

E. W. BRIGGS.
CHIMNEY-HOLDER.

No. 172,078.

Patented Jan. 11, 1876.

Fig. 1.

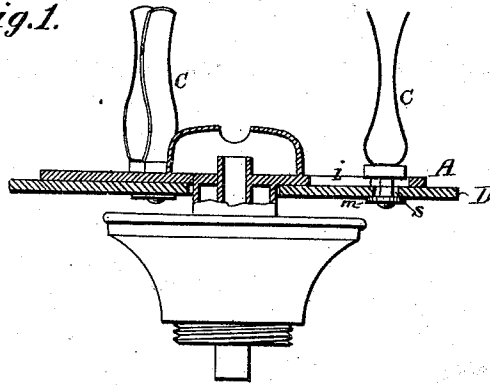


Fig. 2.

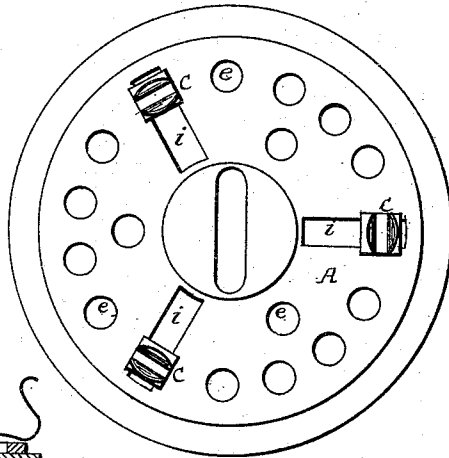


Fig. 5.

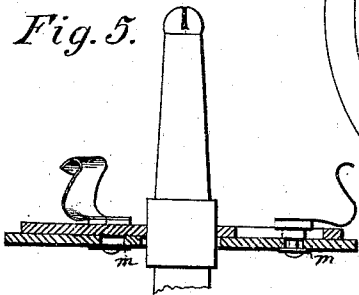


Fig. 4.

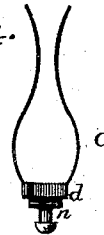
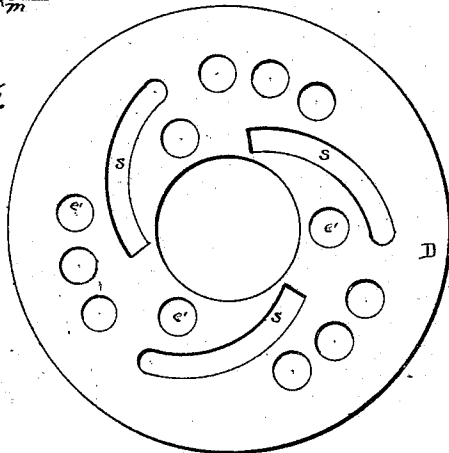


Fig. 3.



Witnesses:

George Thomas
Courtney A. Cooper

E. W. Briggs.

By his atty
Charles H. H. H.

UNITED STATES PATENT OFFICE

EDWARD W. BRIGGS, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND
WALTER D. DESPARD, OF SAME PLACE.

IMPROVEMENT IN CHIMNEY-HOLDERS.

Specification forming part of Letters Patent No. 172,078, dated January 11, 1876; application filed
December 23, 1875.

To all whom it may concern:

Be it known that I, E. W. BRIGGS, of the city, county, and State of New York, have invented an Improved Holder for Chimneys and Globes, of which the following is the specification:

The subject of my invention is a holder for the chimneys or globes of lamp or gas burners, constructed as described hereafter, to retain chimneys or globes of different sizes, and to admit air to the chimneys or globes in proportion to the sizes of the same.

In the accompanying drawing, Figure 1 is a side elevation, partly in section, of the improved holder applied to the burner of a coal-oil lamp; Fig. 2, a plan view; Fig. 3, a detached plan view of the operating-disk; Fig. 4, an elevation of one of the retainers; and Fig. 5, a modification, showing the construction employed for retaining the globes of gas-burners.

The device consists of two flat disks, A D, and retainers C, the latter disk being undermost, and slightly larger in diameter than the disk A. In the disk A are a series of openings, *e*, and three radial slots, *i*, each of which guides a retainer, C, consisting of a slide, *d*, fitted to the slot, provided with two upright flexible fingers, and having at the under side a pin, *n*, which extends through one of the three spiral slots *s* in the disk or plate D. The plate D is supported closely against the plate A by washers *m*, riveted to the pins *n* of the retainers C, and openings *e'* are made in the plate, for a purpose described hereafter. Each plate has a central opening, that in the upper plate being the smallest, so that the plate A may be secured permanently to, or retained temporarily in frictional contact with, the dome or burner of a lamp or gas-fixture, the lower plate being at liberty to revolve freely.

On turning the plate D the sides of the spiral slots *s*, acting on the pins *n* of the slides, will move the latter in the slots *i* to or from the dome or burner, according to the direction in which the plate is turned, until they occupy the proper position to receive the flange of a globe, or the lower edge of the

chimney, which is clamped between the flexible fingers.

It will be seen that the slotted plate D serves to adjust the retainers in both directions, while the retainers C, clasp the chimney on both sides, cannot be displaced, and lock the plate D and each other in their positions after adjustment. It will also be seen that while the slides are thus secured by the plate, the fingers, being elastic, will yield to accommodate themselves to any expansion or contraction of the chimney or globe.

Increased stability is imparted to the slides by causing them to support and bear the weight of the plate D.

The openings *e e'* in the plates A and D are relatively so arranged that when the retainers are at the limit of their outward motion all the openings will coincide, while, as the retainers are retracted, the openings are gradually contracted, thus proportioning the admission of air to the dimensions of the chimney or globe.

I claim as my invention—

1. The globe and chimney attachment for burners, consisting of plates A D, having radial and spiral slots, to which are adapted slides or retainers, substantially as set forth.

2. The combination of the plate A, its slots *i*, the plate D, its spiral slots *s*, and retainers C, adapted to both slots, and provided with flexible fingers, as and for the purposes specified.

3. The combination of the plate A, its slots *i*, the retainers C, and the slotted plate D, supported in contact with the plate A by said retainers, as described.

4. The slotted plates A D, combined with the retainers C, and provided with openings *e e'*, relatively arranged, as and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD W. BRIGGS.

Witnesses:

HENRY T. BROWN,
MICHAEL RYAN.