(No Model.)

J. W. KENNEDY & B. L. HARRIS.

BUTTER JAR.

No. 449,326. Patented Mar. 31, 1891.

Fig. 1.

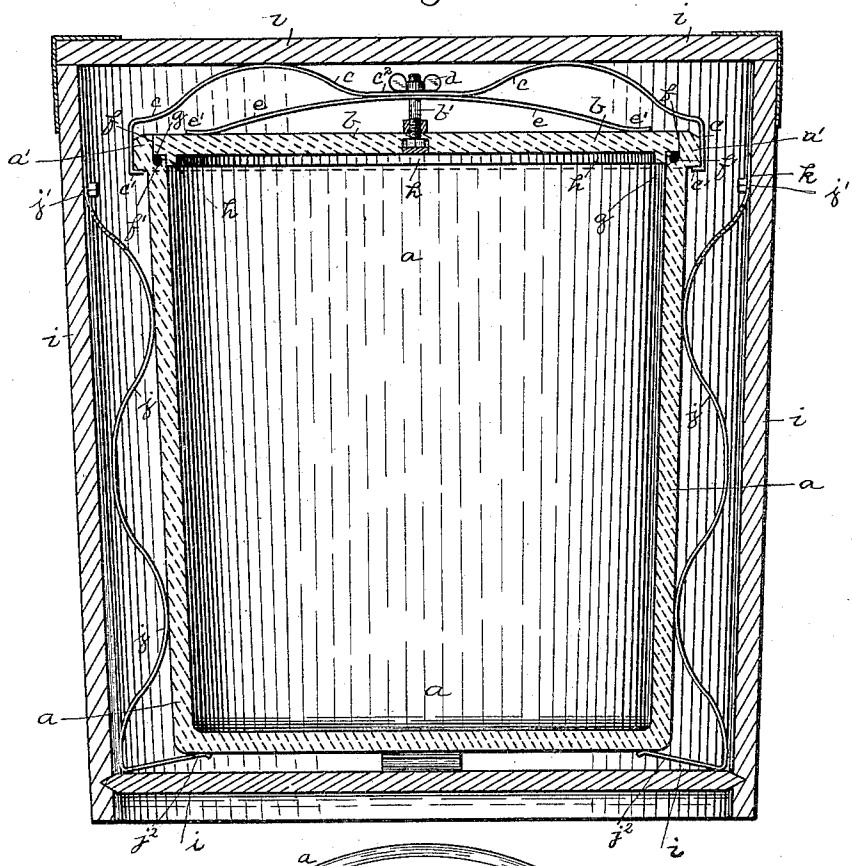
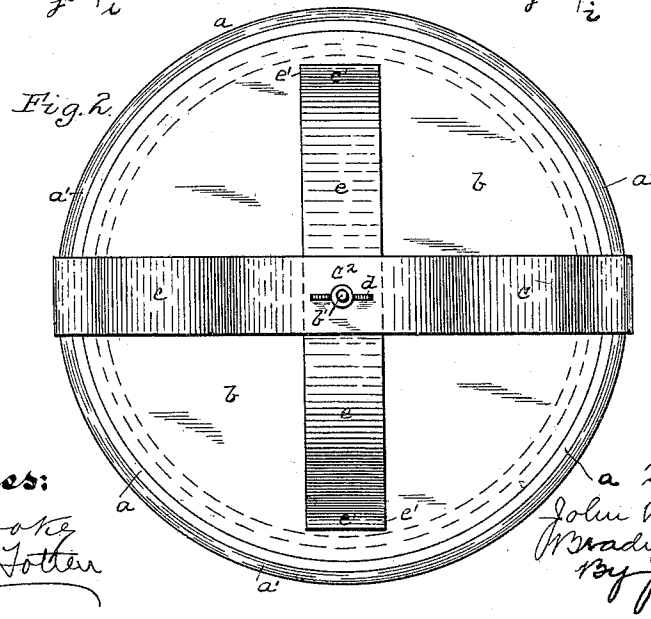


Fig. 2.



Witnesses:
J. N. Cooke
Robt. D. Totten

Inventors.
John W. Kennedy
Bradner L. Harris
By James D. Shay
Attorney

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UNITED STATES PATENT OFFICE.

JOHN W. KENNEDY, OF DES MOINES, IOWA, AND BRADNER L. HARRIS, OF PITTSBURG, PENNSYLVANIA, ASSIGNORS, BY DIRECT AND MESNE ASSIGNMENTS, TO JOHN W. KENNEDY, TRUSTEE.

BUTTER-JAR.

SPECIFICATION forming part of Letters Patent No. 449,326, dated March 31, 1891.

Application filed December 23, 1890. Serial No. 375,599. (No model.)

To all whom it may concern:

Be it known that we, JOHN W. KENNEDY and BRADNER L. HARRIS, residents of Des Moines, in the county of Polk and State of Iowa, and of Pittsburg, county of Allegheny, State of Pennsylvania, respectively, have invented a new and useful Improvement in Jars or Pails; and we do hereby declare the following to be a full, clear, and exact description thereof.

Our invention relates to casks or pails for containing butter, preserves, sirups, &c., during transportation and while packed in the warehouse, its object being to provide a pail which is practically air-tight and one in which the liability of breakage during handling and transportation is largely overcome.

To these ends our invention consists, generally stated, in a jar of glass, porcelain, or other suitable material, the lid whereof is confined by a clamping-band secured thereto and engaging with the upper edge of said jar, and an auxiliary spring interposed between said clamping-band and the upper surface of said lid, said auxiliary spring being arranged to be swung around with its ends at any angle to the clamping-band.

To enable others skilled in the art to make and use our invention, we will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a vertical section of our improved jar within the outer casing or jacket. Fig. 2 is a plan view of the jar with the lid secured thereto, the auxiliary spring being shown at right angles to the clamping-band.

Like letters indicate like parts.

The jar *a* is constructed of glass, porcelain, or other suitable material, which will have no chemical effect to decompose or otherwise have any deleterious effects on the substance which it contains. This jar *a* is formed with the annular flange *a'* around the upper edge thereof; or, if desired, a suitable number of lugs may be formed around the upper edge of the said pail at opposite points thereon. The lid *b* has secured at or about the center thereof the bolt *b'*, and engaging with said bolt is the clamping-band *c*, said clamping-band being formed with the inwardly-extending flanges *c'* thereon, which act as catches to engage with the annular flange *a'* surrounding the upper edge of the jar, thus holding said lid in position upon the jar. The clamping-band *c*, as stated, engages with the bolt *b'*, said bolt passing through an opening in said clamping-band and allowing a certain amount of play and movement of said band upon said bolt, a thumb-nut *d* holding said spring in engagement with said bolt.

Interposed between the clamping-band *c* and the upper face of the lid *d* is the auxiliary spring *e*, the curved portion of said auxiliary spring *e* engaging with the central portion c^2 of the clamping-band *c*, and the ends *e'* of said auxiliary spring *e* pressing upon the upper surface of the lid *b* near the circumference thereof. From this manner of construction it will be apparent that the auxiliary spring *e* may be turned upon the bolt *b'*, so as to rest with its ends *e'* at any angle with relation to the clamping-band *c*—as, for instance, at right angles, as shown in Fig. 2 of the drawings.

The jar *a* is formed with the annular seat or recess *f* around the upper edge or mouth of said jar, and within said annular seat or recess is the rounded groove S', within which is secured the gasket *g*, said gasket being formed of some substance which will have no tendency to in any way affect the purity of the substance contained within the pail. The lid *b* rests upon this gasket *g* within the annular recess *f*, said lid having the flange *h* depending below the gasket *g*, thereby forming, in connection with the clamping-band and the axiliary spring *c* and *e*, a very tight connection between said lid and the pail, and one that is practically air-tight.

The outer casing or jacket *i* is constructed of wood or any other suitable material, and within this the jar *a* is placed during transportation or for storage. Springs *j* are interposed between the sides and bottom of the jar *a* and the corresponding sides and bottom of the outer casing or jacket *i*, these springs *j* being secured to the inner walls of the casing *i*, being secured thereto by the bolts or pins *j'* passing through slots *k* in said springs, to allow for a certain amount of

movement on the part of said springs during the insertion and withdrawal of the jar from said casing. The lower ends of said springs *j* are bent up to form the bottom supports j^2 for the jar, as shown in Fig. 1. When the jar is inserted within the casing, it is apparent that it is held securely on all sides and on its end, the clamping-band *c* serving to provide for its retention at the upper end of the jacket *i*. By this arrangement of the springs the casing may be inverted, as is often the case during transportation, without affecting the position of the jar therein, while at the same time the clamping-band *c* serves as a handle for lifting the jar.

Another special advantage lies in the fact that as the jar is usually made of some frangible material, when the lid has been removed and deposited on any support the spring-bands act as a cushion and prevent liability of the breakage of the lid in handling.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. A jar or pail having a clamping-band engaging with the upper edge of said jar on opposite sides thereof, said clamping-band being secured to the lid of said jar, and an auxiliary spring interposed between said clamping band and the upper face of said lid, said auxiliary spring being adapted to be turned at any angle with relation to said clamping-band, substantially as and for the purposes set forth.

2. A jar having a clamping-band engaging with the upper edge of said jar at opposite sides thereof, a bolt secured to the lid of said jar and engaging with the said clamping-band, and an auxiliary spring engaging with said bolt and interposed between said clamping-band and the upper face of the lid, substantially as and for the purposes set forth.

3. A jar having a clamping-band engaging with an annular flange on the upper edge of said jar, a bolt secured to the lid of said jar and engaging with said clamping-band, an auxiliary spring engaging with said bolt, said auxiliary spring being interposed between the primary clamping-band and the upper face of the lid, and a thumb-nut upon said bolt for regulating the tension of said spring-bands, substantially as and for the purposes set forth.

4. A jar having a clamping-band engaging with an annular flange formed around the upper edge of said jar, a bolt secured to the lid of said jar, said bolt engaging with the said clamping-band, an auxiliary spring interposed between said clamping-band and the upper face of the lid, an annular seat or recess formed around the mouth of said jar, and a gasket fitting in said recess, substantially as and for the purposes set forth.

5. A jar having a clamping-band engaging with an annular flange formed around the upper edge of said jar, a bolt secured to the lid of said jar, said bolt passing through said clamping-band and through an auxiliary spring interposed between said clamping-band and the lid, an annular seat or recess formed around the mouth of said jar, a gasket fitting therein, and a depending flange on said lid and extending below the gasket, substantially as and for the purposes set forth.

6. A jar having a clamping-band engaging with an annular flange formed around the upper edge of said jar, a bolt secured to the lid of said jar, said bolt passing through said clamping-band and through an auxiliary spring interposed between said clamping-band and the lid, an annular seat or recess formed around the mouth of said jar, said annular seat or recess having a rounded groove therein and a rounded gasket fitting in said groove, and a depending flange on said lid and extending below said gasket, substantially as and for the purposes set forth.

In testimony whereof we, the said JOHN W. KENNEDY and BRADNER L. HARRIS, have hereunto set our hands.

JOHN W. KENNEDY.
BRADNER L. HARRIS.

Witnesses:
ROBT. D. TOTTEN,
J. N. COOKE.