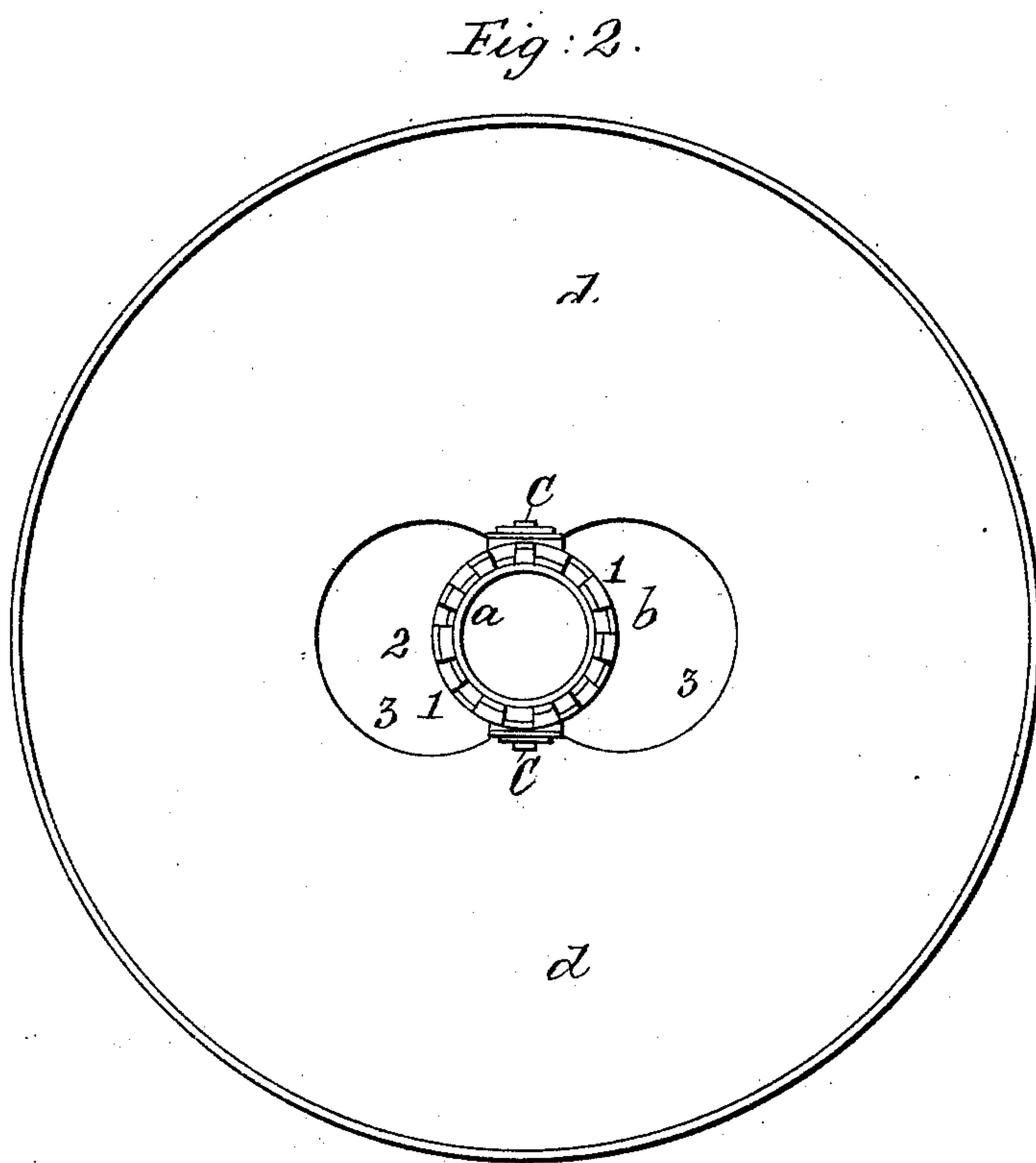
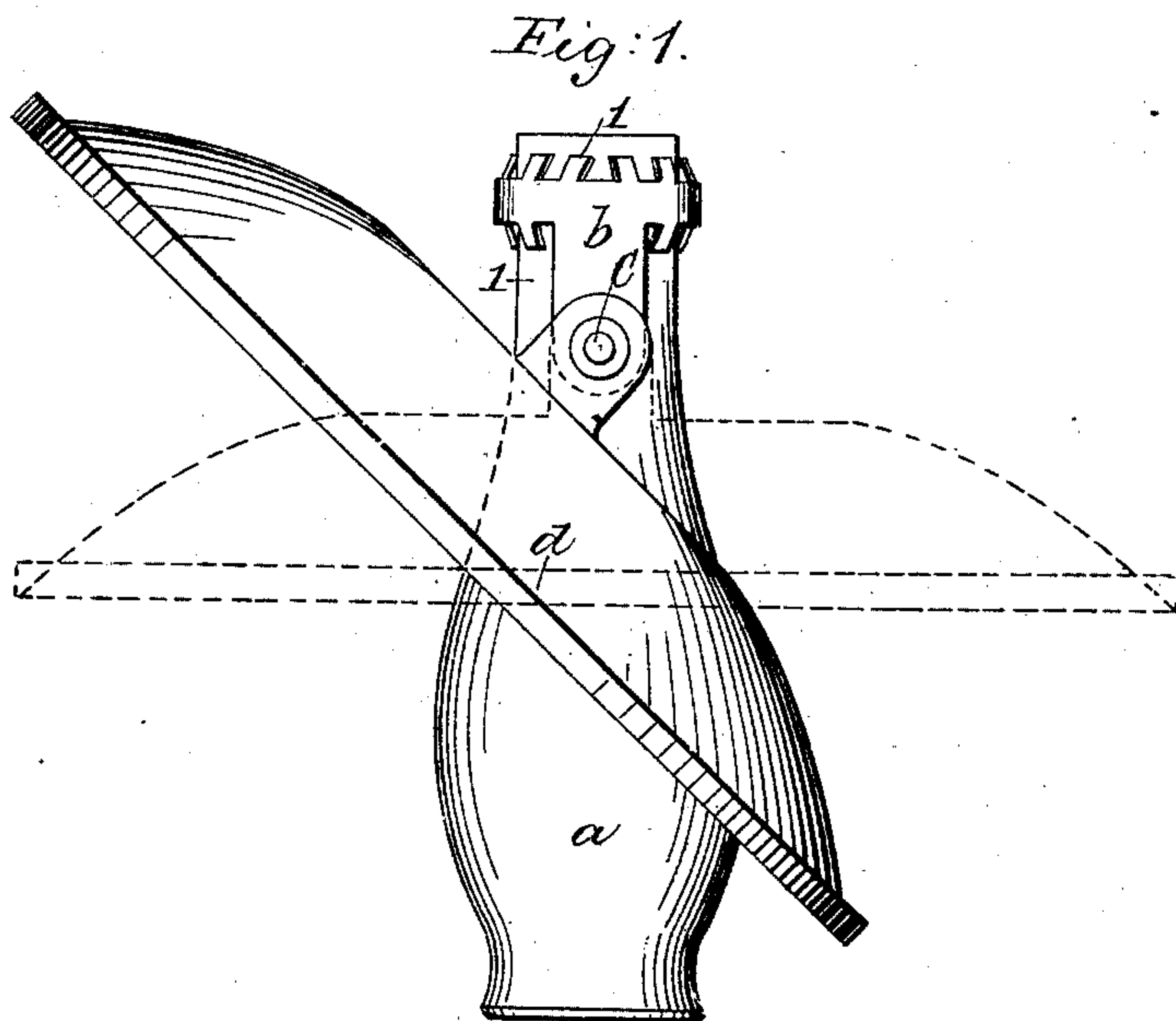


H. W. HAYDEN.
Reflector for Lamps.

No. 38,163.

Patented April 14, 1863.



Witnesses.
Elyahut. Buhl.
Theodor S. Buhl

Inventor.
H. W. Hayden

UNITED STATES PATENT OFFICE.

HIRAM W. HAYDEN, OF WATERBURY, CONNECTICUT.

IMPROVED REFLECTOR FOR LAMPS.

Specification forming part of Letters Patent No. **38,163**, dated April 14, 1863.

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, made, and applied to use a certain new and useful Improvement in Shades or Reflectors for Lamps; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawings, making part of this specification, wherein—

Figure 1 is a plan of my reflector, and Fig. 2 is a side view of the same.

The same parts are referred to by similar letters of reference.

Shades have heretofore been attached to lamp-chimneys by means of a metallic ring provided with springs to take the chimney. These shades act to screen the eyes, and also to reflect light downward upon objects surrounding the lamp. These shades can be raised or lowered on the chimney of the lamp, but cannot be set at an angle thereto for the purpose of directing the light in any particular way.

The nature of my said invention consists in a shade or reflector surrounding the lamp-chimney, in combination with a spring-ring and hinges, so that the said reflector or shade can be set at any desired angle to the chimney in order to throw the light off in any desired direction or to shade the eyes more or less, as required; and, in consequence of the shade being fitted so as to turn into an inclined position it does not project so much all around the lamp; hence the lamp can be set much closer to the wall when upon a mantel-piece, and if lighted while the shade or reflector is in this position, the room is much better lighted than where the shade surrounds the chimney.

In the drawings, *a* represents a glass chimney, which may be of any desired size or form.

b is a ring having projecting spring-strips 1 1 extending above and below it, and bent inward so as to take the chimney, the points only resting on the glass. This ring should be formed open, as at 2, in order that the ring may spring and fit varying sizes of chimneys. Ears extend up from opposite sides of this ring, and unite by rivets at *c c* with similar ears from the shade or reflector *d*, forming a hinge on each side, so that on the hinge thus formed the reflector can be turned to any desired angle of inclination with the chimney, or turned down horizontally, as represented by dotted lines. When in the latter position, the shade or reflector only acts to direct the light equally upon objects surrounding the lamp, but when set at an inclination the light is reflected in a given direction, so that a person can see at a greater distance from the lamp.

The shade or reflector may be of any suitable material, but when made of polished metal or lined with foil the light is much increased.

The ring *b* may be above the hinge *c* or below the same, as most convenient, and according to the height at which the reflector is desired.

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

A reflector or shade surrounding the lamp-chimney, in combination with the spring-ring and hinges, as set forth, so as to allow of the inclination of said shade or reflector, as specified.

In witness whereof I have hereunto set my signature this 25th day of February, 1863.

H. W. HAYDEN.

Witnesses:

ELIPHALET BUEL,
THEODORE S. BUEL.