E. E. HARDY.

FRUIT JAR COVER CLAMP.

APPLICATION FILED OCT. 16, 1916.

1,260,769.

Patented Mar. 26, 1918.

Fig. 1

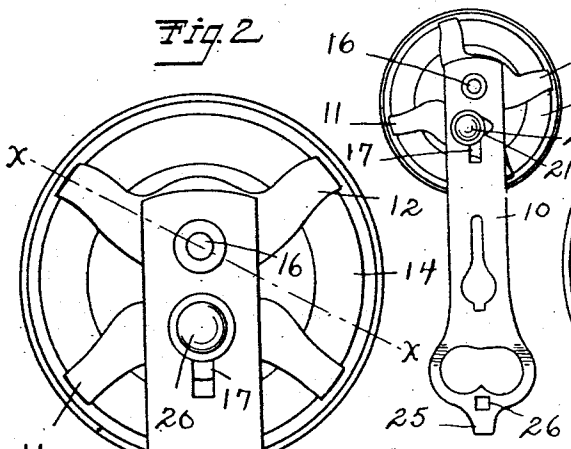


Fig. 2

Fig. 3

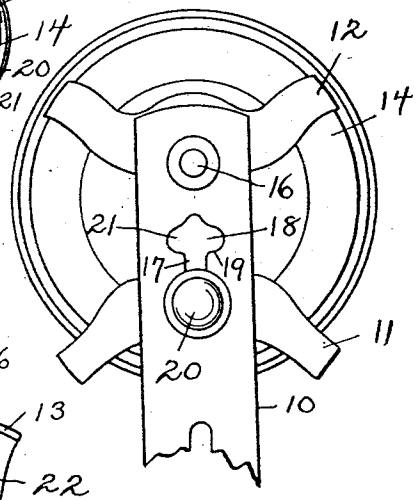


Fig. 4

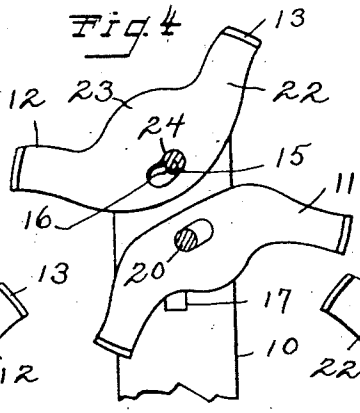


Fig. 5

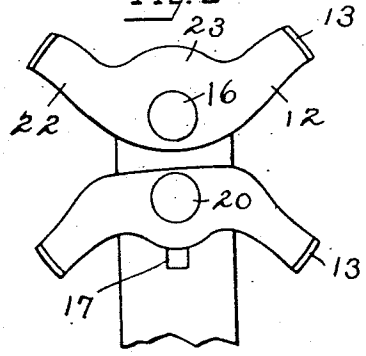


Fig. 6

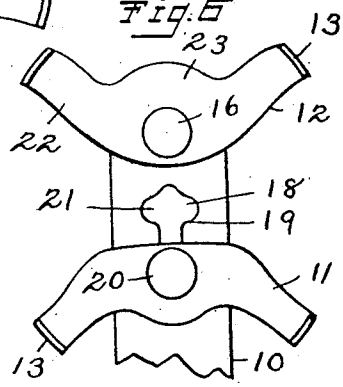
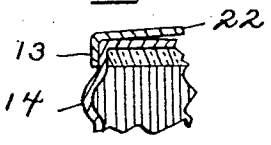


Fig. 7



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UNITED STATES PATENT OFFICE.

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FRUIT-JAR-COVER CLAMP.

1,260,769. Specification of Letters Patent. Patented Mar. 26, 1918.

Application filed October 16, 1916. Serial No. 125,774.

To all whom it may concern:

Be it known that I, EMERY EASTMAN HARDY, a citizen of the United States, residing at Bayside, in the county of Queens and State of New York, have invented certain new and useful Improvements in Fruit-Jar-Cover Clamps, of which the following is a specification.

My invention relates to improvements in fruit-jar cover-clamps, and the object of my improvement is simplicity and economy in construction and convenience and efficiency in use.

In the accompanying drawing:—

Figure 1 is a plan view of my improved fruit-jar cover-clamp and a fruit-jar cover with which it is engaged.

Fig. 2 is a similar view of the same, on an enlarged scale, with the parts in an intermediate position.

Fig. 3 is a similar view of the same with the parts in the full open position.

Fig. 4 is a bottom view with the parts in the position shown in Fig. 1.

Figs. 5 and 6 are similar views with the parts in the positions shown in Figs. 2 and 3 respectively.

Fig. 7 is a fragmentary sectional view on the line x x of Fig. 2.

My improved fruit-jar cover-clamp is made of sheet material and comprises a handle member 10 which has mounted thereon at one end a pair of clamping members, respectively an inner clamping member 11 and an outer clamping member 12, the said clamping members having each a pair of prongs 13 for engaging with the upper portion of a fruit-jar cover 14.

The handle member 10 has near the outer end a hole 15 in which is positioned a rivet 16 for operatively holding the outer clamping member 12. Inwardly from the hole 15 there is provided in the handle member 10 a key-hole slot consisting of the longitudinally directed slot 17 on the side remote from the hole 15, and in alinement therewith, and which opens into the relatively enlarged portion 18 on the side adjacent the said hole 15.

The portion 19 of the border wall of the enlarged portion 18 that is adjacent the straight portion 17, and on each side, is slightly inclined, forming generally an obtuse angle with the adjacent wall of the said straight portion 17, and is also slightly curved, suitably to serve as a cam surface in locking the clamp to the cover in a manner to be described.

A rivet 20 passes through the said key-hole slot 21 and serves operatively to secure the inner clamping member 11 to the handle 10.

The clamping members 11 and 12 are generally similar and comprise each a pair of radial arms 22, having the prongs 13 at the outer ends, the said arms being disposed generally at an obtuse angle and being connected at the junction at the inner ends by the plate-like body portion 23. The body portion 23 is provided with a short slot 24 that is a fit for the rivets 16 and 20. The slot 24 extends laterally across the bisecting radius.

The portion of the slot 24 on one side of the center only is used at one time in clamping, for use in one direction, the portion thereof on the other side being used for clamping in the other direction, the device being usable either right handed or left handed.

In use, at the start the inner clamping member 11 is separated or opened out from the outer clamping member 12 to permit the clamping members being placed on the cover 14, as shown in Fig. 3, the pin 20 being positioned in the straight portion 17 of the key-hole slot 21. The rivet 20 is then pushed along the slot 17, carrying with it the inner clamping member 11, until the prongs 13 engage with the cover 14. Then by applying a turning movement to the handle after the intermediate position described and shown in Fig. 2 in the direction desired the pins 16 and 20 slide to the ends of the cross slots 24, one on one side and the other on the other side of the axis, the clamping members 11 and 12 turning accordingly, and pressure being applied to the prongs 13 due to such movement, until at the final stage the pin 20 engages with one of the cam surfaces 19. As the turning movement is continued, a slight movement along the said cam surface 19 serves to effect a rigid clamping, whereby the device is securely clamped to the cover and the tightening of the cover on the jar may be freely applied as desired.

A reverse movement of the handle effects a release of the device.

The rivet 20 is easily moved outwardly by the thumb of the same hand that holds the handle, the final movement of the said rivet to the locking position in engagement with

the cam surface 19 being effected by the turning movement of the handle.

The end of the handle 10 remote from the clamping members is formed into a screw-driver bit 25 and the body portion adjacent the same as shown at 26 is provided with a square hole, suitable for use as a wrench.

I claim as my invention:—

1. A fruit-jar cover-clamp comprising a handle member and a pair of clamping members, the said clamping members each comprising a pair of radial arms having prongs at the outer ends and a body portion at the junction of the said arms, the said body portions having each a cross slot, the said handle member having a hole and a key-hole slot adjacent the said hole and in alinement therewith, and means for operatively connecting the said clamping members with the said handle member comprising a pin passing through the said hole and through the said cross slot in one of the said clamping members and a second pin passing through the said slot in the handle member and the cross slot in the other of the said clamping members.

2. A fruit-jar cover-clamp comprising a handle member and a pair of clamping members, the said clamping members each comprising a pair of radial arms having prongs at the outer ends and a body portion connecting the inner ends of the said arms, the said body portion having a cross slot, a pin operatively connecting each of the said clamping members with the said handle member, and the said handle member having a hole for receiving one of the said pins and a key-hole slot for receiving the other of the said pins.

3. A fruit-jar cover-clamp comprising a handle member and a pair of clamping members, the said clamping members comprising each a body portion for operatively engaging with the said handle member and a pair of prongs in spaced relation for engaging with the jar cover and connected to the said body portion, a pair of pins serving exclusively of all other connecting and supporting means, through the medium of the said handle member, as the means for operatively supporting and connecting the said clamping members, and being adapted to operatively connect the said body portions with the said handle member, the said handle member having a hole in which one of the said pins is fixedly secured, and the said handle member having a transversely directed cam slot for coöperating with the other of the said pins.

EMERY EASTMAN HARDY.

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