

C. W. CAHOON.

Lamp Burner.

No. 84,993.

Patented Dec. 15, 1868.

Fig. 1.

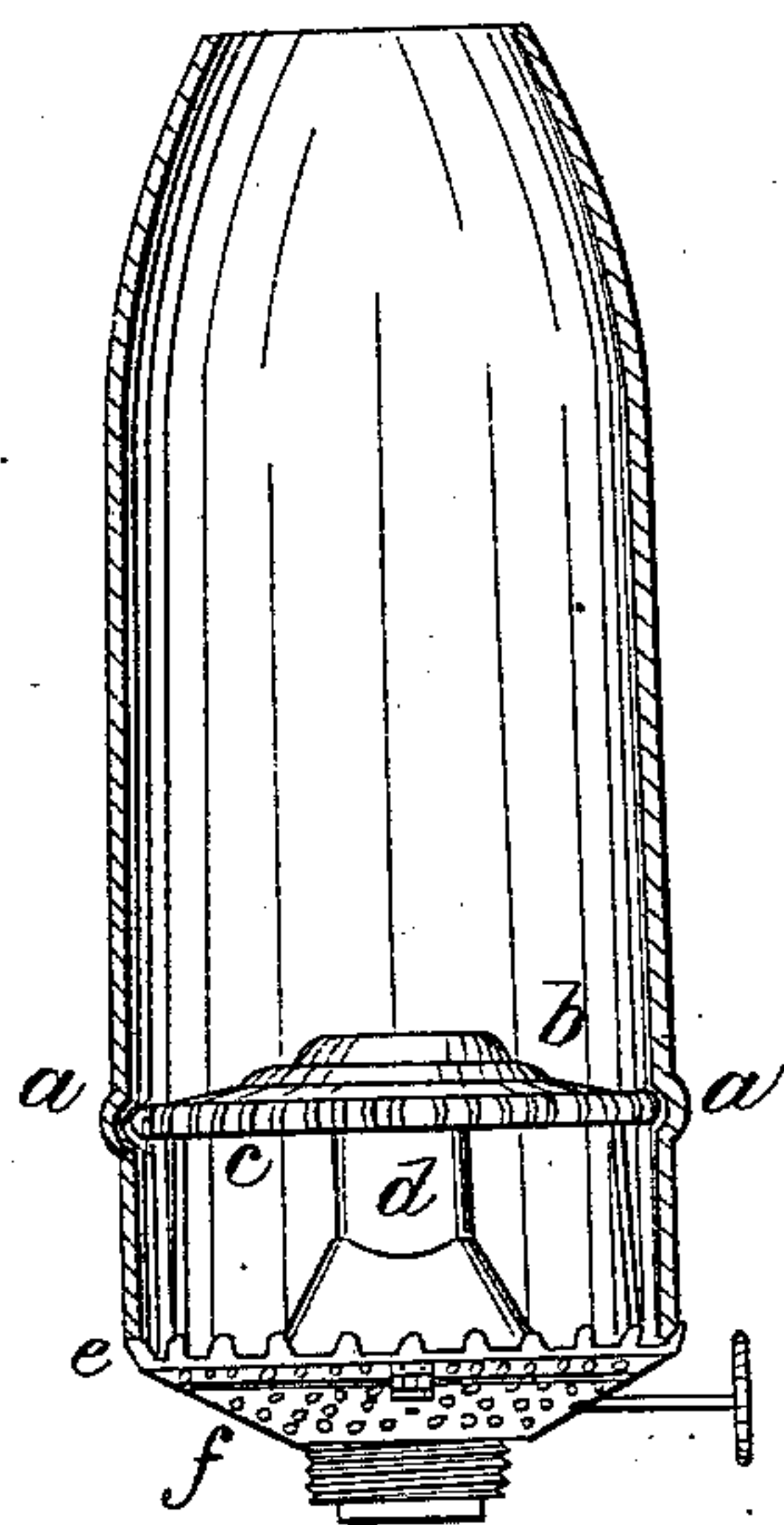
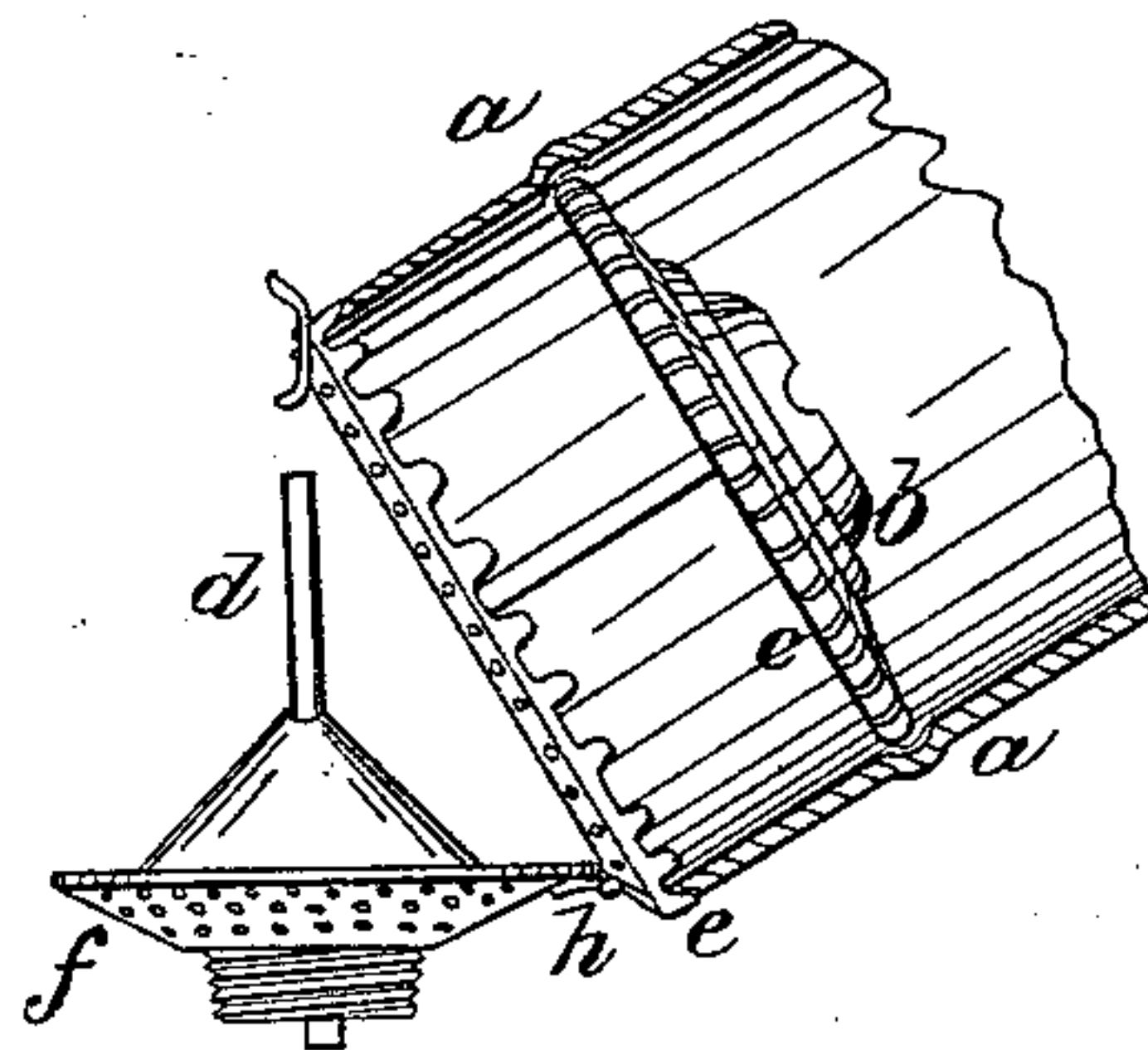


Fig. 2.



Witnesses
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CHARLES W. CAHOON, OF PORTLAND, MAINE.

Letters Patent No. 84,993, dated December 15, 1868.

LAMP-BURNER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES W. CAHOON, of Portland, county of Cumberland, and State of Maine, have invented a new and useful Improvement in Lamp-Burners; and I hereby declare the following to be a full, clear, and exact description of my invention, enabling others to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 shows a side elevation of the lamp-burner and section of the chimney.

Figure 2, another view of same, with the chimney and deflector turned off from the burner.

I am aware of certain patents of the United States upon lamp-burners, in which the chimney is held to the deflector by the deflector's fitting within the same, and made either with a spiral spring around the edge of the deflector, or else having the deflector so made as to be a spring within itself. Such I do not claim; but my invention has relation to an improvement therefor, by reason of which burners having chimneys held by deflectors, in the manner described, may be used in conjunction with a joint, upon which the chimney and its supports are turned off from over the wick-tube.

Such an addition is of evident advantage, inasmuch as the chimneys above referred to cannot, with entire security as now constructed, be so used, having no sufficient device to hold them securely on the supports, if placed in the position shown in fig. 2, though they might, in a measure, answer for such a purpose.

It may be added, that such chimneys are not applied with such an object, but are simply intended to be moved or pulled off from the supports and from around the deflector, when it is desired to uncover the flame or wick-tube.

Such a method of operation is an obvious inconvenience for different reasons, chief among which are the heated condition of a chimney when having for a time rested over and around the flame, and, also, the comparatively insecure condition of a chimney when merely held by the outward pressure of a metal deflector upon the smooth glass inner surface of the chimney.

Letters Patent of the United States are granted to me for a joint, in its connection, as therein set forth, with a lamp-burner, and I, therefore, do not claim such

device, but a reference to the accompanying drawings will explain the nature of my present application.

a shows a shoulder, constructed in a glass chimney, and extending entirely around the inner periphery thereof.

b shows a deflector, of the description already alluded to, represented in this drawing, with a helical-wire spring inserted around its outer edge. (See *e*.)

d is the wick-tube;

e, the chimney-rests or supports; and

f, a perforated plate, to admit the requisite air-current for creating combustion.

Other deflectors are made with slots in the material, radiating from the centre thereof, but the object is similar to that of the one here shown, to wit, to form a spring to hold the chimney by outward pressure.

By the formation of the shoulder *a*, it is evident that the chimney is firmly held in its union with the deflector *b*, requiring some considerable force to separate them, more than the weight of the chimney.

The spring of the deflector expanding into or against the shoulder, affords a secure fastening, enabling these deflectors to be used with the additional convenience of the joint *h*. (See fig. 2.)

The base of the chimney, as before intimated, rests at *e*.

The operation of placing the chimney is simply pressing it over the deflector till the base of the chimney rests at *e*, when the spring of the deflector will have arrived at its position in the shoulder, recess, or groove *d*.

The chimney can then be turned off, as illustrated at fig. 2, without danger of it falling from its support, or slipping from around the deflector.

Burners, it is plain, may also be so constructed as to hold a chimney by interior chimney-fastenings, and I desire to specify the application of my improvement to such.

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

The combination of a burner, having interior chimney-fastenings, with a horizontal joint, substantially as and for the purposes set forth.

Witnesses:

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