

(No Model.)

C. A. STOCKSTROM & R. CURRAN.

TRAP FOR ICE BOXES, &c.

No. 557,449.

Patented Mar. 31, 1896.

Fig. 1.

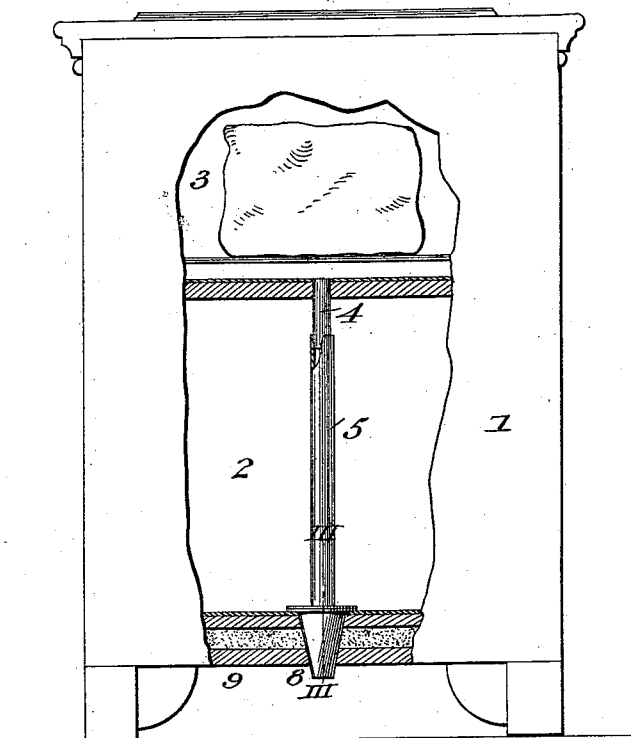
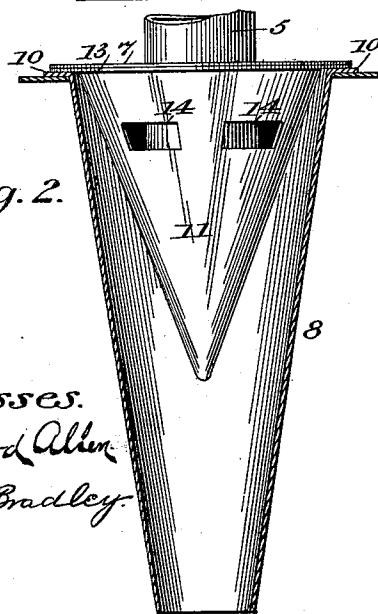


Fig. 2.

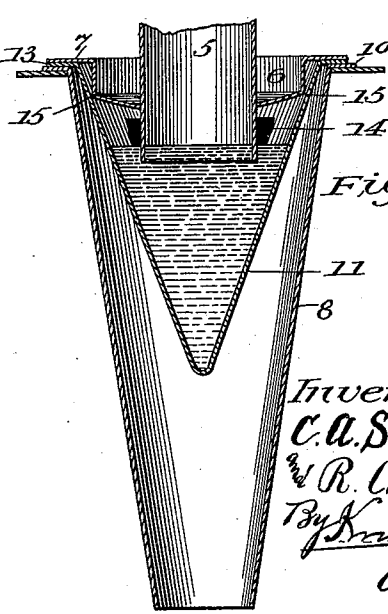


Witnesses.

W. Ellwood Allen

Herbert Bradley

Fig. 3.



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UNITED STATES PATENT OFFICE.

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TRAP FOR ICE-BOXES, &c.

SPECIFICATION forming part of Letters Patent No. 557,449, dated March 31, 1896.

Application filed May 20, 1895. Serial No. 550,012. (No model.)

To all whom it may concern:

Be it known that we, CHARLES A. STOCKSTROM and RICHARD CURRAN, citizens of the United States, and residents of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Traps for Ice-Boxes, Refrigerators, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Our invention relates to an improved form of trap, forming a water seal to exclude air from the interior of the box, and the prime object of our invention is to make such a device that can be easily and readily cleaned, as well as being cheap and effective.

Our invention consists in features of novelty hereinafter fully described, and pointed out in the claim.

Figure I is a back or rear view of a refrigerator with part broken away and part in section and illustrating our invention in elevation. Fig. II is an enlarged view, part in vertical section and part in elevation. Fig. III is a vertical section on line III III, Fig. I.

Referring to the drawings, 1 represents an ice-box or refrigerator having, as usual, a provision-chamber 2, and an ice-chamber 3 located above the provision-chamber. Secured in the floor of the ice-chamber is a short pendent section of pipe 4, that fits within the upper end of a pipe 5 adjacent to the floor of the ice-chamber, as shown in Fig. I. The pipes 4 and 5 constitute a drain-pipe for the ice-water. Above the lower end of the pipe 5 and secured rigidly thereto is a cup-shaped flange 6, having a marginal horizontal rim 7.

8 represents a discharge tube or section of pipe formed preferably in the shape of a frustum of a cone, and which fits in the bottom 9 of the refrigerator or ice-box. It has preferably a marginal flange 10 resting upon the metallic lining of the floor of the ice-box and is soldered thereto. Fitting within the tube or pipe 8 is a detachable sealing cup or trap 11, preferably formed in the shape of a cone and having a flange 13, that rests upon the flange 10 of the pipe 8, and upon the flange

13 of the cup 11 rests the rim 7 of the flange 6. By this means the sealing cup or trap is tightly but removably fixed with relation to the drain-pipe and the discharge-pipe, and being supported independently of these parts is readily removed for cleaning, and when thus removed its interior is unobstructed. The cup 11 is formed with side openings or apertures 14 for the passage of water. The lower end of the pipe 5 extends beneath the flange 6, as shown in Fig. III, and extends to a lower elevation than the bottom of the apertures 14, so that when water accumulates in the cup 11 up to the apertures 14 the bottom of the pipe 5 is submerged in the water, and thus a trap is formed preventing air from entering the ice-box or refrigerator. The water passing through the apertures 14 is conducted by the pipe 8 to a vessel placed beneath the ice-box.

To clean the cup 11, it is only necessary to raise the pipe 5 until the flange 6 of the lower end of the pipe is elevated a distance above the cup sufficient to allow the cup to be taken out, and thus a provision is made for the cleaning of the trap as often as may be desired.

The object in making the flange 6 cup-shaped is to provide a firm support and hold the pipe 5 from lateral movement should it be struck by articles placed in the provision-chamber, for it will be seen that the flange has a bearing against the cup 11 at 15.

Any moisture collecting on the bottom of the provision-chamber can seep through between the flange 13 of the cup and the flange 10 of the tube 8, or in case these parts fit too snugly or closely together for the water to seep through when the cup is in position the water will pass out when the cup is removed.

While we have shown the trap located at the bottom of the provision-chamber, it is evident that it might be located at a higher elevation by simply lengthening the pipe 8, so that it would extend up into the provision-chamber and correspondingly shorten the pipe 5 between the flange 6 and its upper end.

We claim as our invention—

A trap for ice-boxes and refrigerators comprising a vertically-movable drain-pipe having a cup-shaped flange at its lower end formed with a horizontal rim, a discharge-
5 pipe which is secured in the bottom of the ice-box or refrigerator, and a removable cone-shaped cup having openings above the lower end of the drain-pipe and a horizontal rim

located beneath the horizontal rim of said cup-shaped flange, substantially as set forth. 10

CHARLES A. STOCKSTROM.
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In presence of—
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