

(No Model.)

H. W. LIBBEY.
EVAPORATOR ATTACHMENT FOR STOVEPIPES.

No. 472,060.

Patented Apr. 5, 1892.

Fig. 1.

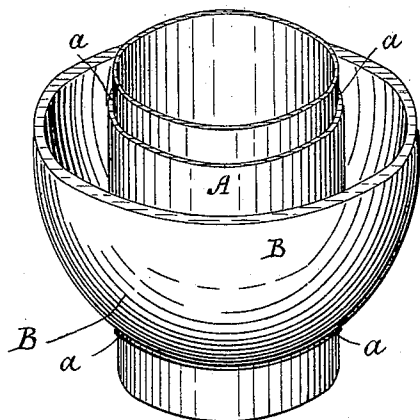


Fig. 3.

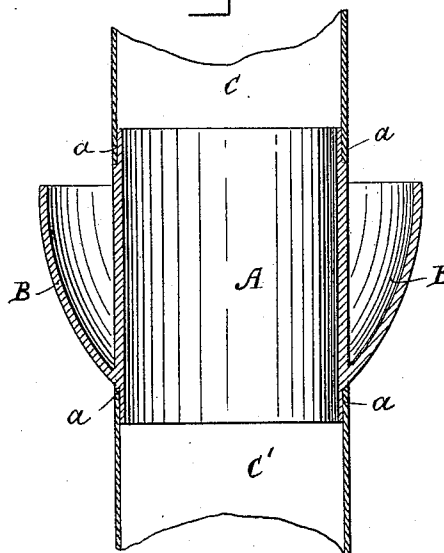
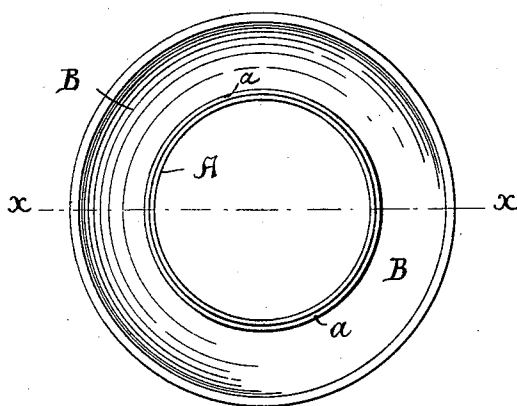


Fig. 2.



Witnesses.

Winifred G. Krum.
John J. Moore.

Inventor.

Horea W. Libbey
by Edwin Planta
attorney.

UNITED STATES PATENT OFFICE.

HOSEA W. LIBBEY, OF BOSTON, MASSACHUSETTS.

EVAPORATOR ATTACHMENT FOR STOVEPIPES.

SPECIFICATION forming part of Letters Patent No. 472,060, dated April 5, 1892.

Application filed July 15, 1890. Serial No. 358,859. (No model.)

To all whom it may concern:

Be it known that I, HOSEA W. LIBBEY, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Evaporator Attachments for Stovepipes, of which the following, taken in connection with the accompanying drawings, is a specification.

The object of my invention is to produce an evaporator or vessel for holding water that can be attached to any stovepipe, so that the water will be evaporated by the heat passing through the vessel, thereby preventing the atmosphere in the room from becoming dry.

The invention consists of a cylindrical piece of metal with a trough or receptacle around the same, as hereinafter fully described, and pointed out in the claim.

Referring to the accompanying drawings, Figure 1 is a perspective view of an evaporator embodying my invention. Fig. 2 is a plan or top view of the same. Fig. 3 is a vertical section taken on line *xx* of Fig. 2.

The evaporator is made of metal cast in one piece, and consists of a cylindrical piece A, the interior of which is of the same diameter throughout. At the top and bottom on the outside it is recessed, as shown at *a a*, to receive the ends of the stovepipes C C', the central position thus forming a connection between the two pipes.

B is a trough or receptacle around the central piece A and cast in one therewith. By making the evaporator in this way it can be cast in the usual manner without the use of a core or other special devices, as there are no shoulders or offsets upon the interior of the cylinder to prevent the withdrawal of the pattern from the mold, and the flare of the trough will also permit of its being withdrawn from the mold, and by making the shoulders or offsets upon the exterior of the ends of the cylindrical portion A if the ends of the pipes *c*

and *c'* should happen to slip past the shoulder no material damage would be done, as the end of the lower pipe *c'* would engage with the lower portion of the trough and prevent its further movement in that direction, and if the upper pipe *c* should pass its shoulder it would simply slip down into the trough out of sight, where the only damage that could be done would be the slight shortening of the pipe which would take place. As the weight of the evaporator would be added to that of the pipe above the lower joint, the necessity of the additional stop as the lower portion of the trough at once becomes apparent. The evaporator may be placed in any convenient position in the stovepipe and the trough B filled with water, the heat passing up through the central portion A causing the water to become heated and slowly vaporized, which vapor passes out into the room and moistens the atmosphere. I prefer to have the upper part of the trough open, as shown; but, if desired, a fancy open-work cover might be placed over the same.

What I claim as my invention is—

An evaporator for stovepipes, consisting of an integral casting comprising a central cylindrical portion and a flaring trough around it, the interior of the cylindrical portion being of the same diameter throughout and having its top and bottom recessed on the outside for the reception of the ends of the stovepipe, and the trough being open at its top and having its lower portion near the recess at the bottom of the cylindrical portion, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 16th day of June, A. D. 1890.

HOSEA W. LIBBEY.

Witnesses:

CHAS. STEERE,
EDWIN PLANTA.