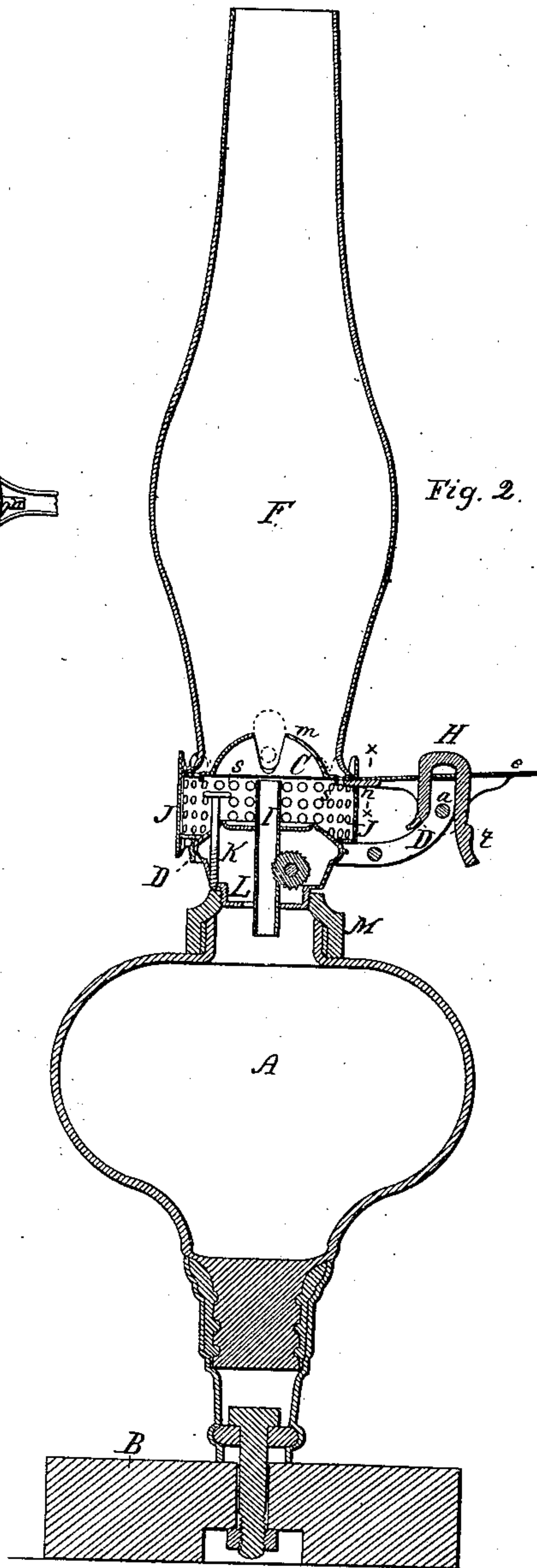
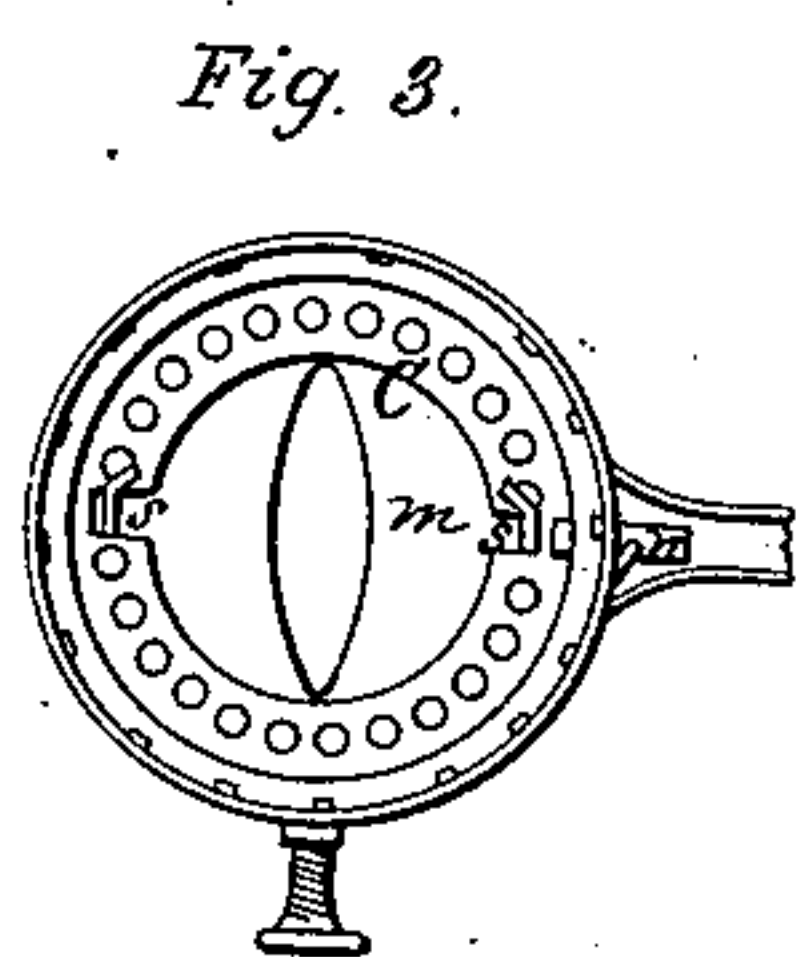
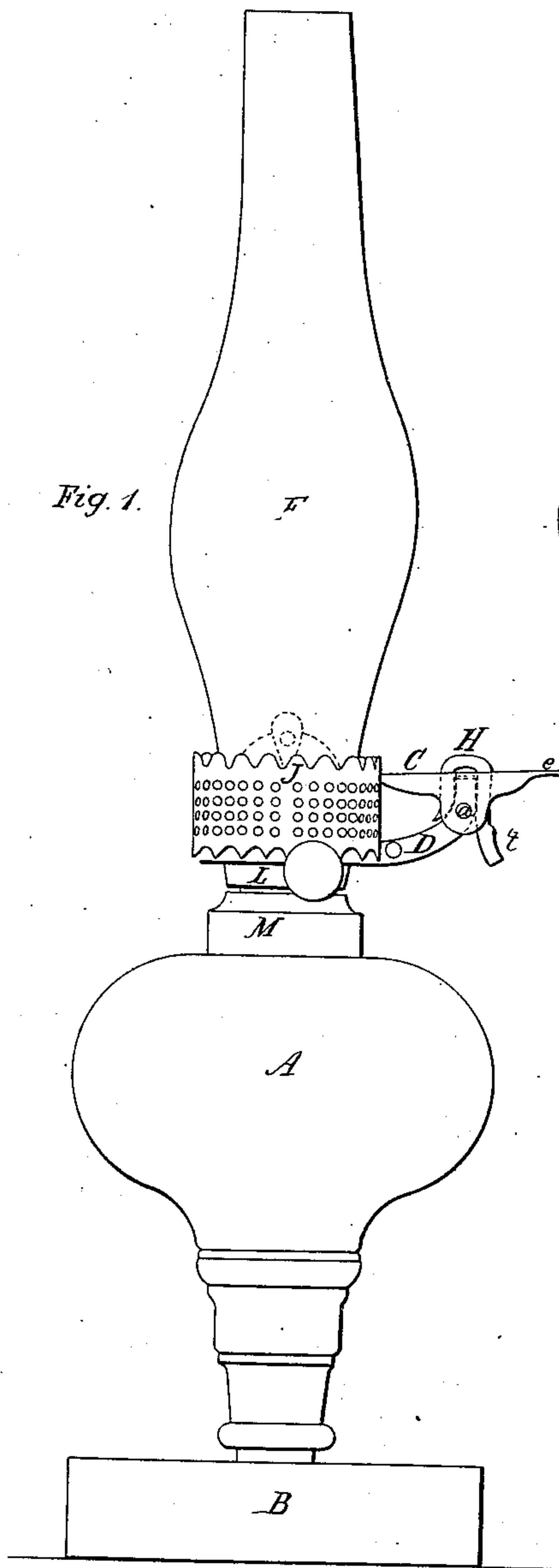


C. W. Cahoon.

Lamp Chimney Holder.

N^o 40,240.

Patented Oct. 13, 1863.



Witnesses.
Melville V. Biggs
W. L. Bennett.

Inventor.
Chas. W. Cahoon
by his attorney
C. P. Remrick.

UNITED STATES PATENT OFFICE.

C. W. CAHOON, OF PORTLAND, MAINE.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. 40,240, dated October 13, 1863.

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 elevation of a lamp embodying my improvements. Fig. 2 represents a vertical section of the same through its center. Fig. 3 represents a plan of the cone and chimney-holder inverted. Fig. 4 represents a transverse section of the chimney-holder at the line *x x* of Fig. 2.

The object of my invention is to enable lamps to be constructed at a less cost than heretofore.

The first part of my invention relates to a chimney-holder made of sheet metal; and it consists in the combination of its sheet-metal shank with a stay, so that the greater part of the chimney-holder may be punched out of a sheet of metal too thin (when unstayed) to form the shank, and yet the shank may be made strong enough to sustain the strains to which it is ordinarily subjected.

The object of the second part of my invention is to fasten a vibratable chimney-holder when it is in place over the wick-tube; and it consists in the combination of a vibratable chimney-holder with a sliding lock-bolt which must be moved before the chimney-holder can be vibrated.

The several parts of my invention or improvements may be used separately, but I prefer to use them both in connection, as shown in the lamp represented in the annexed drawings, in which the body *A* of the lamp is of glass and is supported on a square base, *B*, to which it is firmly secured. The chimney-holder *C* of this lamp is vibratable upon the pivot *a* of a ring-support, *D*, and has a thumb-plate, *e*, by which it can be conveniently vibrated to remove the chimney *F* from over the wick-tube *I*. It is also fitted with chimney-fastenings to hold an independent chimney. The cone *m* is made of a separate piece from the chimney-holder *C*, and is se-

cured to it by two lugs, *s s*, which are passed through slots in the plate of the chimney-holder, and are bent beneath that plate, so as to secure the cone firmly. The plate of the chimney-holder has a hole punched in it of the diameter of the interior of the cone *m*, so that draft of the air is not affected.

In order to embody my first improvement the neck of the chimney-holder is strengthened by a short piece of solid metal, *n*, soldered within it so that the neck is extremely rigid, although the plate of which the chimney-holder is made would be too thin to form a neck of sufficient strength if unstayed.

In order to embody my second improvement two holes are punched in the ridge of the shank of the chimney-holder, one on each side of the upper end of the support *D*, and an inverted U-shaped bolt, *H*, is passed through these holes in such a manner that its legs embrace the opposite edges of the support *D*. So long as this bolt remains in its lowest position, as shown in the drawings, it locks the chimney-holder so that it cannot be vibrated; but if the bolt be moved upward the chimney-holder is loosened so that it can then be freely vibrated.

In order that the bolt may not be pushed entirely out of its place when it is raised, the lower ends of its legs are bent outward (as shown in the drawings,) after it is inserted, and one of its legs is made longer than the other, so as to form a species of handle, *t*, to which the finger can be conveniently applied when the bolt is to be moved.

The chimney-holder *C* and air-screen *J* are made of common tin-plate, and are japanned black by dipping them in Japan varnish in the ordinary manner, and storing them to dry the varnish. They thus present a neat appearance to the eye, although made of a common material, which could not be used otherwise without affecting the marketable value of the lamp.

The lamp represented in the drawings is fitted with an adjustable screw-stop, *K*, such as I have described in a preceding application for a patent. This stop prevents the burner *L* from being screwed far enough into the collar *M* to jam therein, as is frequently the

case in lamps where the screws are made conical. It thus diminishes the risk of breaking the lamp.

Having thus described a lamp embodying all my improvements, what I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a sheet-metal chimney-holder with a stay for the shank thereof, substantially as herein set forth.

2. The combination of a sliding bolt with the vibratable chimney-holder of a lamp, substantially as herein set forth.

In testimony whereof I have hereunto subscribed my name.

CHAS. W. CAHOON.

Witnesses:

R. J. BAILEY,
EDWIN C. STILES.