(No Model.)

L. A. KLINE.

COVER FOR PRESERVE CANS AND JARS.

No. 307,555. Patented Nov. 4, 1884.

Fig. 1.

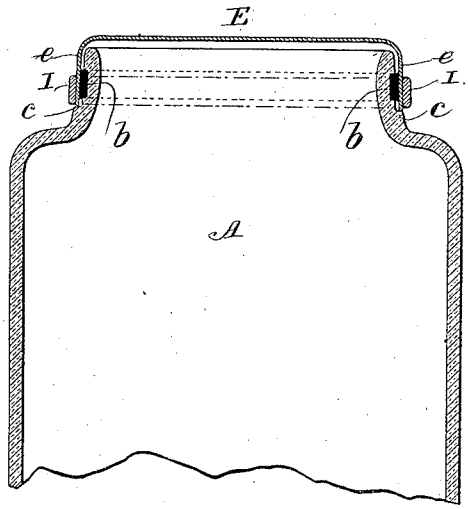


Fig. 2.

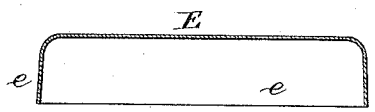
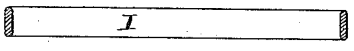


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

LEWIS A. KLINE, OF NORTH PLAINFIELD, NEW JERSEY.

COVER FOR PRESERVE CANS AND JARS.

SPECIFICATION forming part of Letters Patent No. 307,555, dated November 4, 1884.

Application filed April 25, 1884. (No model.)

To all whom it may concern:

Be it known that I, LEWIS A. KLINE, of North Plainfield, in the county of Somerset and State of New Jersey, have invented an Improvement in Covers for Preserve Cans and Jars, of which the following is a specification.

Rubber bands have been used for the cover to rest upon, and in some instances the cover has been of sheet metal, with a slight taper in the flange or rim.

My invention relates to the combination, with the can or jar having an elastic band in a recess around the neck, of a cover of sheet metal having a tapering flange or rim, and a band of metal around such flange for confining the same firmly to the ring of india-rubber or other elastic material. In covers made of sheet metal the flange is more or less elastic; hence it cannot be depended upon for making a perfectly tight joint with the india-rubber. By the addition of a rigid metal band around the outside of the tapering rim the cover is made perfectly tight, and risk of the cover yielding or moving by the action of the atmospheric pressure or changes in temperature are avoided.

In the drawings, Figure 1 shows the upper part of the jar or can with the cover complete. Fig. 2 is a separate view of the cover, and Fig. 3 is a separate view of the band.

The can or jar A is of any suitable size, character, or material. There is a groove around the outer portion of the top or neck of the can for the reception of the band *b*, of india-rubber or other suitable material, and in some cases a shoulder or offset is provided at *c* for the lower edge of the cover E to rest upon, or the under side of the cover may rest upon the upper end or mouth of the jar.

The cover E is made of sheet metal, and it has a rim or flange, *e*, that is tapering, so as to set tightly over and compress the rubber band *b* as such cover is forced down to its place. There may be a layer or lining of glass, porcelain, cork, or other material in the form of a disk between the mouth of the can or jar and the inner surface of such cover.

The band I is preferably of malleable cast-iron. It is to be made true and circular on the inner surface and pressed down firmly over the outside tapering surface of the rim *e*, so as to confine such rim firmly against the elastic ring *b*, and thereby insure a perfectly tight joint. This band may be made of a wire coil, the convolutions being soldered together.

In opening the can it is preferable to pry off the ring *b* by a lever-key having a forked end or by a pair of pinchers, and then a knife or other thin instrument can be inserted between the rim and the rubber to separate the parts and admit air, and then the cover can be lifted off. No injury is liable to occur to the cover or the india-rubber in either opening or closing the same, especially as the rim of the sheet-metal cover possesses considerable elasticity.

I claim as my invention—

The combination, with the can or jar and the elastic band surrounding the same, of the sheet-metal cover having a tapering rim and a rigid band around such tapering rim, substantially as set forth.

Signed by me this 17th day of April, A. D. 1884.

LEWIS A. KLINE.

Witnesses:

GEORGE P. SUYDAM,

T. S. ARMSTRONG.