

(No Model.)

R. MARSH.
LAMP.

No. 579,156.

Patented Mar. 23, 1897.

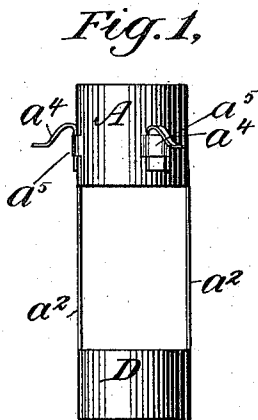
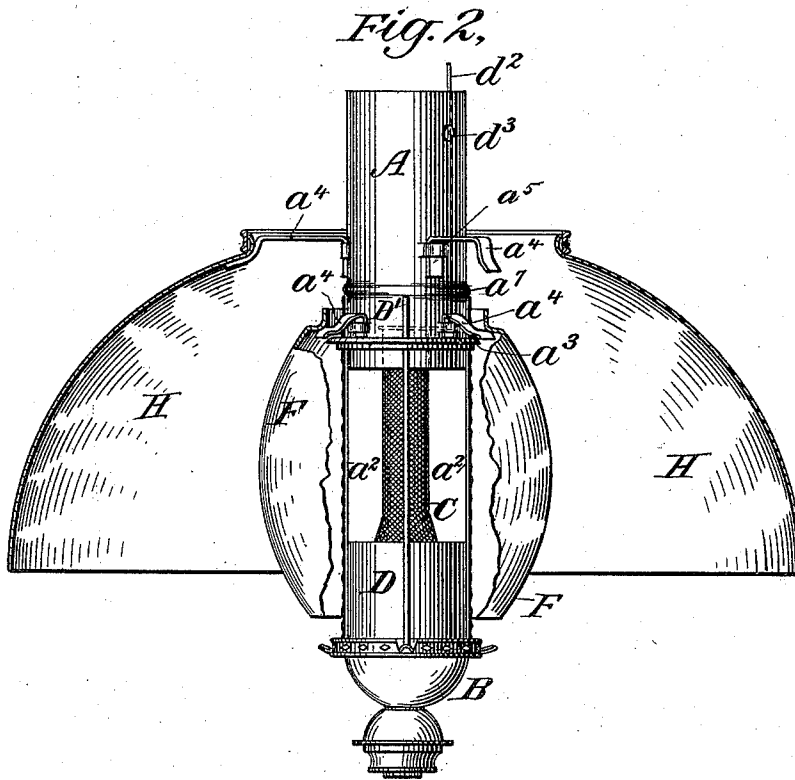


Fig. 4,

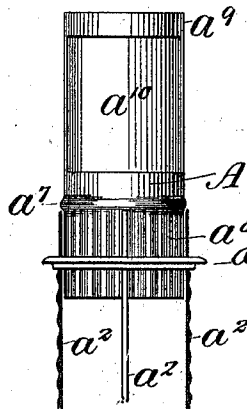
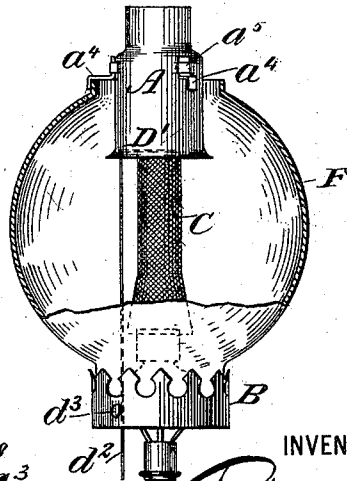


Fig. 3,



WITNESSES:

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UNITED STATES PATENT OFFICE.

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LAMP.

SPECIFICATION forming part of Letters Patent No. 579,156, dated March 23, 1897.

Application filed December 18, 1895. Serial No. 572,558. (No model.)

To all whom it may concern:

Be it known that I, RIVERIUS MARSH, a citizen of the United States, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented certain new and useful Improvements in Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to lamps, and more particularly to a new and useful elevated or suspended chimney in connection with an incandescent central-draft burner, or with other gas or oil burners, as it may be desired.

In describing and defining my invention I have made use of the accompanying drawings, in which—

Figure 1 is an elevation or front view of one of my chimneys. Fig. 2 is partly an elevation and partly a sectional view of a complete incandescent lamp with my invention in place. Fig. 3 is a modified form of my invention; and Fig. 4 is a view of my invention, showing the same as made of mica, all of which will be hereinafter fully shown and described.

In all of the figures the same part will be indicated by the same letter.

A is my elevated chimney, which may be made of metal or other desirable material, and which is attached to the base-ring D by means of supports a^2 . In the body of the chimney A are the loops a^3 , into which the bent arms a^4 are inserted for the purpose hereinafter described.

In Fig. 2 I have shown my invention in connection with an atmospheric gas-lamp of the familiar Welsbach type. It is well known that in these lamps the intense heat of the mantle C is very destructive of the ordinary chimney, and that in turn, when the latter cracks and breaks, it ordinarily shatters the mantle. In this figure from the burner B there rise supports a^2 for the ring a^3 and supporting the elevated chimney A. Where the flame is exposed to sudden drafts, a globe F is supported by arms a^4 . The shade H is suspended over the whole by means of similar arms a^4 . The mantle C is held by the holder-ring D', which is supported by rod d^2 and adjusted in any desired position by means of

a set-screw d^3 , this latter attaching or binding the rod d^2 to the chimney A.

In Fig. 3 I have shown a modified construction of my invention. Herein the globe F is firmly held in the burner-base B, and in its turn supports the elevated chimney A by means of the bent arms a^4 . Likewise the mantle adjustment is from below.

In Fig. 4 I have shown a modified form of my invention wherein the elevated chimney A has a projecting annular beaded portion a^7 , which may contact with ring a^3 and below which are longitudinal corrugations a^8 to admit air between the body of the chimney and the ring a^3 . A top portion or crown a^9 is of metal, below which is a mica part a^{10} .

Having described the drawings, I will now briefly outline the purpose of the invention.

The elevated chimney A is in a manner a funnel which forces or aids the central draft of air, which is directed by the ring or base D and impinges upon the glowing mantle C, greatly elevating and increasing its brilliancy. This dispenses with the usual chimneys, which, as heretofore stated, are liable to breakage and to destroy the mantle. When the globe F is used, the construction will permit the ingress of air from both above and below, and the use of the bent arms a^4 in the manner described constitutes a simple method of aggregating the parts of the lamp.

Instead of supporting the chimney by means of the arms a^4 , as in Fig. 3, the globe may be provided with a ring similar to ring a^3 (shown in Fig. 4) and the chimney corrugated at its lower end to allow the hot air to escape and prevent it accumulating between the lower end of the chimney and the globe.

I have now fully described my invention and made clear all of its details, and what I desire to claim and secure by my Letters Patent is—

1. In a lamp-chimney, the combination with the cylindrical base and the vertical supports secured thereto, of the chimney having a peripheral bead intermediate its ends, and the ring encircling said chimney between which and the chimney the said supports pass, substantially as described.

2. In a lamp-chimney, the combination with the cylindrical base and the vertical supports secured thereto, of the cylindrical chimney

having a peripheral bead intermediate its ends, the loops formed above and below said bead, the bent arms engaging therewith for supporting a shade and a globe and the ring encircling the upper ends of said supports, substantially as described.

3. In a lamp-chimney, the combination with the cylindrical base, and the vertical supports secured thereto, having transverse ribs or corrugations on their outer sides, of the chimney having a peripheral bead intermediate its ends, the loops above and below the same, the bent arms engaging therewith, and the ring encircling the upper ends of said supports, substantially as described.

4. In a lamp-chimney, the combination with the cylindrical base, the vertical supports, having transverse ribs or corrugations on their outer sides, of the chimney having the lower end formed with vertical peripheral corrugations and the ring encircling the upper ends of said rods, and cooperating with said corrugations, substantially as described.

5. In a lamp-chimney, the combination with the cylindrical base and the vertical supports connected therewith, of the chimney having vertical peripheral corrugations at the lower end, and the ring encircling the upper end of

said supports and cooperating with said corrugations, substantially as described. 30

6. In a lamp-chimney, the combination with the cylindrical base, and the vertical supports connected therewith having transverse ribs or corrugations on their outer sides, of the chimney, having a peripheral bead intermediate its ends, and formed with vertical peripheral corrugations below said bead, the loops, the bent arms and the ring encircling said supports at their upper ends, and cooperating with said corrugations, substantially as described. 35 40

7. In a lamp-chimney, the combination with the cylindrical base, and the vertical supports connected therewith having transverse ribs or corrugations on their outer sides, of the cylindrical metal chimney having peripheral corrugations at the lower end, a peripheral bead near the upper end and a mica cylinder secured to the upper end provided with a metal cap, substantially as described. 45 50

In testimony whereof I affix my signature in presence of two witnesses.

RIVERIUS MARSH.

Witnesses:

W. K. PETERS,
G. E. CORDEAUX.