C. C. LANE.

Can for Hermetically-Sealed Goods.

No. 221,468. Patented Nov. 11, 1879.

FIG. 1.

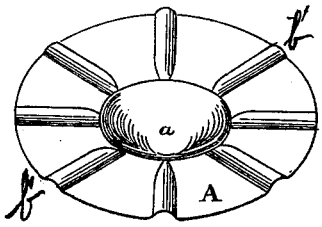
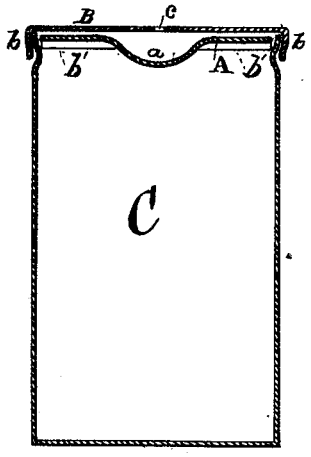


FIG. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES C. LANE, OF NEW WESTMINSTER, BRITISH COLUMBIA.

IMPROVEMENT IN CANS FOR HERMETICALLY-SEALED GOODS.

Specification forming part of Letters Patent No. **221,468**, dated November 11, 1879; application filed April 11, 1879.

To all whom it may concern:

Be it known that I, CHARLES C. LANE, of New Westminster, British Columbia, have invented an Improvement in Cans for Hermetically-Sealed Goods; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to an improvement in cans for hermetically-sealed goods; and my improvements consist in a construction of the cover by which any confined air may pass out during the process of soldering the cover on the can without danger of leaving an open space in the soldered portion.

This invention is more especially valuable where the cans are to be soldered in what is known as the "mechanical bath."

Figure 1 is a view of my supplemental cover. Fig. 2 shows the section of a can with its application.

In the ordinary process of sealing the cans after their contents have been put in, the flange or rim of the cover is crimped against the side of the can, and the can then rolled through the mechanical soldering-bath. This is simply a bath of melted solder, and by passing the can through it the top or cover and sides of the can are joined by the solder. Difficulty is, however, experienced in sealing the whole rim, as, while the can is being rolled, air which is displaced or expanded inside is apt to come through the space around the rim of the cover, thus forming blow-holes, and that place where the air comes through will not be soldered, but will remain open. All cans which have this occur to them have their contents spoiled, not being hermetically sealed.

The object of my invention is to overcome this obstacle to perfect sealing.

To do this I form a supplemental inner cover, A, which is corrugated or crimped radially, and has a depression, *a*, at its center, into which the corrugations or grooves lead. This supplemental inner cover is laid into the can C after filling, or, if desired, it may be attached to the outer cover, B, which has its rim *b* crimped on the can in the usual way, and in the center is formed a small hole, *c*. This small hole is made immediately over the depression *a* in the supplemental cover, and, as the grooves or corrugations *b*, all center at this depression, any air which may be in the can during the process of soldering, instead of escaping through the rim, will be directed toward the center and escape through the hole. The rim is accordingly always thoroughly soldered, there being no air to blow through the soft solder. As soon as the can is removed from the bath, a small piece of solder is put over the hole *c* in the cover, and the can is thus hermetically sealed.

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

The supplemental cover A, having a central depression, *a*, and radial grooves *b' b'*, in combination with the can C and perforated cover B, as set forth.

In witness whereof I have hereunto set my hand.

CHARLES C. LANE.

Witnesses:

GEO. H. STRONG,

FRANK A. BROOKS.