

E. A. Leach, Metallic Cuspadores,

No. 119,705.

Patented Oct. 10, 1871.

Fig. 1,

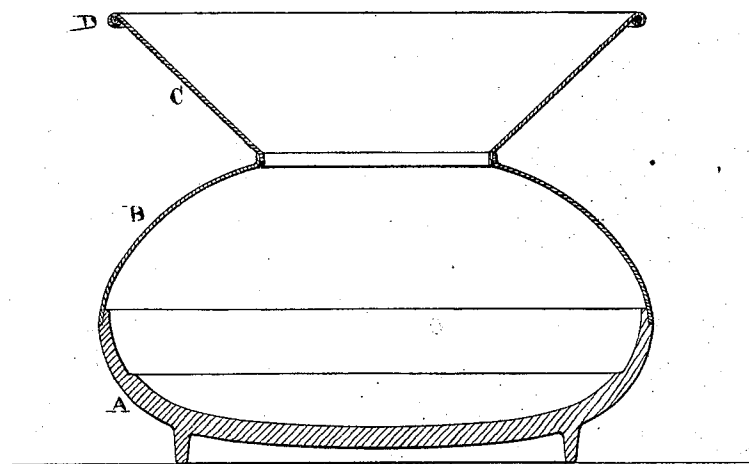
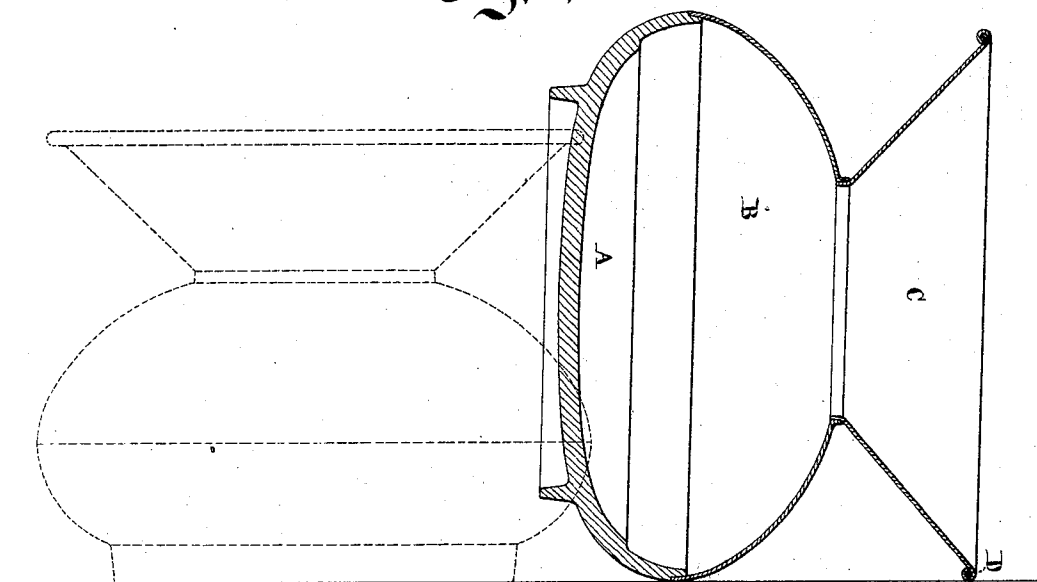


Fig. 2,



Witnesses,

Jno. D. Patten
W. S. Miller.

Inventor,

Eugene A. Leach
by his attorney
J. S. Leach

UNITED STATES PATENT OFFICE.

EUGENE A. HEATH, OF NEW YORK, N. Y.

IMPROVEMENT IN CUSPADORES.

Specification forming part of Letters Patent No. 119,705, dated October 10, 1871.

To all whom it may concern:

Be it known that I, EUGENE A. HEATH, of New York city, in the State of New York, have invented certain new and useful Improvements in Cuspadores, of which the following is a specification setting forth what I consider the best means of carrying it into effect.

The accompanying drawing forms a part of this specification. Figure 1 is a vertical section, showing the construction in its proper position; and Fig. 2, a double view, the strong lines being a section in an upset or overturned position and the dotted lines an elevation in its upright position.

Similar letters indicate like parts in both the figures.

I form separately three metallic parts and unite them, after suitable preparation, tightly and strongly by soldering. The lowermost, A, is of cast-iron, thick at the extreme bottom and thinner toward the top. Its upper edge is rabbeted and nicely finished to receive the lower edge of the sheet-metal part B, and form a flush exterior surface therewith, as shown. B is a piece of sheet-iron pressed in a Grimshaw press, or otherwise formed in the proper dome shape, and of exactly the proper diameter, and with a vertical flange at its upper edge, as shown. C is a conical piece, which may be similarly formed into shape. Its lower edge has a flange which matches closely inside the flanged upper edge of B, and its upper edge is turned over by the ordinary tin-smiths' tools or otherwise, and made to embrace a wire ring, D, to stiffen it, the construction of which is obvious.

On soldering the several joints, smoothly and

properly decorating the surfaces, there results a metallic cuspadore not liable to fracture, and lighter than ordinary cuspadores on its upper side and much heavier than ordinary cuspadores on its lower side.

One of the important ends attained by my invention is extraordinary stability. If the cuspadore is upset by any chance and caused to lie for a time in the position indicated by the strong lines in Fig. 2, the excess of weight in its base, taken in connection with its form, causes it to return again of itself to its proper upright position as soon as the disturbing cause is removed.

I have shown the interior as formed with an offset, below which it is materially thicker than above, and prefer to so cast it. The upper portions may be formed, with some success, by spinning suitable thin brass.

The junctions of the several parts may be further secured by causing one part to cling upon a bead in addition to the soldering. In some cases rivets or the like ordinary or suitable fastenings may be employed.

I claim—

A metallic cuspadore having a heavy base, A, and a light upper portion, B C, formed and combined substantially as and for the purposes herein set forth.

In testimony whereof I have hereunto set my name in presence of two subscribing witnesses.

E. A. HEATH.

Witnesses:

AUGUSTUS P. MCGRAW,

C. C. LIVINGS.

500 words