

2 Sheets--Sheet 1.

S. A. PRESCOTT.  
Shade-Support for Lamps.

No. 159,965.

Patented Feb. 16, 1875.

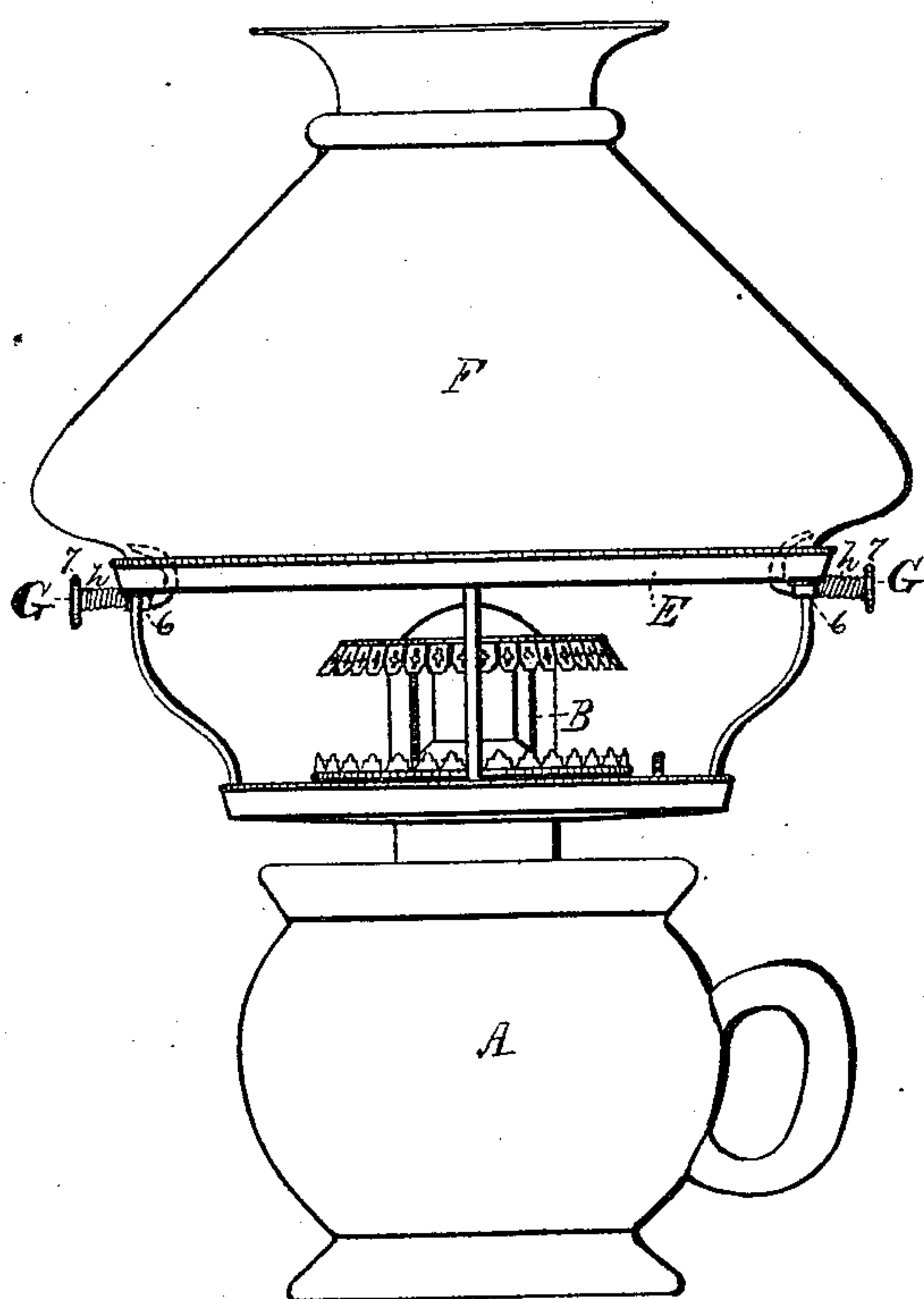


Fig. 1.

Witnesses;  
Thos. B. Dodge  
Edwin C. Spoor

Inventor;  
Samuel A. Prescott

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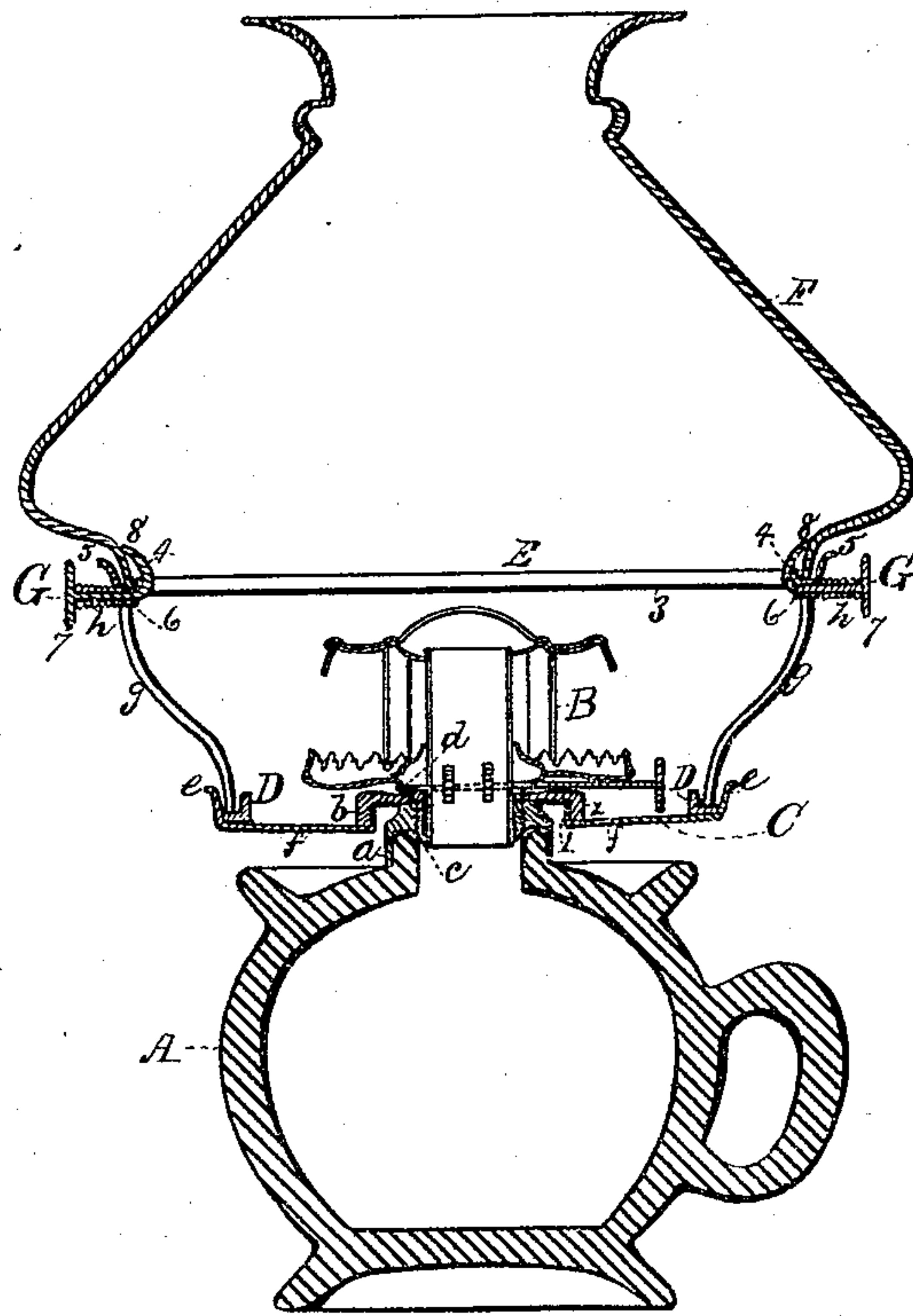


Fig. 2.

Witnesses;  
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# UNITED STATES PATENT OFFICE.

SAMUEL A. PRESCOTT, OF SUTTON, ASSIGNOR TO HIMSELF AND JOHN M. BARKER, OF WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN SHADE-SUPPORTS FOR LAMPS.

Specification forming part of Letters Patent No. **159,965**, dated February 16, 1875; application filed January 4, 1875.

*To all whom it may concern:*

Be it known that I, SAMUEL A. PRESCOTT, of Sutton, in the county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Shade-Supporting Attachments for Hand and other Lamps; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a side view of a hand-lamp with my improvements applied thereto, and Fig. 2 represents a vertical central section of the lamp shown in Fig. 1.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

The part marked A represents the lamp, having a metallic socket-piece, *a*, secured to its upper end, into which the lower end of a burner, B, is screwed in the ordinary manner. With the foregoing parts is combined a metallic base-piece, *b*, having a hole through its center just sufficient to permit the lower part *c* of the burner B to pass through it, when said part *c* is screwed into the socket *a* on top of the lamp. The inner edge of the part *b* is formed tapering or beveling, whereby, when the burner is screwed down, the metallic base-piece *b* will be held securely between the upper edge of the part *a* and the shoulder *d* of the burner, as fully indicated in Fig. 2 of the drawings. Combined with the metallic base-piece *b*, which I prefer to make of cast metal, is another base-piece, C. This latter piece I prefer to stamp out of thin sheet metal, and having an outer and upturned flange, *e*, connected by a series of arms, *f*, to a center ring-piece, 1, which is turned up and pressed to fit around upon the inner surface of the downwardly-projecting ring part 2 of the metal base-piece *b*, the ring part 1 being pressed in so firmly as to secure a permanent connection between the two parts without additional fastenings. The parts *b* and C may be, if desired, stamped from a single piece of sheet metal, although I prefer to make them separately, as above described. Within the flange

E rests a base-ring, D, which is connected by a series of wire arms, *g*, to the inner projecting flange 3 of a shade-supporting ring, E. The inner edge of flange 3 is turned up, as shown at 4, Fig. 2, while the form of the center flange is shown at 5, same figure, thus leaving a flat base between the flanges of ring E, upon which the lower edge of a porcelain shade, F, rests, said flat bottom being of sufficient width to allow of the contraction and expansion of the bottom of the porcelain shade without its binding against either of the flanges 4 and 5. To retain the shade in place and prevent its accidental displacement while the lamp is being carried about or otherwise in use, two spring shade-holding hooks, G G, are employed, and which hooks are fitted to slide in bearings 6, secured to the under side of shade-supporting ring E, spiral springs *h* being fitted thereon, so as to press against their heads 7, thereby keeping their hooked ends 8 out against the inner side of the porcelain shade F, as indicated in full and dotted lines, Figs. 1 and 2, of the drawings. By this arrangement the porcelain shade can be easily placed in position upon the shade-supporting ring E, and as easily removed therefrom, while, at the same time, it is properly held in position and prevented from any undue movement while in use, but not so bound or held as to prevent the free expansion and contraction of the shade.

It will be understood that any suitable chimney may be used in connection with the burner, which is of the ordinary construction.

If desired, while carrying the lamp about from room to room, or up and down stairs, for any particular purpose, the porcelain shade F, together with the rings D and E, may be quickly removed from the base supporting-piece C, and as quickly replaced when the lamp is again to be used on a table or stand.

By my improvements one of the greatest objections to the use of hand-lamps for reading, writing, and sewing, as such lamps have heretofore been constructed, is obviated, since, by my improvements, a porcelain shade can be easily used upon any lamp ordinarily used in domestic affairs; and, as the burner used in such lamps have nearly all a uniform-sized



base, *c*, only two sizes being ordinarily used for domestic purposes, my improved shade-supporting attachments can be manufactured and sold separately and independently from the lamps, which is a great convenience, both to the trade and to the public.

When the parts lettered *b*, *C*, *e*, *f*, and 1 and 2 are struck or stamped from a single piece of sheet metal, they will answer substantially the same purpose for a support to the ring *D*; and, therefore, I do not wish to confine myself to making the part marked *b* and 2 from a separate piece of metal, as shown in the drawing; and, in lieu of the springs *G*, different forms of spring or springs for holding the porcelain shade may be employed.

Having described my improvements in shade-supporting attachments for hand and

other lamps, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. In combination with the shade-supporting base, adapted to be attached to the lamp, the removable ring resting on said base, the elevated shade-holder proper, and the arms or supports intermediate between and connecting said removable ring and shade-holder, substantially as set forth.

2. The combination, with the shade-holder, of one or more supporting spring-hooks, which bear outwardly against the inner side or face of the shade, as and for the purposes set forth.

SAMUEL A. PRESCOTT.

Witnesses:

THOS. H. DODGE,  
EDWIN E. MOORE.