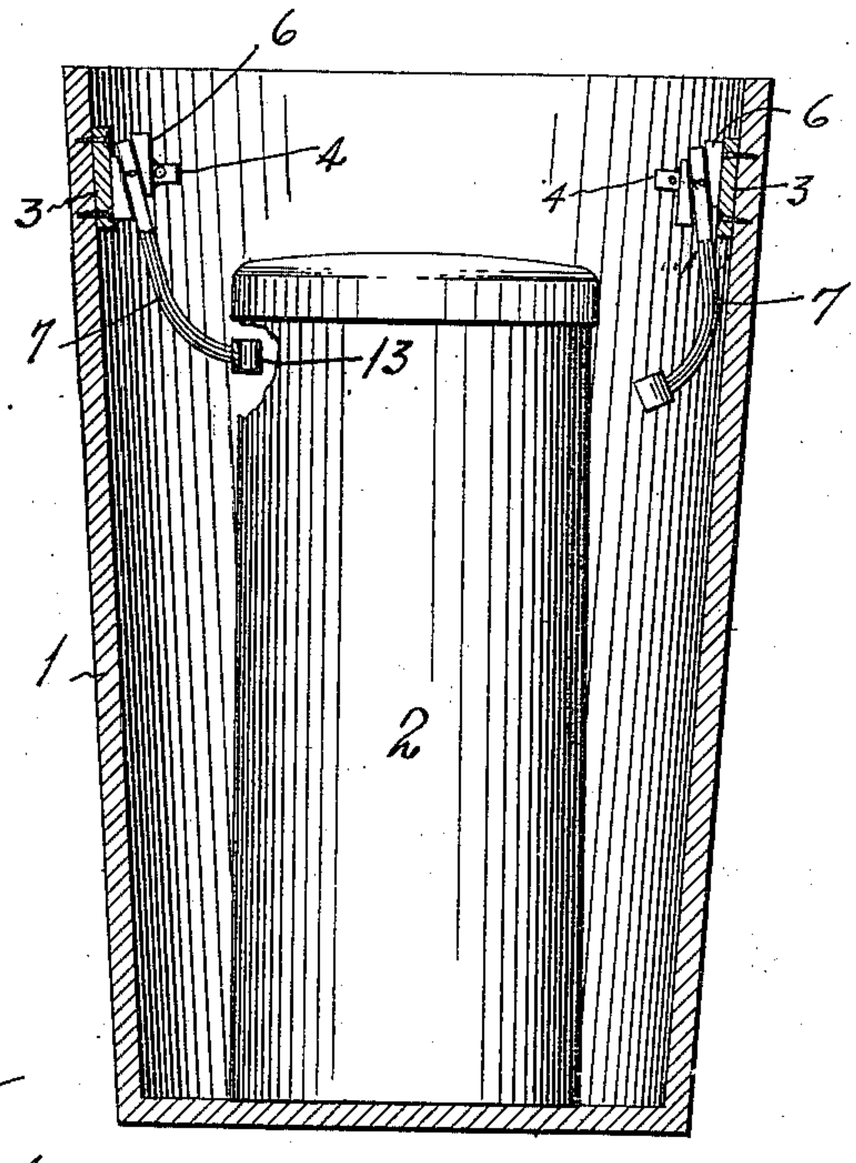


Fig. 1.

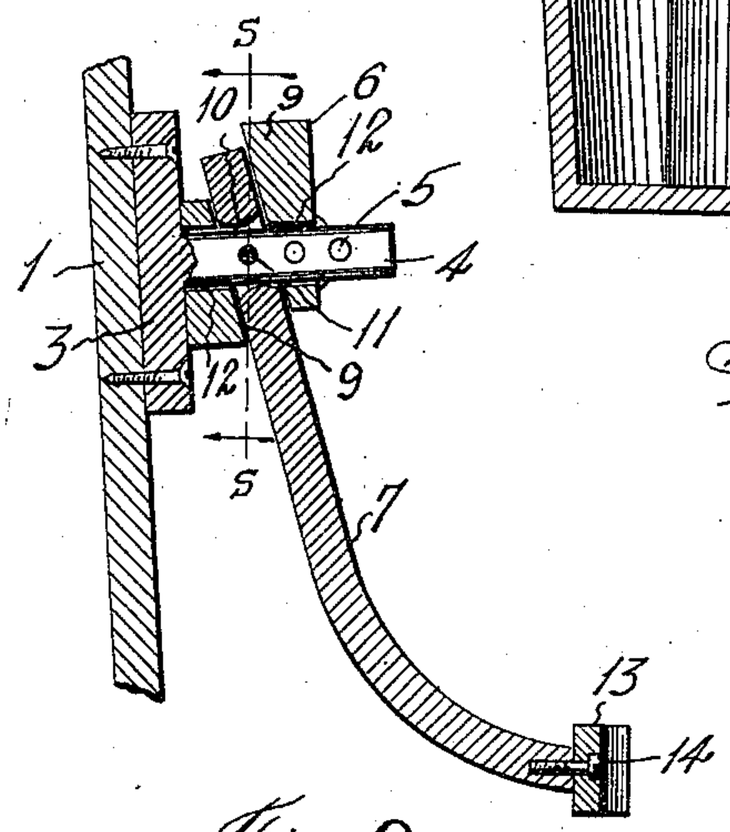


Fig. 2.

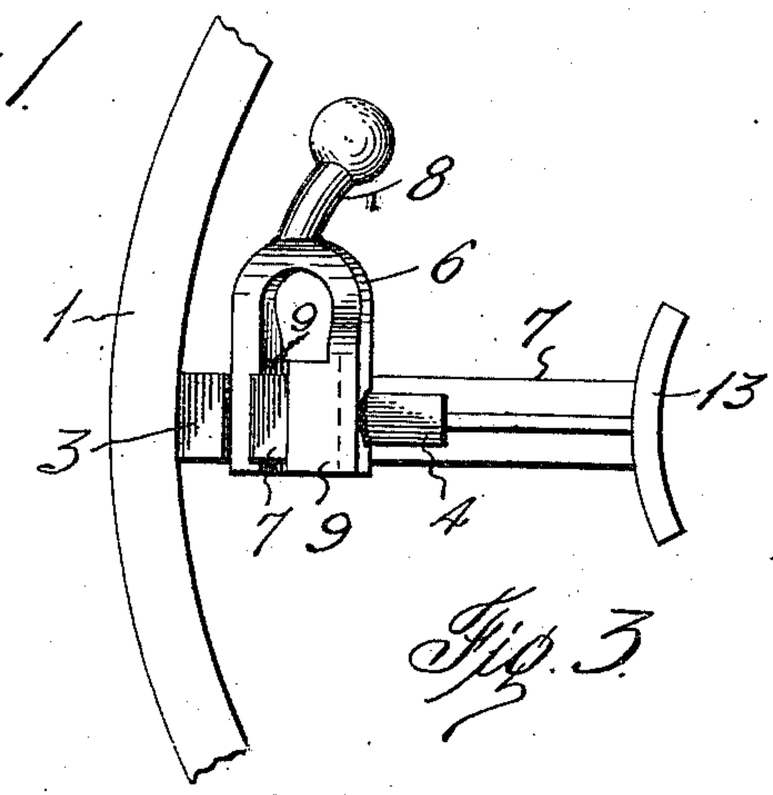


Fig. 3.

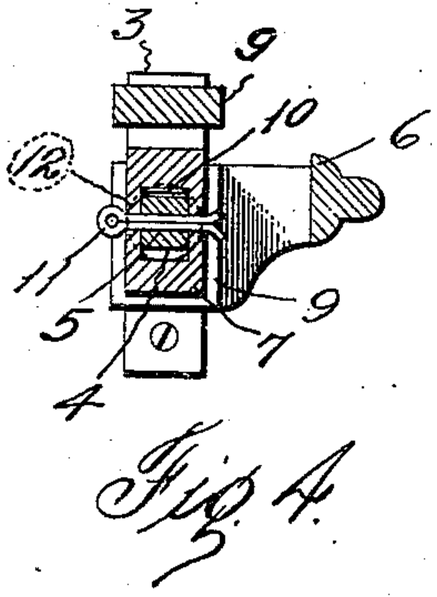


Fig. 4.

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# UNITED STATES PATENT OFFICE.

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## RECEPTACLE-CLAMPING DEVICE.

989,743. Specification of Letters Patent. Patented Apr. 18, 1911.

Application filed September 24, 1910. Serial No. 583,649.

*To all whom it may concern:*

Be it known that I, WINFIELD B. WILLIAMS, citizen of the United States, residing at Waxahachie, in the county of Ellis and State of Texas, have invented certain new and useful Improvements in Receptacle-Clamping Devices, of which the following is a specification.

This invention relates to clamping devices for receptacles.

The object of the invention is to provide a plurality or clamping devices whereby one receptacle may be clamped in another and the device is so constructed that they may be expeditiously operated to either clamp the receptacle or release it.

Finally the object of the invention is to provide means of the character described that will be strong, durable, efficient, and easy of operation, simple and comparatively inexpensive to construct, and also in which the several parts will not be likely to get out of working order.

With the above and other objects in view, the invention has relation to certain novel features of construction and operation, an example of which is described in this specification and illustrated in the accompanying drawings, wherein:

Figure 1. is a view showing a tub in vertical section with a receptacle in elevation placed in the tub and a pair of the clamping devices attached to the tub, one of said devices being in clamping position and the other out of clamping position, Fig. 2. is a vertical sectional view of one of the clamping devices, Fig. 3. is a plan view of one of the clamping devices, and Fig. 4. is a vertical sectional view on the line S—S of Fig. 2.

It is to be understood that this invention may be employed where it is desired to secure one receptacle in another of a greater diameter and in explaining a form of the invention and one of its uses I have illustrated in the drawings a packing tub 1 and a metal container 2 such as are used in transporting ice cream and ices.

As the clamping devices are substantially identical in construction, a description of one will suffice for both.

A base plate 3 is secured to the inside of the tub 1 a short distance below the top of the same and from this plate a shank 4 extends at substantially right angles thereto. The shank is substantially square in cross section and is provided with a plurality of transverse holes 5. On this shank a locking lever 6 and a clamping arm 7 are mounted.

The locking lever has a general U-shape and is provided with a handle portion 8, the latter being curved so as to direct it away from the tub 1 and give sufficient room therebetween to enable the operator to freely grasp the said handle portion. Each free end of the lever is provided with an inclined boss 9. The faces of the bosses while substantially parallel incline upward toward the container 2 when the lever is in its locking position as shown in Fig. 2, while their inclination is reversed when the lever is swung to release the container as shown at the right hand side of Fig. 1. From this it is obvious that the faces of the bosses incline at an angle other than a right angle from the shank 4. As shown in Fig. 2 the bosses are off-set one from the other thus saving material in constructing the lever.

Near its upper end the arm 7 is provided with an elongated opening 10 through which the shank 4 is passed. A cotter pin 11 is passed through the arm 7 and one of the holes 5. The elongated opening 10 permits the arm to be swung on the pin 11 which forms a pivot. The lever 6 at its free end is provided with circular openings 12 through which the shank 4 passes and whereby the lever may be freely rotated on the shank, the edges of the latter being rounded as is shown in the drawings.

The arm 7 is positioned between the inclined faces of the bosses and there is a slight play to permit the lever to be freely turned. At its lower end the arm is curved outward and supports a curved clamping member 13 secured thereon by a screw 14 as shown in Fig. 2 or made integral therewith if desired. This clamping member may be made of rigid material or of resilient material and frictionally engages the container 2 to hold the same in place.

It is obvious that the clamping devices are placed on opposite sides of the packer tub as shown in Fig. 1. By swinging the levers 6 in one direction the locking arms 7 are thrown away from the container 2, the levers acting as cams and the direction of inclination being reversed as the levers are swung. When the levers are swung in the opposite direction the clamping arms are swung on their pivots so that the clamping

devices 13 frictionally engage the container 2 on opposite sides. It is apparent that the container is released by merely swinging the levers. Where the members 13 are made of resilient material they will conform to the contours of containers of different shapes. By reason of the holes 5 the clamping arms may be set to clamp containers of different diameters.

What I claim is:

1. In a receptacle clamping device, a base plate, a shank extending from the base plate, a clamping arm pivoted on the shank, and a locking lever mounted on the shank and having inclined bosses between which the clamping arm extends.

2. In a receptacle clamping device, a base plate, a shank extending from the base plate and exhibiting a square shape in cross section, a non-rotating clamping arm pivoted on the shank, and a locking lever rotatably mounted on the shank and having inclined bosses between which the clamping arm extends.

3. The combination with a receptable and a second receptacle disposed therein, of a pair of clamping devices each comprising a base plate, secured to the inside of the first receptacle, a support extending from the base plate, a clamping arm pivoted on the support and engaging at its lower end the second receptacle, and a rotating lever mounted on the support and engaging the clamping arm, the clamping arms engaging the second receptacle in opposed relation.

4. The combination with a receptacle and a second receptacle disposed therein, of a pair of clamping devices each comprising a base plate secured to the inside of the first receptacle near its upper end, a support carried by the base plate, a non-rotating clamping arm pivoted on the support and adapted to engage the upper portion of the second receptacle, and a rotatable lever mounted on the support and having an inclined surface on each side of the clamping arm.

5. The combination with a receptacle and a second receptacle disposed therein, of a pair of clamping devices each comprising a base plate secured to the inside of the first receptacle near its upper end, a non-rotating clamping arm pivotally supported by the base plate, a clamping member on the lower end of the arm, and a locking lever rotatably supported by the base plate provided with inclined bosses straddling the upper end of the clamping arm, the clamping members adapted to engage the second receptacle in opposed relation.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WINFIELD B. WILLIAMS.

Witnesses:

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