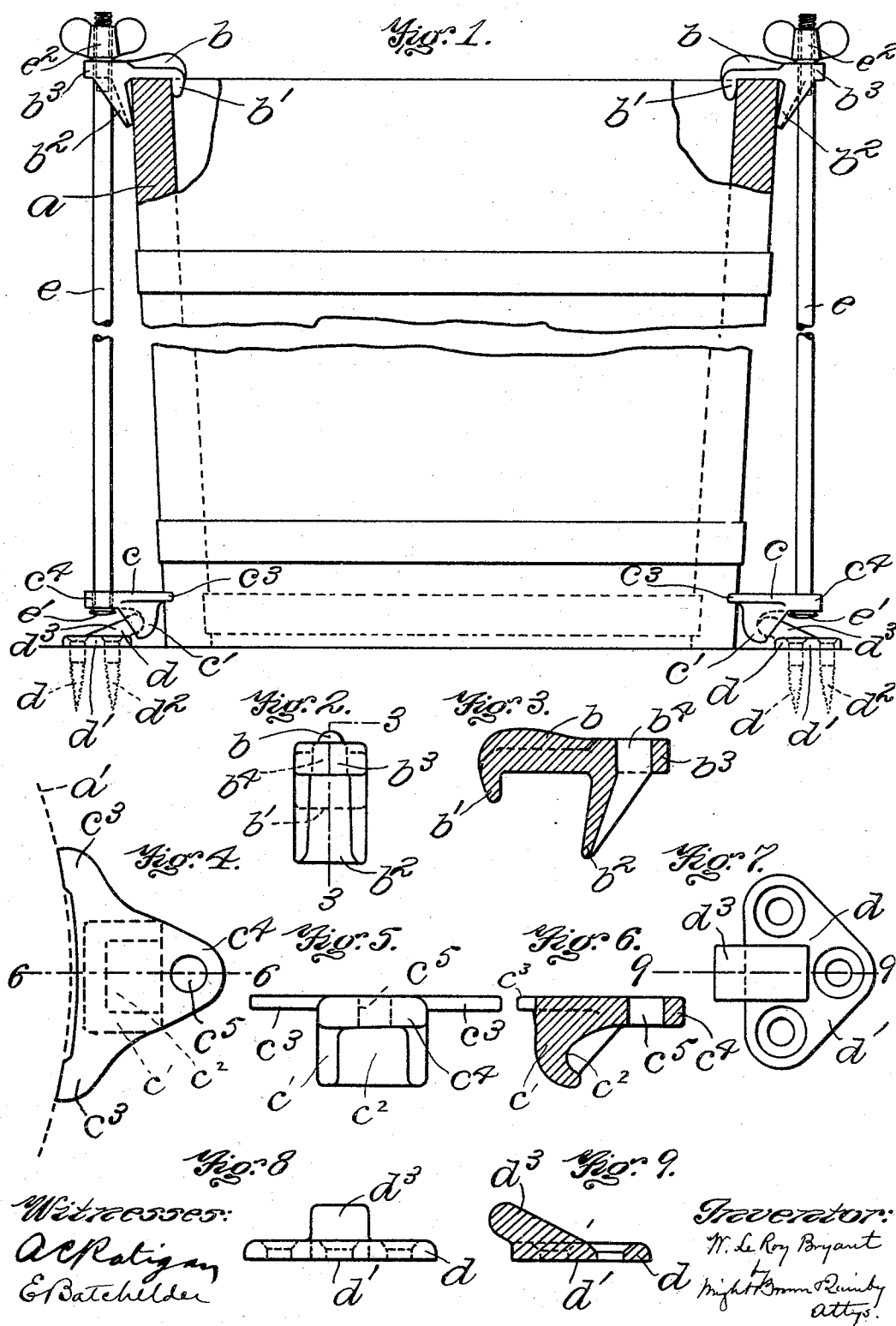


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PATENTED FEB. 21, 1905.

W. LE R. BRYANT.
TUB OR PAIL CLAMP.
APPLICATION FILED SEPT. 6, 1904.



UNITED STATES PATENT OFFICE.

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TUB OR PAIL CLAMP.

SPECIFICATION forming part of Letters Patent No. 783,099, dated February 21, 1905.

Application filed September 6, 1904. Serial No. 223,339.

To all whom it may concern:

Be it known that I, WILLIAM LE ROY BRYANT, of Springfield, in the county of Windsor and State of Vermont, have invented certain new and useful Improvements in Tub or Pail Clamps, of which the following is a specification.

This invention has for its object to provide means for securing to a floor or other support a receptacle having either an open or a closed top.

The invention has special reference to means for securing a cylindrical vessel or receptacle, such as the tub of an ice-cream freezer, although it may be used for holding a receptacle of any desired form and size and is not limited to use in connection with cylindrical receptacles, since it may, if desired, be used for holding rectangular boxes.

The invention consists in the improved clamp or holder which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of a holder embodying my invention applied to a cylindrical tub, the latter being shown partially in section. Fig. 2 represents a rear elevation of the rim-engaging jaw. Fig. 3 represents a section on line 3 3 of Fig. 2. Fig. 4 represents a plan view, and Fig. 5 a rear view, of the body-engaging jaw. Fig. 6 represents a section on line 6 6 of Fig. 4. Fig. 7 represents a top view, and Fig. 8 a rear elevation of the fulcrum-piece. Fig. 9 represents a section on line 9 9 of Fig. 7.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents a cylindrical tub or vessel, here shown as of the form usually employed in ice-cream freezers. My improved holder as a whole comprises a plurality of the hereinafter-described clamps, two of said clamps being shown in the present case, although it is obvious that any other suitable number may be employed, each clamp being a duplicate of the others. The said clamp comprises a rim-engaging jaw *b* a body-engaging jaw *c*, an adjustable connection between said jaws, and *b*, a fulcrum *d*, adapted to be attached to the floor or other

support on which the vessel *a* rests and to engage the body-engaging jaw *c*. The rim-engaging jaw *b* has a body portion adapted to bear upon and extend across the wall of the vessel at the upper end thereof, said body portion having at its inner portion a hook *b'*, formed to bear on the inner surface of the vessel. At the outer portion of the jaw *b* is a downwardly-extending arm or finger *b''*, formed to bear on the outer surface of the vessel.

b''' is an ear which projects outwardly from the body portion of the jaw *b* and is provided with an aperture *b''''*. The body-engaging jaw *c* comprises a body portion having a downwardly-projecting arm *c'*, in one side of which is formed a recess or socket *c''*, having a curved face which forms a seat or bearing for the fulcrum. The jaw *c* is also provided with oppositely-extending arms *c'''* *c'''*, which are shaped to conform to a portion of the periphery of the vessel *a*, as shown in Fig. 4, in which the dotted line *a'* represents the periphery of the vessel. The jaw *c* is also provided with an ear *c''''*, having an aperture *c'''''*. The adjustable connection between the jaws *b* and *c* comprises a rod *e*, which passes through the apertures in the ears *b'''* and *c''''* and is provided at one end with a head *e'*, bearing against one of said ears, and at the other end with an adjustable thumb-nut *e''*, engaging a thread formed on the rod *e* and bearing against the other ear. The fulcrum *d* comprises a flat base *d'*, formed to bear upon a floor or other support upon which the vessel *a* is placed and provided with holes to receive attaching-screws *d''*, and an arm *d'''*, projecting upwardly from the base and beyond one edge of the same, said arm having a rounded outer portion formed to engage the fulcrum seat or bearing *c''* in the jaw *c*.

In securing a vessel *a* by the means above described the vessel is first placed upon the floor between the fulcrum-pieces, the jaw *b* is then applied to the rim of the vessel, and the jaw *c* is engaged with the fulcrum and with the periphery of the vessel near the bottom of the latter. The nut *e''* is then adjusted downwardly upon the rod *e*, this operation having the effect of drawing the jaws *b* and *c*

toward each other. The jaw *b* is thus pressed firmly downward against the rim of the vessel, while the jaw *c* is at the same time given a slight swinging movement on the fulcrum, which movement causes the arms *c*³ to press firmly against the periphery of the vessel. The jaws are therefore adapted to be simultaneously engaged with and disengaged from the vessel.

10 It will be seen that when the two clamps shown in Fig. 1 have been adjusted in the manner above described the vessel will be firmly secured in place.

I do not limit myself to the particular form 15 of the parts or members of my improved clamp here shown and described, it being obvious that the form and construction of the rim-engaging jaw, the body-engaging jaw having a fulcrum-seat, the adjustable connection between said jaws, and the fulcrum adapted to 20 be secured to a floor and to engage the seat on the body-engaging jaw may be variously modified without departing from the spirit of my invention.

25 I claim—

1. A vessel-clamp comprising a fulcrum-piece adapted to be attached to a support, a body-engaging jaw adapted to engage the fulcrum-piece, a rim-engaging jaw, and means 30 for connecting and exerting pressure on said jaws to simultaneously engage the jaws with a vessel.

2. A vessel-clamp comprising a fulcrum-piece adapted to be attached to a support, a 35 body-engaging jaw adapted to engage the fulcrum-piece, a rim-engaging jaw, and an adjustable connection between said jaws, adapted to exert pressure on the jaws and engage them simultaneously with a vessel.

3. A vessel-clamp comprising a fulcrum-piece adapted to be attached to a support, a body-engaging jaw adapted to engage the fulcrum-piece, a rim-engaging jaw, and a rod having a head bearing on the body-engaging jaw, and an adjustable nut bearing on the rim-engaging jaw.

4. A vessel-clamp comprising a fulcrum-piece adapted to be attached to a support, a body-engaging jaw adapted to engage the fulcrum-piece and formed to receive a portion of the periphery of a cylindrical vessel, a rim-engaging jaw formed to bear on the upper edge of the vessel, and means for connecting and exerting pressure on said jaws, to simultaneously engage them with a vessel.

5. A vessel-clamp comprising a fulcrum-piece having a base adapted to be attached to a vessel-support, and an arm projecting upwardly from said base, a body-engaging jaw having a seat or bearing adapted to engage said arm, a rim-engaging jaw, and an adjustable connection between said jaws.

6. A vessel-clamp comprising a fulcrum-piece adapted to be attached to a support, a body-engaging jaw having a fulcrum seat or bearing, and an outwardly-projecting apertured ear, a rim-engaging jaw having an outwardly-projecting apertured ear, and a rod passing through said ears and having a head bearing on one ear and a nut bearing on the other ear.

In testimony whereof I have affixed my signature in presence of two witnesses.

WILLIAM LE ROY BRYANT.

Witnesses:

F. D. HILL,

E. M. ELLISON.