2 Sheets—Sheet 1.

C. W. CAHOON.

Lamp Chimney Holder

No. 36,386. Patented Sept. 2, 1862.

Fig. 1.

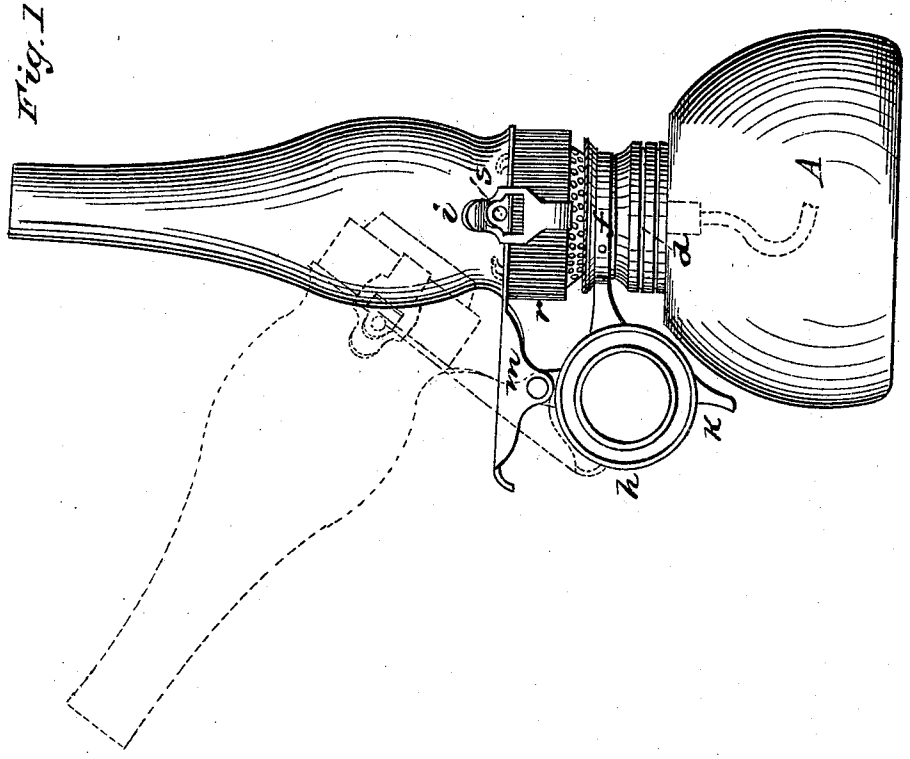
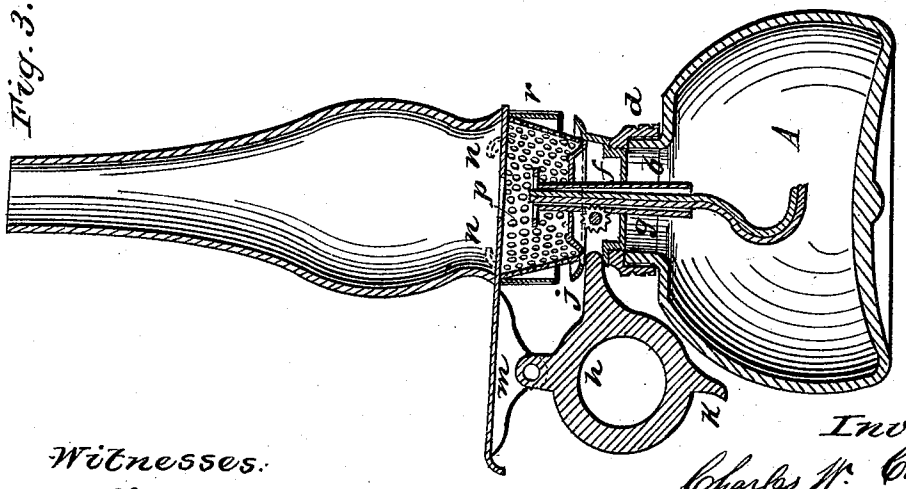


Fig. 3.



Witnesses.

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2 Sheets—Sheet 2.

C. W. CAHOON.

Lamp Chimney Holder.

No. 36,386. Patented Sept. 2, 1862.

Fig. 2.

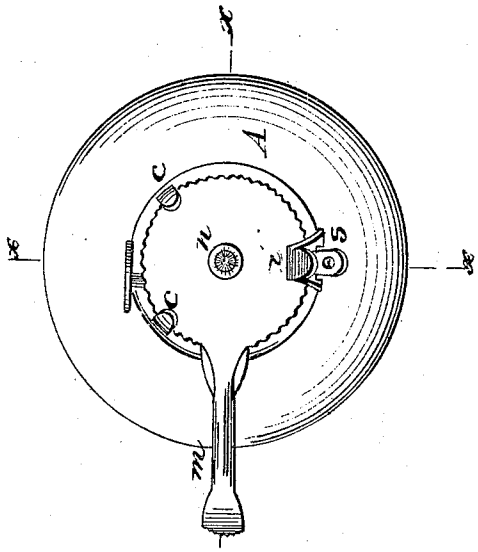


Fig. 3.

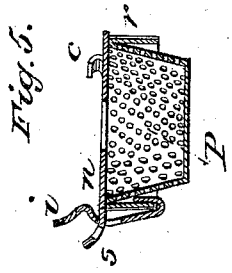
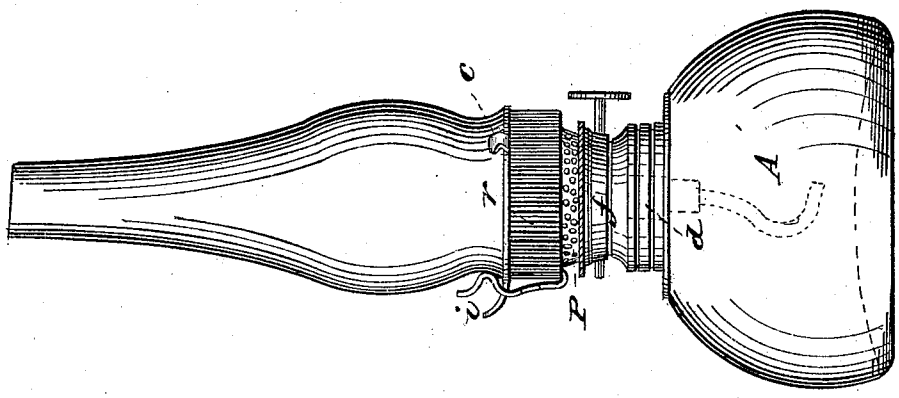


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES W. CAHOON, OF PORTLAND, MAINE.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **36,386**, dated September 2, 1862.

To all whom it may concern:

Be it known that I, CHARLES W. CAHOON, of Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Lamps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents a side view of a lamp embodying my improvements. Fig. 2 represents a plan of the same with the glass chimney removed. Fig. 3 represents a vertical section of the lamp, following the line *x x* of Fig. 2. Fig. 4 represents a side view of the lamp, viewed at right angles to Fig. 1; and Fig. 5 represents a vertical section of the head of the lamp, following the line of Fig. 2.

The bodies of small hand-lamps for burning kerosene and other oils are generally made of glass and are frequently broken by use.

The object of the first part of my invention is to enable the user to repair the broken lamp more readily than has hitherto been possible; and it consists in combining together the wick-tube holder or head of the lamp and the handle in such manner that the body of the lamp is suspended from the lamp-head when the lamp is carried, and that the handle and lamp-head are both simultaneously attached to the body of the lamp by screwing the lamp-head to the collar, which is fast to the neck of the lamp-body, and are both simultaneously detached therefrom by unscrewing the lamp-head. Hence when a lamp-body is broken it is only necessary to procure a new body fitted with a collar at its neck, as the old lamp-head, with its handle, can be screwed directly to the new collar.

The object of the second part of my invention is to enable the first part of my invention to be applied with advantage to those lamps in which a vibratable chimney-holder is used; and it consists in combining a vibratable chimney-holder, a handle, and a lamp-head together in such manner that these three members may all be simultaneously attached to a lamp-body by screwing the lamp-head to the collar of the lamp-body and detached therefrom by unscrewing the lamp-head.

The third part of my invention consists in a new spring chimney-fastening composed of an independent spring and a tongue or its equivalent, as will be hereinafter more fully described.

The object of the fourth part of my invention is to enable the air-screen of a kerosene-lamp to be made at less expense and at the same time more ornamental than the usual plain cylindrical air-screens hitherto used; and it consists in the combination of a corrugated cylindrical air-screen with the deflector of the lamp, the corrugation of the metal stiffening it in the direction of its length to such a degree that the air-screen may be made of thinner material, and the combination of it with the deflector (which has the form of a disk) maintaining its cylindrical form.

All parts of my invention are embodied in the lamp represented in the accompanying drawings.

The body A of this lamp is of glass, and is fitted at its neck *b* with a screwed collar, *d*, made fast to the neck by plaster-of-paris, in the usual manner. The lamp-head *f* holds the wick-tube *g* and has a screw at its lower end to screw into the collar *d* of the lamp-body. The lamp head is combined directly with the handle *h*, which in this instance has the form of a ring with two prongs, *j k*, one of which, *j*, is made fast to the lamp-head by riveting and soldering, while the other is located at the lower side of the ring and forms a bearing for the back of the second finger of the human hand when the first finger is inserted in the ring. The bearing of the weight of the lamp upon the hand is therefore the same whatever be the form of the lamp-body.

In order to embody the second part of my invention, the vibratable chimney-holder *m* is pivoted to the handle *h*, the handle in this instance forming the connection between the vibratable chimney-holder and lamp-head, so that these three may be simultaneously attached to a lamp-body by screwing the lamp-head to the collar *d* or detached therefrom by unscrewing the lamp-head. The chimney-holder is provided with chimney-fastenings *c c i* to hold a glass chimney. It also forms the deflector *n* and carries the perforated air-chamber *p* and air-screen *r*. I have thus far described a screw as the means of connecting the lamp-head with the collar of the lamp-

body, that being the usual means; but it is evident that a different means of forming this connection—such, for example, as a bayonet-clutch—may be used without affecting my invention.

In order to embody the third part of my intion, the adjustable chimney-fastening *i* is formed by a spring-plate. This spring-plate is of a U form, its inner branch passing up inside of the air-screen *r* and its outer branch passing up outside of the air-screen and being perforated to fit upon a tongue, *s*; hence the tongue holds the spring-plate from dropping out of place without any soldering or other fastening being required to secure the fastening to the lamp, and the fastening, being merely a piece of springy brass plate bent into a U form and perforated, can be made at a very small cost. If deemed best, the tongue may be made broad and perforated and the U-spring inserted through the perforation. If this part of my invention is not used, an ordinary adjustable screw chimney-fastening may be applied to the deflector.

In order to embody the fourth part of my invention, the air-screen *r* is made of a strip of thin sheet metal corrugated and bent into the form of a cylinder, and the cylinder so made is secured to the deflector *n* or its equivalent, the readiest mode of securing the two being by soldering them together at two or more places on the inside of the air-screen.

Having thus described a lamp embodying my invention, it is proper to state that I do not claim to be the first who invented the separate members of the lamp herein described, except where a special claim is made to such separate member; but

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

1. The combination of the lamp-head and handle, substantially as set forth.

2. The combination of the lamp-head, handle, and vibratable chimney-holder fitted with chimney-fastenings, substantially as set forth.

3. The combination of the U-spring chimney-fastening and tongue, substantially as set forth.

4. The combination of a corrugated air-screen and deflector, substantially as set forth.

In testimony whereof I have hereunto subscribed my name.

CHAS. W. CAHOON.

Witnesses:

J. S. HAMLEN, Jr.,

W. L. BENNEM.