

H. W. HAYDEN.  
Lamp-Chimney Holder.

No. 97,772.

Patented Dec. 14, 1869.

FIG. 1.

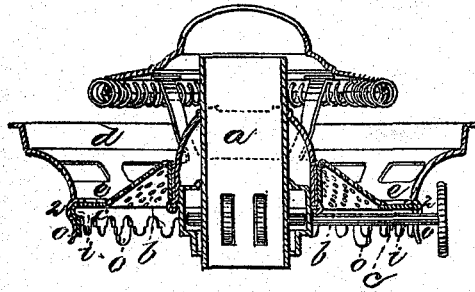


FIG. 2.

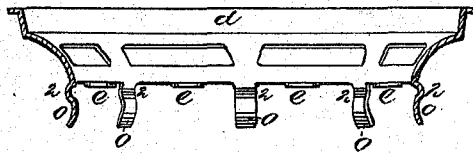
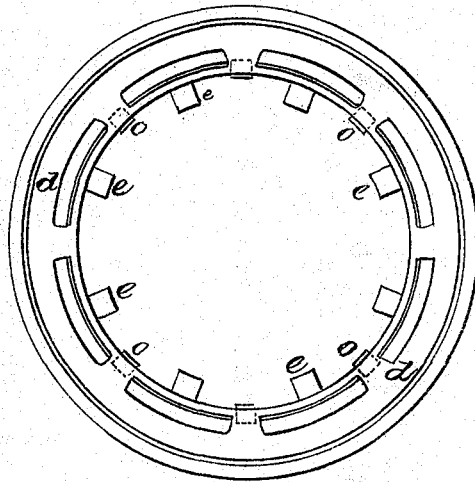


FIG. 3.



WITNESSES:

Chas. H. Smith  
Geo. C. Walker.

INVENTOR:

H. W. Hayden,  
by L. W. Lowell atty.

# United States Patent Office.

HIRAM W. HAYDEN, OF WATERBURY, CONNECTICUT, ASSIGNOR TO HOLMES,  
BOOTH & HAYDENS, OF SAME PLACE.

Letters Patent No. 97,772, dated December 14, 1869.

## IMPROVEMENT IN SHADE-RINGS FOR LAMP-BURNERS.

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, HIRAM W. HAYDEN, of Waterbury, in the county of New Haven, and State of Connecticut, have invented and made a new and useful Improvement in Shade-Rings for Lamps, and the following is declared to be a correct description of the same.

Shade-rings have before been made removable from the lamp-burner, so as to be taken off or replaced as the burner was required for use, either with or without a globe or shade. These shade-rings are liable to slip off the edge of the base of the burner, particularly in cases where a heavy shade is used, or the lamp is moved from place to place.

My invention is to secure the shade-ring more firmly in place, and prevent the same becoming loose, and slipping off the edge of the base of the burner when subjected to the motion, the grease, or the expansion by heat, to which such shade-rings are exposed.

Said invention consists in a series of crimped springs, applied around the inner periphery of the shade-ring, in combination with the raised rib or bead around the edge of the base of the burner, so that said crimps of the springs, setting over the said bead, effectually grasp said bead and hold the shade-ring to place, but

allow of its removal when the crimped springs are sprung back over such bead.

In the drawing—

Figure 1 is a vertical section of a lamp-burner, with the said shade-ring applied.

Figure 2 is a section, and

Figure 3, a plan of the shade-ring, detached.

The lamp-burner is formed in any usual manner.

I have shown the wick-tube *a*, deflector or draught-plate *b*, and base *c*, for the burner.

Around the edge of the base *c*, is the bead or rib *i*.

*d* is the shade-ring, formed with the supporting-spurs *e* and springs *o*.

These springs *o* are crimped at 2 2, to set over the bead or rib *i*, as aforesaid, and hold the shade-ring properly in place, or allow of its removal when the springs are pressed back to slide over the rib *i*.

I claim, as my invention—

The crimps 2 2 in the springs *o* of the shade-ring *d*, in combination with the bead *i* around the base of the burner, as and for the purposes specified.

Dated November 13, A. D. 1869.

Witnesses:

H. W. HAYDEN.

CHAS. W. GILLETTE,

JAS. M. ABBOTT.