

(No Model.)

B. T. BABBITT.

METHOD OF PUTTING UP CAUSTIC ALKALI.

No. 256,095.

Patented Apr. 4, 1882.

Fig 1.

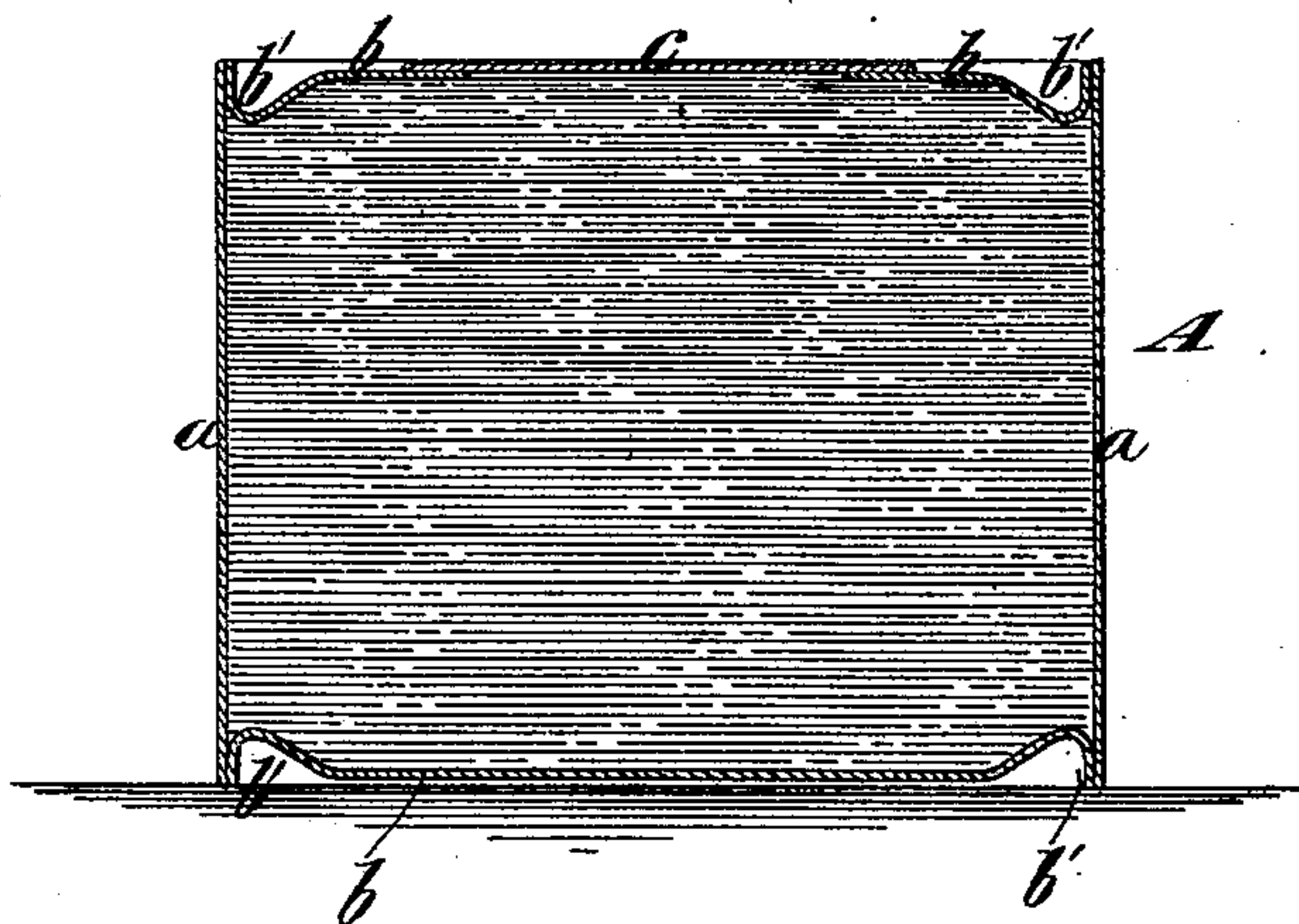


Fig 2.

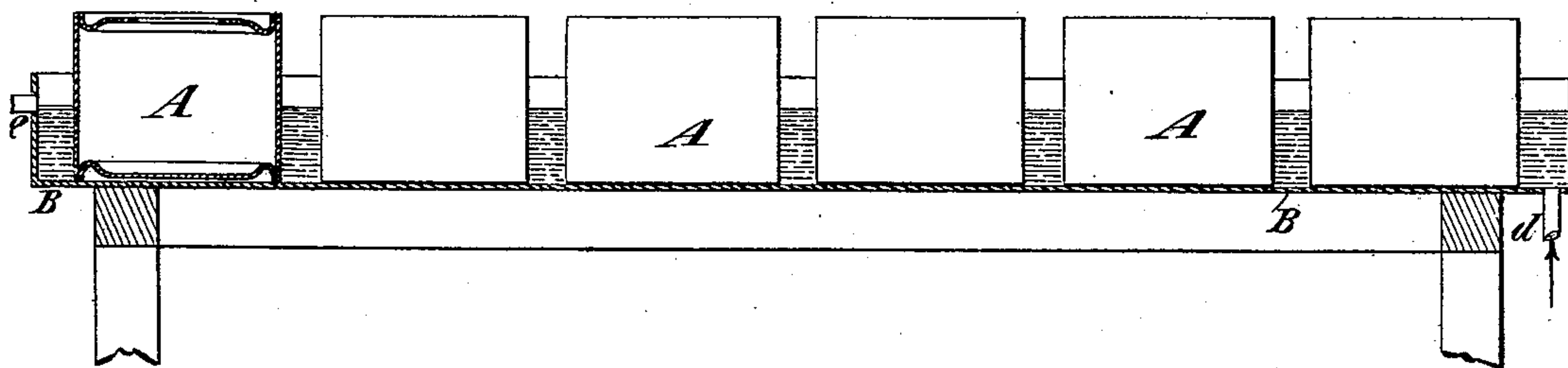
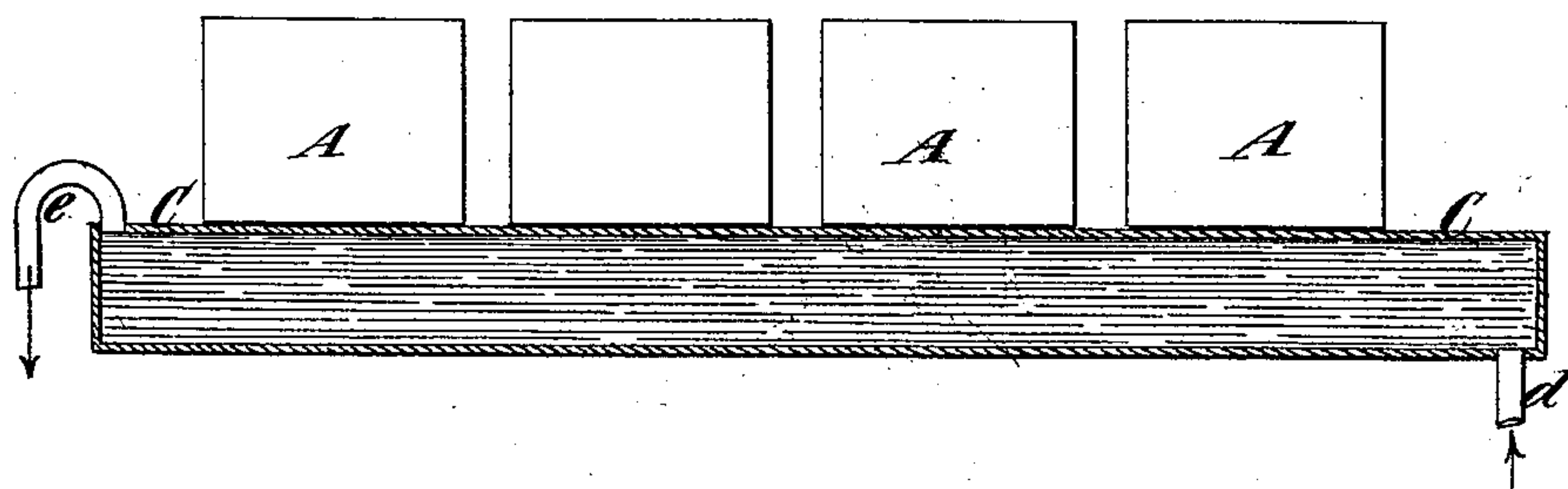


Fig 3.



Witnesses
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METHOD OF PUTTING UP CAUSTIC ALKALI.

SPECIFICATION forming part of Letters Patent No. 256,095, dated April 4, 1882.

Application filed January 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN T. BABBITT, of the city of New York, in the county and State of New York, have invented a certain new and useful Improvement in the Method of Putting Up Caustic Alkali, of which the following is a specification.

My invention relates to the method of putting up caustic alkali in sheet-metal cans or canisters.

A simple and comparatively cheap can is composed of a cylindric body having flanged heads simply inserted into and soldered in the ends without an overlapped seam; but when the molten caustic alkali is run into cans its temperature is high enough to melt solder, and if run into a can of the kind above described the solder would not only be melted, but the molten alkali in the can would force out the solder from the joint between the lower head and the can-body and the cans would not be air-tight.

The object of my invention is to enable cans of the kind above described to be used for caustic alkali without danger of driving out the solder from the bottom joint while the cans are being filled; and to this end the invention consists in subjecting the cans during the operation of filling them to artificial cooling, which may be accomplished by placing the cans upon or in a vessel or vat containing a cooling agent, as hereinafter described.

In the accompanying drawings, Figure 1 represents a central vertical section of a can which I may use for the purpose of my invention. Fig. 2 represents a longitudinal section of a cooling vat or vessel containing such cans, one of the cans being shown in section; and Fig. 3 represents a similar section of a cooling vat or vessel and cans placed upon the top thereof.

Similar letters of reference indicate corresponding parts in all the figures.

A designates the cans which I may use, and which are composed of a straight cylindric body, *a*, and heads *b*, having an upturned flange, *b'*, at the circumference, and inserted or slipped into the body with the flange outermost. In one of the heads, which is the upper one when the can is being filled, is a hole or opening for filling, which is afterward closed by a metal cap, *c*.

The longitudinal seam in the body *a* may be a folded seam formed without solder; but the two heads *b* are soldered in the body.

Referring now to Fig. 2, B designates a vat or vessel of a length to receive a number of the cans A, and provided at one end with an inlet-pipe, *d*, for water or other cooling agent, and at the other end with an outlet-pipe, *e*, therefor. Water may be constantly circulated through the vat or vessel B around the cans, and while empty the cans are placed therein.

The molten alkali is then run or poured into the cans, and its heat cannot melt the solder in the lower joint because of the contact of water with the exterior of the body and the lower head. After the contents of the cans are set or hardened they are removed and closed by soldering on the caps *c*.

The solder in the joint between the upper head and body may be melted; but this is immaterial, for the molten alkali cannot drive out the solder, as it would by its weight from the lower joint if that were melted, and as soon as the contents of the can becomes sufficiently cooled the solder in the upper joint will again set and the joint will be tight.

In lieu of the cans being placed in a cooling vat or vessel, it may be sufficient to place them upon the top of a closed vat or vessel, C, as shown in Fig. 3, the vat or vessel being provided with inlet and outlet pipes *d e*, which provide for maintaining a circulation of water through it.

My invention might be employed where cans of a different construction from that herein shown and described are used.

What I claim as my invention, and desire to secure by Letters Patent, is—

The improvement in the method of putting up caustic alkali in cans or canisters, consisting in subjecting the cans or canisters to artificial cooling during the operation of filling them by pouring in the alkali in a molten state, substantially as and for the purpose herein described.

B. T. BABBITT.

Witnesses:

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