

No. 697,724.

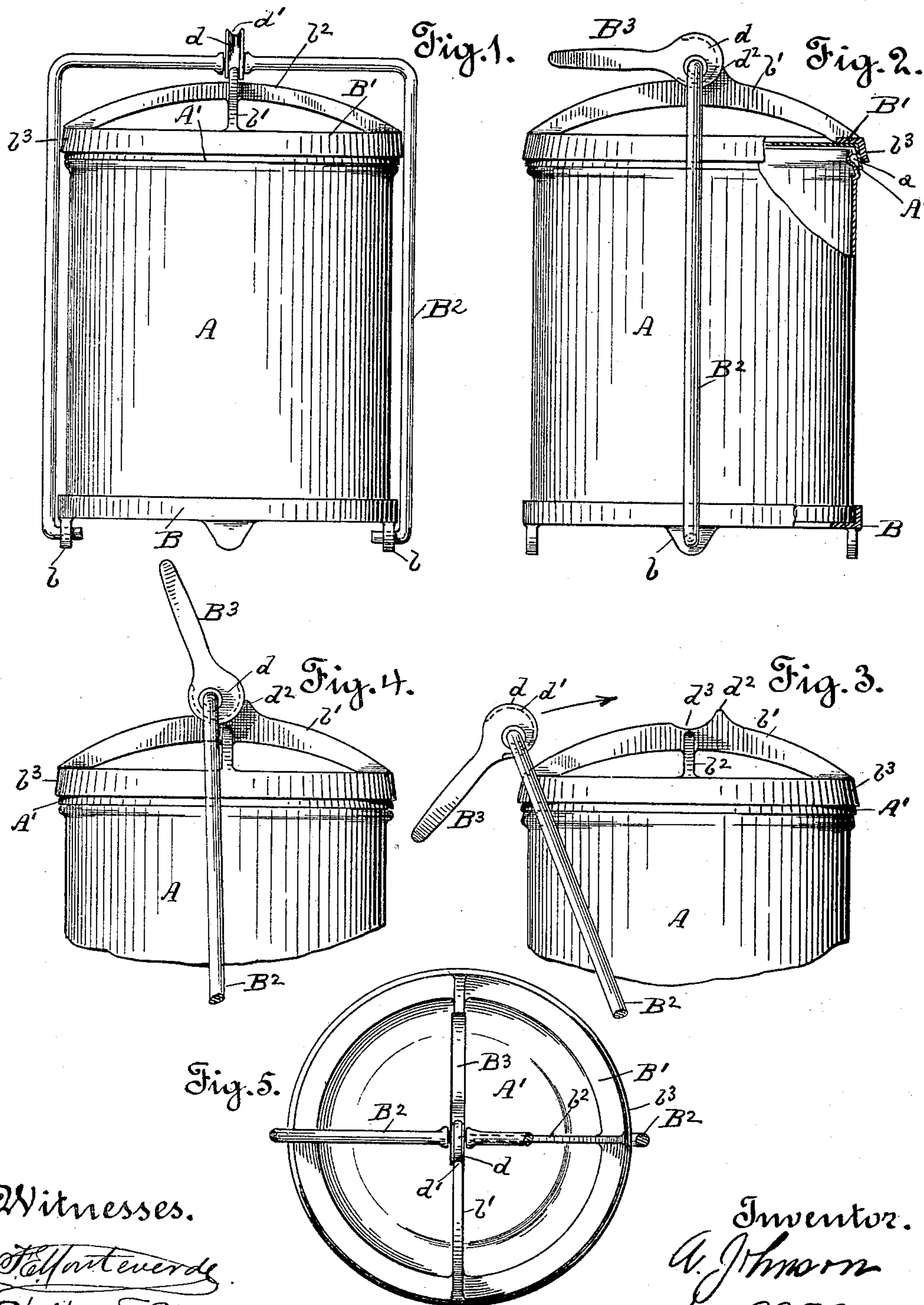
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A. JOHNSON.

TEMPORARY CAP OR COVER HOLDER FOR JARS.

(Application filed Jan. 17, 1901.)

(No Model.)



Witnesses.

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UNITED STATES PATENT OFFICE.

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TEMPORARY CAP OR COVER HOLDER FOR JARS.

SPECIFICATION forming part of Letters Patent No. 697,724, dated April 15, 1902.

Application filed January 17, 1901. Serial No. 43,637. (No model.)

To all whom it may concern:

Be it known that I, AXEL JOHNSON, a citizen of the United States, residing at San Jose, county of Santa Clara, State of California, have invented certain new and useful Improvements in Temporary Cap or Cover Holders for Jars; and I do hereby declare the following to be a full, clear, and exact description of the same.

The present invention relates to an improved device for holding the cap or cover to cans or jars used in connection with the vacuum process of sealing the vessel. In the use of this process it is essential that the head, cap, or cover be held to the can or jar during the cooking process, else the pressure of the air expelled therefrom while the material is being cooked will cause the unsealing of the cap or cover and prevent the same properly seating during the cooling of the contents of the vessel or package.

In order to comprehend the invention, reference should be had to the accompanying sheet of drawings, wherein—

Figure 1 is a front view of the holder with a can therein. Fig. 2 is a side view of the mechanism illustrated in Fig. 1. Fig. 3 is a broken view illustrating the position of said lever just prior to being moved onto the retaining plate or ring. Fig. 4 is a similar view disclosing the position of the lever when turned to hold the cap or cover to its seat and prior to its being turned to force the cap or cover its full downward distance, and Fig. 5 is a top plan view of the mechanism disclosed by Fig. 2 of the drawings.

The letter A is used to indicate a can or jar for use in connection with the vacuum sealing process, A' the cap or cover therefor, and a the packing-ring, introduced between the flange of the cap or cover and rim of the can or jar.

The holder for the can or jar comprises the base-plate or platform B, holding plate or ring B', a swinging bail B², and an eccentric lever B³. The arms of the bail B² are pivoted to the supports b for the base B, and the arch thereof is designed to clear the cap or cover loosely fitted to the can or jar. The holding plate or ring B' is cast, preferably, with the arched intersecting ribs b' b² and a depending circular flange b³. This flange

when the can or jar is within the holder embraces the cap or cover and prevents displacement of the same during the handling thereof. In the base-plate or platform B is formed a circular seat, preferably within which the can is fitted and held against movement. To the arch portion of the bail is secured the lever B³, the head d of which is formed eccentric and provided with a peripheral groove d'. This grooved portion of the head rides upon the face of rib b' as the bail is slipped over the holding plate or ring B' until its movement is stopped by the shoulder d². At this portion of the said rib is formed the seat d³, within which the eccentric head rests and turns as the lever B³ is raised and lowered.

In the operation of the present device the can or jar is first filled with the fruit or material to be cooked and the head loosely applied thereto. The can or jar is then fitted within the circular seat of the base or platform B and the holding plate or ring B' placed upon the cap or cover A', Fig. 3 of the drawings. I then swing the bail B² over the holding-ring until the eccentric head is within the seat d³, when the lever B³ is moved into a vertical position, Fig. 4 of the drawings. This movement or throw of the said lever exerts a pressure upon the ribs of the holding plate or ring and moves the same downward in order to partially force the cap or cover to its seat, although not with sufficient pressure as to make a hermetical seal. The can or jar thus partially sealed is placed within the cooking apparatus and left therein for such time as required. After the contents of the can or jar has been cooked the can or jar is removed from the cooking apparatus, and before being permitted to cool the lever B³ is thrown downward its full distance. This turning of the eccentric head d with its seat d³ forces the holding plate or ring B' toward the base-plate or platform B and the cap or cover A' downward its full distance, so as to firmly seat the same. Ordinarily the vacuum created by the cooling of the can or jar would suffice for this purpose; but at times a failure occurs in this respect. It is to provide against such failures and consequent leaks that the cap or cover is positively forced down to its seat. After the cooling of can or jar the same is removed from the holder by simply

raising the lever and throwing it back. This releases the tension of the bail, when the same may be thrown or slipped clear of the holding ring or plate B' into position illustrated by Fig. 3 of the drawings. The holding ring or plate is then free to be lifted off the can or jar, when the said can or jar is lifted from the base or platform.

Having thus described the invention, what I claim as new, and desire to secure protection in by Letters Patent, is—

1. A device of the character described comprising a holder, a bail secured thereto, a ring having intersecting ribs b' , b^2 , and means carried by the bail adapted to exert pressure upon said ribs and through the ribs to the ring, substantially as described.

2. A device of the character described comprising a holder, a bail secured thereto, a ring, a rib b' on said ring and having a seat intermediate of its ends, and a cam carried by the bail adapted to engage said seat to exert pressure upon said rib and through the rib to the ring, substantially as described.

3. A device of the character described comprising a holder, a bail pivotally secured thereto, a ring, a rib b' on said ring, means carried by the bail adapted to engage said rib

to exert pressure upon said rib and through the rib to the ring, and a shoulder d^2 on the rib adapted to limit the movement of the bail in one direction, substantially as described.

4. In combination with a receptacle, a cover therefor having an annular depending tapered flange, and means for forcing the cover to its seat comprising a correspondingly-tapered ring adapted to overlie the flange of the cover, and a pressure device including a pivoted bail operatively associated with said ring for the purpose set forth.

5. In combination with a receptacle, a cover therefor, and means for forcing the cover to its seat, and comprising a holder, a pressure-exerting device operatively associated with the holder and including a pivoted bail, and an unattached holding-ring adapted to be inserted beneath the pressure device and over the cover; substantially as described.

In witness whereof I have hereunto set my hand.

AXEL JOHNSON.

Witnesses:

WALTER F. VANE,
D. B. RICHARDS.