(No Model.)

F. & E. MONIER.

JAR COVER FASTENING.

No. 424,720. Patented Apr. 1, 1890.

Fig. 1

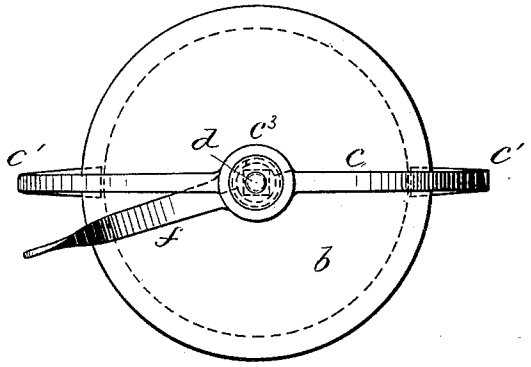


Fig. 2

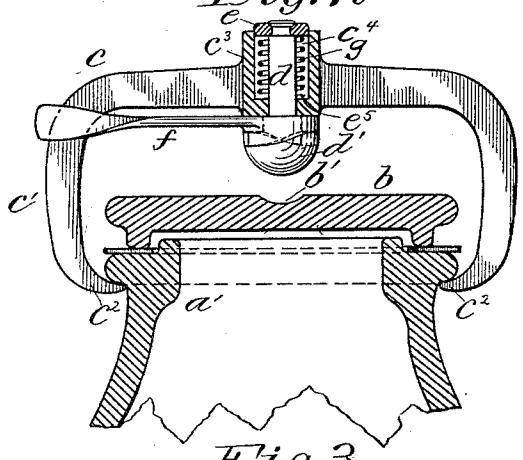


Fig. 4

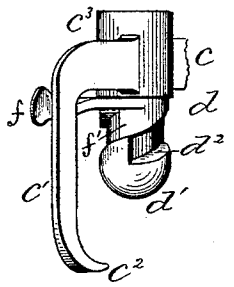
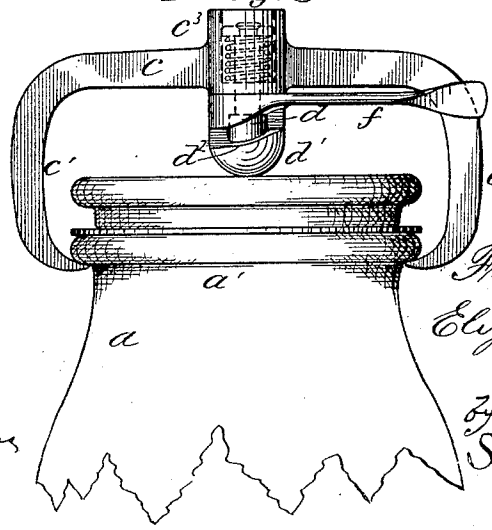


Fig. 3



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JAR-COVER FASTENING.

SPECIFICATION forming part of Letters Patent No. 424,720, dated April 1, 1890.

Application filed January 6, 1890. Serial No. 336,085. (No model.)

To all whom it may concern:

Be it known that we, FREDRICK MONIER and ELIZABETH MONIER, of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Jar-Cover Fastenings, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

Our invention relates to the class of devices used for fastening the covers of fruit-jars and the like securely in place; and the object of our invention is to provide such a device that will hold the cover of a jar securely in place in such manner as to exclude the air from the jar, and also to provide a fastener of this class that can be quickly and easily loosened to remove the cover.

To this end our invention consists in details of the several parts making up the device as a whole, and in their combination, as more particularly hereinafter described, and pointed out in the claims.

Referring to the drawings, Figure 1 is a plan view of a jar and cover with our improved fastener attached. Fig. 2 is a front view of the upper part of a jar and cover and of our improved fastener, the latter being shown as released from the cover, so that the device may be removed from the jar and the upper part of the fastener being cut away to show construction. Fig. 3 is a front view of the upper part of a jar and cover and of our improved fastener, the latter being shown as clamped to the jar and holding the cover in place. Fig. 4 is a detail view of the clamp with one of the arms broken away.

In the accompanying drawings, the letter a denotes a jar having a neck a', and on the outside of the neck shoulders located diametrically opposite each other and preferably formed by a flange or annular bead extending completely around the neck near the upper part. This jar a is provided with a cover b of any convenient size and shape, but preferably hollowed out at the center to form a recess or socket b' for the head of the pivot-pin.

The clamping-yoke c is adapted to span the top of the jar, and has arms c', that extend outward and downward, and at the extreme ends are bent inward and form hooks c'', that engage the under side of the shoulder or flange on the diametrically-opposite sides of the jar. This clamping-yoke c has a central hub c^3, with a hole c^4, therethrough for the reception of a pivot d. This pivot d has at its lower end a head d', preferably rounded on the under side to form a proper contact or bearing on the top of the cover, and the upper side, preferably, of the head is provided with a cam-surface d''. This pivot extends through the socket c^4 in the hub of the clamping-yoke c, and has a washer e, riveted or otherwise secured to its upper end to prevent the pivot from dropping out of the clamping-yoke when the fastener as a whole is removed from the jar. This washer is preferably smaller in diameter than the hole or socket c^4, so that when the cover is clamped in place the pivot may have a limited lengthwise movement in its socket in the yoke.

The swinging locking-lever f is mounted on the pivot d, and it is provided on its under side with a cam-surface that is formed opposite to that on the upper side of the head d' of the pivot d. This lever f is preferably made long enough, so that when it is swung to one side to fasten the cover it will strike one of the arms c' of the clamping-yoke on that side of the clamp and be prevented from turning so far that the shoulders f' and d'' of the corresponding cam-surfaces will swing past each other. By thus limiting the movement of the locking-lever any accidental unlocking of the lever is prevented. The pivot d is angular in cross-section, (square or otherwise,) and fits a corresponding angular socket in the hub of the clamp, so as to prevent the rotation of the pivot that has a free though limited movement lengthwise in the socket, but no rotary play. The head d' of the pivot and the swinging locking-lever f have each two cam-surfaces arranged on opposite sides of the center, one of these being shown in full and the other in dotted outline in Fig. 2 of the drawings.

The hole or socket c^4 through the hub c^3 is provided with a shoulder c^5, upon which is seated the spiral spring g, which, encircling the upper end of the pivot d and thrusting against the under side of the washer e, serves

to hold the pivot normally at the upper limit of its play.

The operation of our improved fastening device is as follows: The lever *f* is thrown to the leftward limit of its play, the hooked ends *c''* of the clamping-yoke *c* are arranged under the shoulder or flange on the neck of the jar, and then as the lever *f* is swung to the right the head *d'* of the pivot *d* enters the socket in the center of the cover *b* and presses the latter down upon the cover of the jar, thus holding it securely in place.

Any desired form of packing may be interposed between the under side of the cover and the top of the jar, as desired.

A peculiar advantage of our invention resides in the degree of lengthwise movement of the pivot produced by a half-rotation of the lever, owing to the fact that the cam-surfaces are formed on the lever as well as on the adjacent supporting part, whether the under side of the hub of the yoke or the upper side of the head. This extra extent of play of the pivot enables a thicker packing-ring to be used and a securer and a tighter joint to be formed in sealing the jar.

We claim as our invention—

1. In a cover-fastener for jars, in combination, the clamping-yoke adapted to fit upon and grasp the end of a jar, the pivot provided with the head having the cam-surface, said pivot passing through said yoke, the locking-lever mounted on the pivot and having a cam-surface in operative contact with the cam-surface on the pivot-head, and the spring seated on the shoulder in the socket in the clamping-yoke and adapted to hold the pivot normally at the upper limit of its play, all substantially as described.

2. In a cover-fastener for jars, in combination, the clamping-yoke having the branching arms with hooked ends adapted to grasp a flange on the outer surface of a jar, a pivot supported in a socket in the clamping-yoke and having a limited sliding movement therein, and the swinging locking-lever mounted on the pivot and having a cam-surface in operative contact with the cam-surface on the adjacent supporting part, whereby a downward movement of the pivot is produced by the swinging movement of the lever, all substantially as described.

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