

(No Model.)

F. HOLDERMAN.
CLOSURE FOR FRUIT JARS.

No. 420,511.

Patented Feb. 4, 1890.

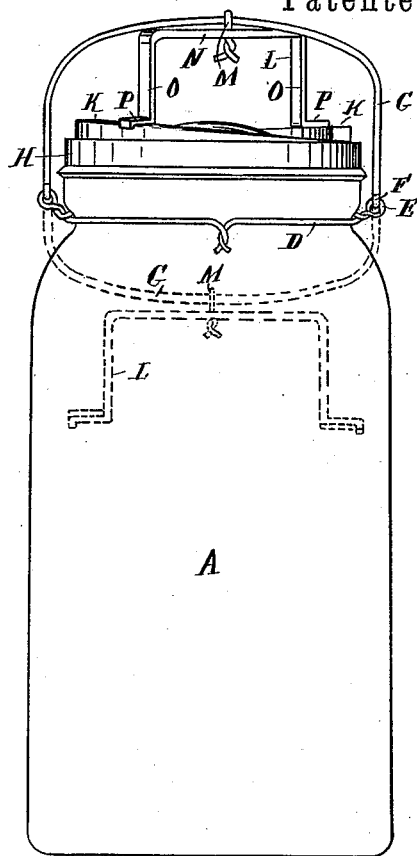


Fig. 1

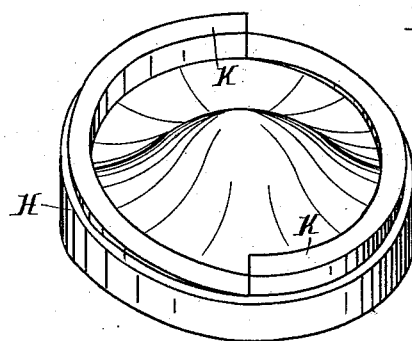


Fig. 2

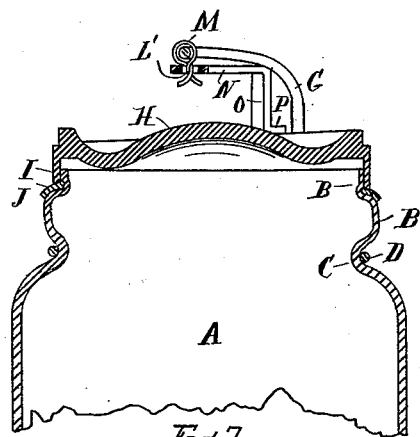


Fig. 3

WITNESSES

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CLOSURE FOR FRUIT-JARS.

SPECIFICATION forming part of Letters Patent No. 420,511, dated February 4, 1890.

Application filed Mar. 1, 1889. Serial No. 309,230. (No model.)

To all whom it may concern:

Be it known that I, FRED HOLDERMAN, a citizen of the United States, and a resident of Bowling Green, in the county of Wood and State of Ohio, have invented certain new and useful Improvements in Closures for Fruit-Jars; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to an improved closure for fruit-jars, and has for its object to provide a cover and clamp whereby the jar can be hermetically sealed by the partial revolution of bearings upon cam-faces upon an overlapping cover, and whereby any desired degree of compression upon the packing interposed between the cover of the jar and the jar-top can be effected without the use of great manual effort.

A further object is to provide a hinged clamp that can be readily moved to one side of the jar or above the cover thereof in position to coact with the same to allow of sealing the jar or removal of the cover.

The invention consists in the parts and combination of parts hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a front elevation of a jar provided with an overlapping cover resting thereon, having cam-faces upon the upper surface thereof upon which rests a revolvably-suspended clamp adapted to be revolved upon the cams and seat the cover closely upon a packing interposed between the jar and the same, and showing in dotted lines the clamp as having been removed from the top and swung to one side of the jar. Fig. 2 is a perspective view of the overlapping jar-cover, showing the cam-faces upon the upper side thereof. Fig. 3 is a longitudinal vertical section of a portion of the jar, showing the edge of the cover overlapping the jar and the interposed packing between the cover and jar.

A designates the vessel to be hermetically sealed, it being understood that my invention

is adaptable to fruit-jars, and is illustrated in connection therewith, but is equally well adapted to bottles or vessels for containing an effervescent liquid—such as beer or soda— or for fire-extinguisher receptacles. 55

B designates the top of the vessel formed with a flaring annular portion B' and a contracted portion C below the same, around which is secured a wire D, formed with hinges E, into which are pivotally engaged the hook-shaped ends F of a swinging bail G, the pivotal arrangement of these parts being diametrically opposite and centrally of the circumference of the vessel to allow the bail to swing to either side of the vessel. 65

H designates a cover for the vessel, having an annular depending flange I to overlap the top of the vessel and designed to rest upon a packing J, interposed between the shoulder formed by the flaring portion B' of the vessel and the edge of the flange. Upon the upper side of cover H are formed two semicircular cam-faces K, for a purpose hereinafter stated. 75

L designates a clamp pivotally suspended from bail G, preferably by means of a hanger M, secured to the bail and passed through a perforation L' and expanded upon the under side of the clamp to hold the same suspended in a manner to turn freely upon the hanger. 80

Clamp L is formed with a horizontal portion N (through which the hanger is passed) and depending arms O, at right angles to the horizontal portion, the lower portion of the arms being bent at right angles at P to rest upon the cam-faces K of the cover H. 85

In operation, the bail G being pivotally secured to wire D and the clamp pivotally secured to the bail, the bail and clamp are swung to one side of the vessel, which is then filled with the substance to be preserved by sealing. Packing J is now placed in position upon the shoulder caused by the enlarged annulus B', and cover H is placed over the top of the vessel, with the depending edge resting upon the packing. Bail G is now raised to extend centrally above the vessel and cause the horizontally-extending ends P of the clamp L to rest upon cam-faces K of the cover, when, upon turning the clamp, the cover is caused to bear as firmly as desired upon the 90 95 100

rubber, thus sealing the vessel hermetically.
It will be seen that the device is inexpensive of construction, positive in operation, and easily manipulated.

5 What I claim is—

1. The combination, with a closure for fruit-jars having semicircular cam-faces on its upper side, of a bail pivoted to the jar, and a clamp pivotally secured to the said bail and adapted to bear upon the cam-faced closure, but independent of the same, substantially as shown.

2. In a closure for fruit-jars, the combination, with the cover having the semicircular cam-faces on its upper side, of the bail pivotally secured to the jar, the binding-clamp

formed of the horizontal member, depending arms at each end thereof, and the laterally-projecting arms at the lower ends of the depending portion, adapted to bear upon the cam-faces, and the hanger whereby the clamp is pivotally secured to the swinging bail, all arranged and adapted to operate substantially as shown and described.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

FRED HOLDERMAN.

Witnesses:

W. R. MOWERY,
WILLIAM WEBSTER.