(No Model.)

G. C. SAWYER.

FRUIT JAR.

No. 386,560. Patented July 24, 1888.

Fig. 1.

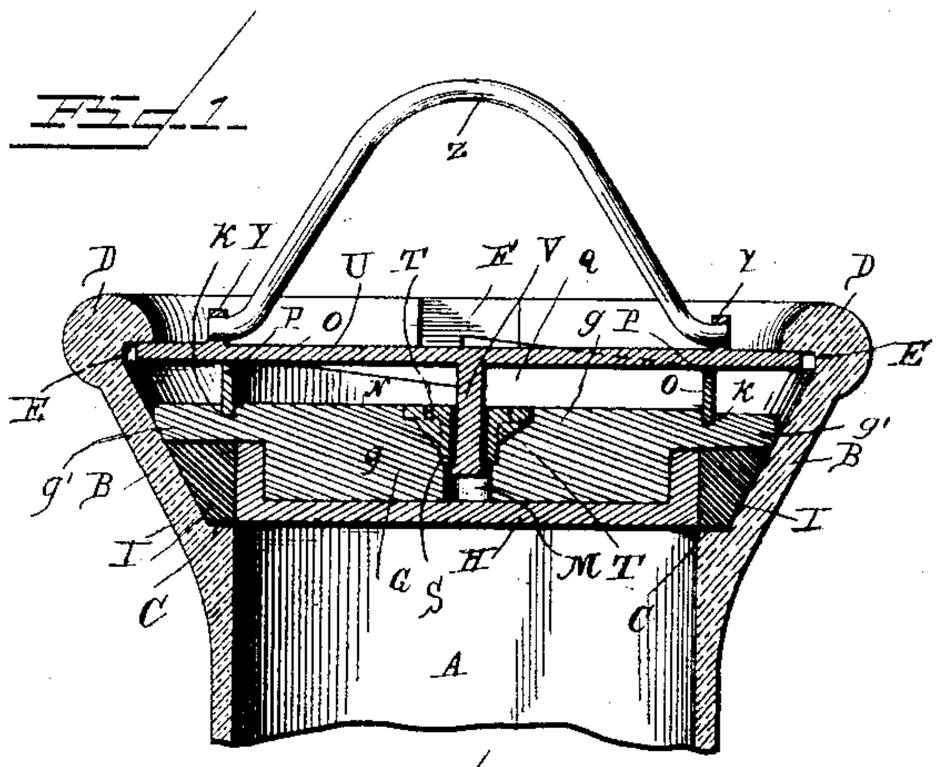


Fig. 2.

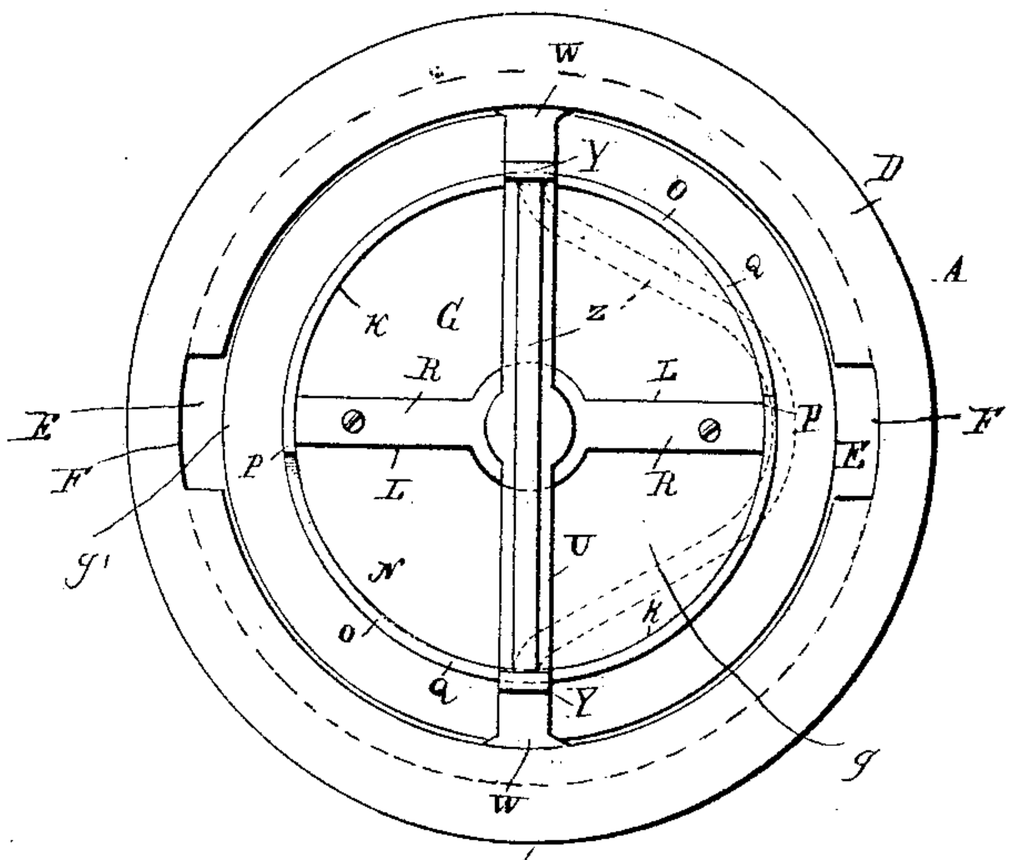
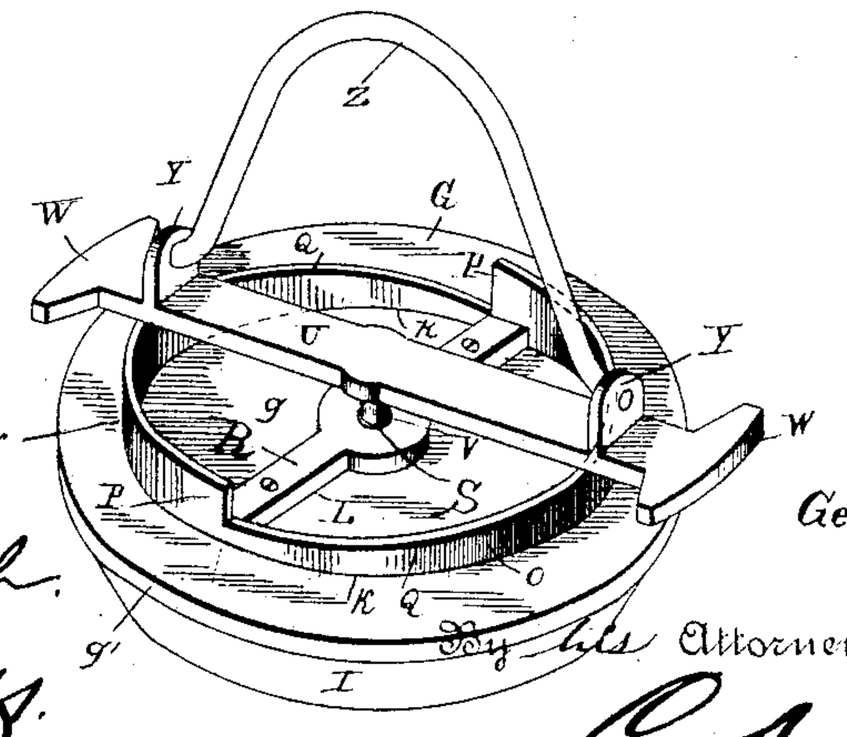


Fig. 3.



Witnesses.
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E. G. Siggers.

Inventor,
George C. Sawyer,
by his Attorneys
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UNITED STATES PATENT OFFICE.

GEORGE C. SAWYER, OF CANTON, NEW YORK.

FRUIT-JAR.

SPECIFICATION forming part of Letters Patent No. 386,560, dated July 24, 1888.

Application filed February 21, 1888. Serial No. 264,730. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. SAWYER, a citizen of the United States, residing at Canton, in the county of St. Lawrence and State of New York, have invented a new and useful Improvement in Fruit-Jars, of which the following is a specification.

My invention relates to improvements in fruit-jars; and it consists in a certain novel construction and arrangement of parts for service, fully set forth hereinafter in connection with the accompanying drawings, wherein—

Figure 1 is a central vertical sectional view of a jar having a cover secured therein by my improved device. Fig. 2 is a top plan view of the same. Fig. 3 is a detail perspective view of the cover detached from the jar.

Referring by letter to the drawings, A represents the jar having the outwardly-flared neck B, having an interior annular shoulder, C, at its lower end. A rounded bead, D, is formed on the upper edge of the neck which overhangs and forms an inward extending lip or shoulder, E, having notches or recesses F F therein at diametrically-opposite points. The portion of the flared neck between the shoulder C and the lip or shoulder E forms a groove, the purpose of which will be hereinafter explained.

G represents the cover or stopper of the jar, the body *g* of which is preferably of wood and is provided with the horizontal peripheral flange *g'*. A glass or porcelain cap, H, is fitted on the bottom of the cover. If preferred the cover may be composed entirely of glass or porcelain. An annular elastic cushion, I, is fitted around the cover below the flange *g'*, and when the cover is in place the said cushion bears on the shoulder C, as shown in the drawings. An annular groove, K, and a communicating transverse groove, L, are formed in the upper side of the cover, and at the center of the transverse groove is formed a recess or depression, M.

N represents a fastener having the ring or flange O provided with the shoulders P P and the intervening inclines Q Q, and the transverse bar R, having a socket, S, at its center. The ring or flange O bears in the annular groove in the cover, the transverse bar R fits in the transverse groove L, and the socket S fits in the recess or depression M. The socket is provided on opposite sides with lateral wings or webs T T, which engage in notches in the sides of the recess or depression, and thus more firmly secure the fastener to the cover. Cement is used to hold the fastener in the grooves in the cover.

U represents a revoluble locking-arm which is provided at its center with the depending spindle V, which is mounted in the socket S and is capable of limited vertical movement. The ends of the locking-arm are provided with the T-heads W W, which are adapted to pass through the notches F F in the lip or shoulder E and engage under the said lip or shoulder. The upper side of the locking-arm is provided with the apertured ears Y Y, in which are mounted the ends of the wire bail or handle Z, which enables the locking-arm to be readily turned. By having this bail Z pivotally mounted on the upper side of the locking-bar it can be turned down on the cover, as indicated in dotted lines in Fig. 2, thus lying entirely within the outline of the jar and economizing space in the packing, besides rendering it impossible for the bail to catch against any articles to cause the loosening of the cover-fastener.

The operation of the device will now be apparent. The cover is placed within the mouth of the jar and the locking-arm is turned so as to engage under the lip or shoulder E and slide up on the inclines Q Q on the ring or flange O. As will be seen, this action forces the cover down, compresses the packing-cushion against the shoulder C, and spreads it against the sides of the neck. Thus an air-tight joint is formed between the cover and the jar. It will be seen that the ring or flange having the inclines thereon is in effect a cam, and if preferred it may be formed integral with the cover when the latter is formed of glass or porcelain. It will be seen that there is no strain upon the said ring or flange except a downward pressure. The spindle merely guides the motion of the locking-arm and holds its center down while its ends bear upward upon the lip or shoulder E. The rounded bead at the upper edge of the neck enables the lip or

shoulder E to bear the strain put upon it by the said locking-arm.

The elastic cushion herein described may be of rubber, cork, or any other similar material, and when the cover is made of glass or porcelain the cap on the bottom thereof may be omitted or formed integral therewith.

Having thus described my invention, I claim—

1. The jar having a rounded peripheral bead, D, at its mouth and the interior overhanging lip or shoulder below the bead and provided with slots F, in combination with the cover arranged in the mouth of the jar and provided on its upper side with the swiveled locking-arm adapted to engage at its extremities under the said overhanging lip or shoulder, and the bail Z, mounted at its ends in suitable apertured ears on the upper side of the locking-arm and adapted to normally fold within and be protected by the bead D, substantially as and for the purpose specified.

2. The combination, with the jar having the lip or shoulder E, of the cover having the grooves K L and the recess M in its upper side, the fastener having the ring or flange O, fitting in the groove K, the transverse bar R, fitting in the groove L, and the socket S, fitting in the recess M, and having the webs or wings T T, and the locking-arm having a central spindle mounted in the socket S and adapted to engage at its ends under the lip or shoulder E, substantially as and for the purpose specified.

3. The jar having an interior overhanging lip or shoulder at its upper edge provided with slots F, in combination with the cover arranged in the mouth of the jar and provided with a double inclined ring or flange, O, the socket S, arranged in an aperture, M, at the center of the cover within the ring or flange O, and provided with wings or webs T, and the locking-arm bearing on the ring or flange and engaging under the overhanging lip or shoulder, and provided at its center with a depending spindle, V, mounted in the socket S and capable of a vertical motion, whereby the locking arm moves vertically as it slides on the inclined ring or flange, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE C. SAWYER.

Witnessss:

LAWRENCE C. SAWYER,

WILLIAM H. S. RUTHERFORD.