

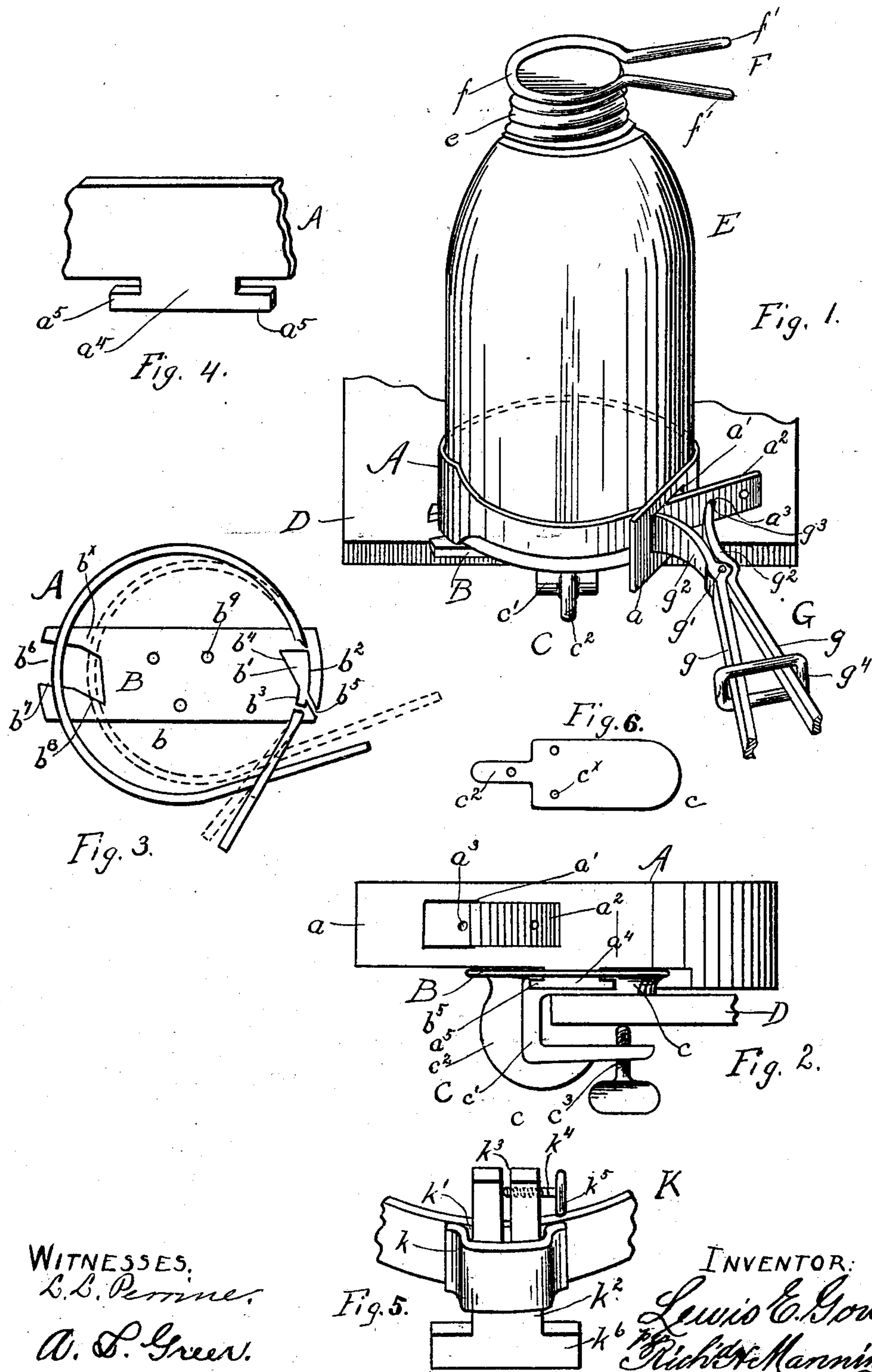
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L. E. GOWER.
FRUIT JAR HOLDER.

(Application filed May 3, 1900.)

(No Model.)



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FRUIT-JAR HOLDER.

SPECIFICATION forming part of Letters Patent No. 671,319, dated April 2, 1901.

Application filed May 3, 1900. Serial No. 15,432. (No model.)

To all whom it may concern:

Be it known that I, LEWIS E. GOWER, a citizen of the United States of America, residing at Independence, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Fruit-Jar Holders; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

The objects of my invention are, first, to keep the jar-clamping band from rotation while the screw-cap is being affixed to the jar; second, to obtain a uniform contraction of the jar-clamping parts of the band upon the sides of the jar; third, to adapt the uniform contraction of the band to jars of various sizes, and, fourth, to afford a band-holder connection for convenient adjustment.

The invention consists in the novel construction and combination of parts, such as will be first fully described, and specifically pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of the novel jar-clamping band and band-holder, shown detachably connected with a leaf of a table and with the jar in position within the clamping-band and the band-contracting implement connected with the free ends of the band. Fig. 2 is a side view of the novel clamping-band and band-holder at right angles to the position taken in Fig. 1 and showing one of the band connections. Fig. 3 is a plan view of the jar-clamping band and band-holder, with a portion of the clamping-band broken away. Fig. 4 is a broken detail view of the jar-clamping band, showing the T connection. Fig. 5 is a broken detail view of the jar-clamping band, showing an alternate construction of the connecting device connecting the band and band-holder. Fig. 6 is a plan view of the upper arm of the bracket with which the band-holder is removably connected.

Similar letters of reference indicate corresponding parts in all the figures.

Referring to the drawings, A represents the jar-clamping band, and B the clamping-band holder.

The jar-clamping band A consists of a plate

of the proper width to grasp the sides of the jar, and which extends in length the requisite distance to extend around the jar and permit the ends to overlap. In one end a of the clamping-band is a longitudinal slot a' . The other end a^2 of the plate or band for a considerable distance is narrow in width and extends through the slot a' . In said end a^2 of the band are perforations a^3 . Upon the lower edges of the plate or band A, at a point upon said band in rear of the free ends a a^2 , are separate downward extensions a^4 a^4 of said band, upon the opposite edge portion of each of which extensions are short horizontal projections a^5 a^5 , which, with the extension a^4 , form T extensions or connections (see Fig. 4) and serve to keep the extensions movably connected to the holder B. As shown in the drawings, one of these T extensions is located about one-third the distance from the free end a of the band and the other extension about two-thirds the distance from said end to the end a^2 of the band, which positions may be changed, but are preferably as shown.

The band-holder B consists of a longitudinal flat strip of metal or other suitable material narrow in width and of suitable length to support the jar-clamping band at the required length of expansion. In one end of the plate or holder B is an opening b' , extending in a transverse direction to the plate, the outer edge b^2 of which opening is curved outwardly in the arc of a circle. The inner edge b^3 of the opening b' , at one end of said opening, is located a short distance from the outer edge b^2 and extends a short distance in a parallel curved plane toward the rear edge of b' of the plate and then is inclined inwardly at an angle to said curved line b^2 , as at b^4 . (See Fig. 3.) Extending through the outer edge of the plate B and communicating with the narrow portion of the opening b' is a slot b^5 to admit one of the extensions a^4 of band A, which slot is in line with the inner edge b^4 of the opening b' . In the other end of the plate or holder B is an opening b^6 , extending in the longitudinal direction and through the end of the said plate. The opening b^6 in width is slightly in excess of the length of the extension a^4 of the band A. The opposite edges b^7 b^7 of the opening b^6

extend at an angle in a slight degree toward the forward edge b of the plate B, about one-half the length of said opening, to a point b^x , at which point the angle of inclination of the sides b^7 is increased and extended toward the outer edge b of said plate, as at b^8 .

C represents the supporting-bracket for the band-holder B, by means of which the holder is secured to the leaf or top D of a table. The bracket C consists of two horizontally-extended arms c , one of which arms extends upon the upper surface of the top D of the table, the other portion beneath the table, and are connected at the outer ends with the vertical portion c' of the bracket. With the outer side of the vertical portion c' of the bracket is connected the end or web c^2 , which also extends beneath the lower arm c . The upper end of the web c^2 extends upwardly to a position in the plane of the upper surface of the upper arm c , and with which arm and web or rib the band-holder B is secured in a transverse position by suitable screws b^9 , which enter the screw-threaded perforation c^x on the bracket. Through the lower arm c extends the bracket-clamping screw c^3 , the inner end of which screw bears against the under side of the top D of the table.

E represents the jar, which is provided with an ordinary screw-cap e , and, as shown in the drawings, the lower end of the jar is placed within the clamping-band A and upon the band-holder B.

F represents the spanner or wrench for securing the cap e upon the jar, which spanner comprises the loop f and arms $f' f'$ of the usual description.

In order to impart tension to the free ends $a a^2$ of the band or plate A and draw the band firmly against the sides of the jar, a hinged implement G is employed, consisting of two levers $g g$, which are hinged together at one end. From the hinged ends of the levers extend the inwardly-curved outwardly-extended arms $g^2 g^2$, the outer end of one of which jaws is narrowed to a point g^3 and extended within one of the perforations a^3 of the free end a^2 of the band A. The outer end of the other jaw is slightly less in width than the slot a' in the free end a of the band A and engages with the outer edge of the said slot. Extending around the arms $g g$ is a link g^4 , which retains the tension imparted to the band A by the levers $g g$.

In operation the bracket C, with the band holder or plate B, is secured firmly to the outer edge of the top D of the table by the clamping-screw c^3 . The jar-clamping band is placed in position above the band-holder B and the downward extension a^4 of said band adjacent to the free end a of said band placed near the slot b^5 in the band-holder B and the inner edge of said extension inserted within said slot and also within the opening b' in said plate and against the inner edge b^4 of said opening, the horizontal portion a^5 of the extension of the

band passing beneath the said plate B. The other extension a^4 is inserted in the opening b^6 in the other end of the band-holder B and the portion a^5 passing beneath the plate and preventing the upward movement of the band, while at the same time the band may be expanded and contracted. The free end a^2 of the jar-clamping band is inserted within the slot a' in the free end a and the jar to be filled placed within the encircling band A. In this position the downward extension a^4 of the band A in the slot b' moves toward the outer edge b^2 of said slot. The proper leverage is applied through the levers $g g$ of the implement G to the free ends $a a^2$ of the jar-clamping band A and the parts of the band contract upon the sides of the jar E with equal degrees of force. The downward extension a^4 , sliding within the slot b^6 , moves to the point b^x in said slot and then adjusts itself in position to meet the reduced size of the circle to that concentric with the sides of the jar, the opening b' also permitting a slight inward movement of the band, thus permitting the equal contraction of the band A from all directions toward the center of the jar without undue strain upon any part of the jar to cause breaking of the jar. The link g^4 being moved to the proper point upon the levers $g g$ while the tension is applied to the free ends of the band A, the jar is held from rotation. The screw-cap e is placed upon the neck of the jar E, with the loop f of the wrench or spanner extending around the cap, the arms $f' f'$ being grasped by the hand and the cap rotated until firmly in position upon the neck to exclude the air.

In order to provide for different thickness of the band-holder which may be employed in renewing the band-holder and to give more freedom of movement of the T connections in the slots $b' b^6$, I make the downward extensions of the clamping-band adjustable, as seen in Fig. 5, in which construction K represents the clamping-band, with the outer side portion of which band is connected a U-shaped plate k , between which and the band K is formed the vertical socket k' , in which socket is the upper end of an extension-plate k^2 ; in which end of the plate is a longitudinal slot k^3 , which separates the plate into two parts a short distance downwardly from its upper end. One of said parts of the plate is provided with an adjusting-screw k^4 , which extends in the direction of the width of said plate and the inner end of the screw caused to bear against the inner edge of the other part of the plate, said plate being provided at its lower end with horizontal extensions k^6 , which are the same as the extensions a^5 in Fig. 3. Upon turning the milled head k^5 the inner end of the screw k^4 forces the separate parts of the plate k^2 apart sufficiently to enable the vertical adjustment of the plate within the slot k' .

I may dispense with the band-holder B, as seen in Figs. 1 and 3, and cut in the top D of the table the slot b^6 and the slot b' , employ-

ing a pattern made direct from the plate B, which will serve to locate the openings b' b'' . In this manner the holder forms an integral part of the top of the table and the band K, as in Fig. 6, is secured to the top D by suitable adjustment of the plate k^2 .

Other modifications may be made within the scope of the invention.

Having fully described my invention, what I now claim as new, and desire to secure by Letters Patent, is—

1. A jar-clamping band and a band-holding plate having suitable openings extending in the longitudinal direction of the said plate and also in a transverse direction thereto and non-rotating extension-plates adjustably connected with the clamping-band and extending downwardly within the openings in the said band-holding plate and means substantially as described for preventing the vertical movement of said non-rotating extension-plates within said openings.

2. A jar-clamping band, and a band-holding plate having suitable openings extending in the longitudinal direction of the plate, and also in a transverse direction thereto, and extensions from the lower edge of said band extending within the said openings in said band-holder, and devices thereon preventing the vertical movement of said extensions within said openings.

3. A jar-clamping band having free ends, and downward extensions from its lower edge, a band-holding plate, having a longitudinal opening, and the sides of said opening inclined toward the forward edge of said plate,

and an opening in a transverse direction thereto, said openings being adapted to receive the downward extensions from said clamping-band, and means for preventing the said extensions from upward movement in said openings.

4. The combination in a fruit-jar holder with a jar-clamping band having free ends and T extensions from the lower edge of said band, a longitudinal band-holding plate having a longitudinal opening extending through the end of said plate, and the sides of said opening inclined at different angles toward the forward edge of the plate, and a separate opening extending in a transverse direction thereto, said openings being adapted to receive the said T extensions upon the clamping-band, said band-holder having a slot communicating with said latter opening, substantially as described.

5. In a fruit-jar holder a jar-clamping band and a bracket, and a longitudinal band-holding plate connected with said bracket, having a longitudinal opening in one end of said plate, and the sides of said opening inclined at different angles toward the forward edge of said plate, and an opening in the other end of the said plate extending in a transverse direction thereto, and vertically-adjustable downward extensions of said clamping-band within the openings in said band-holder substantially as described.

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