

S. Spoor.  
Lamp.

N<sup>o</sup> 73664

Patented Jan. 21, 1868.

Fig. 1

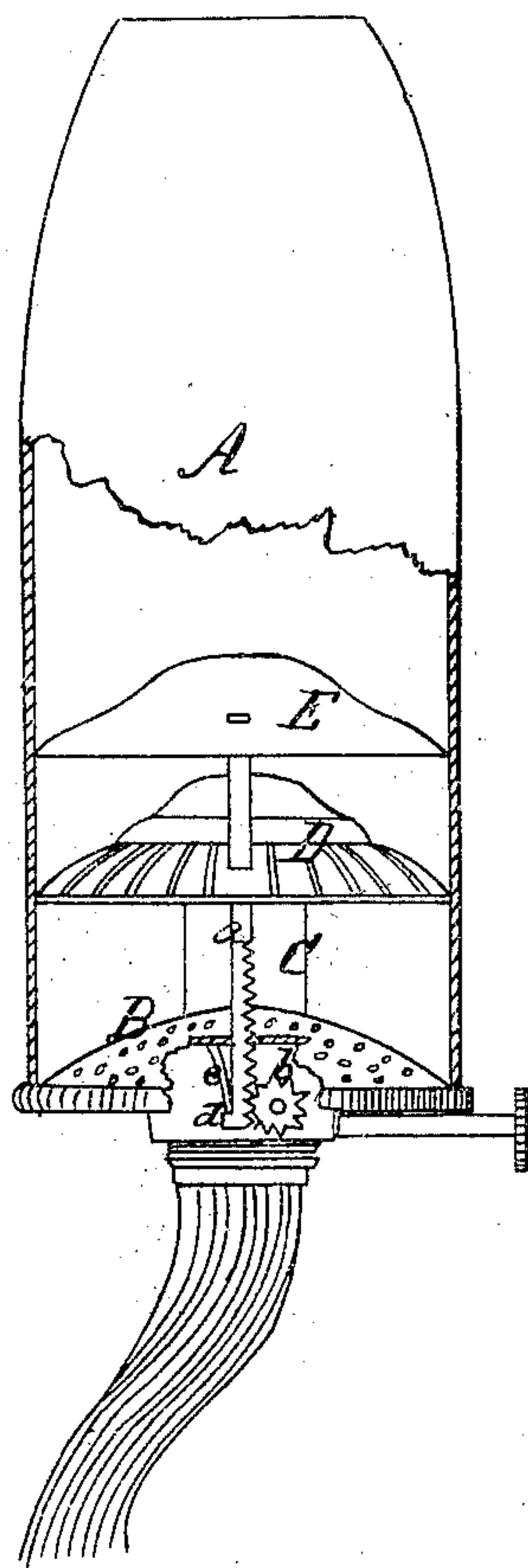
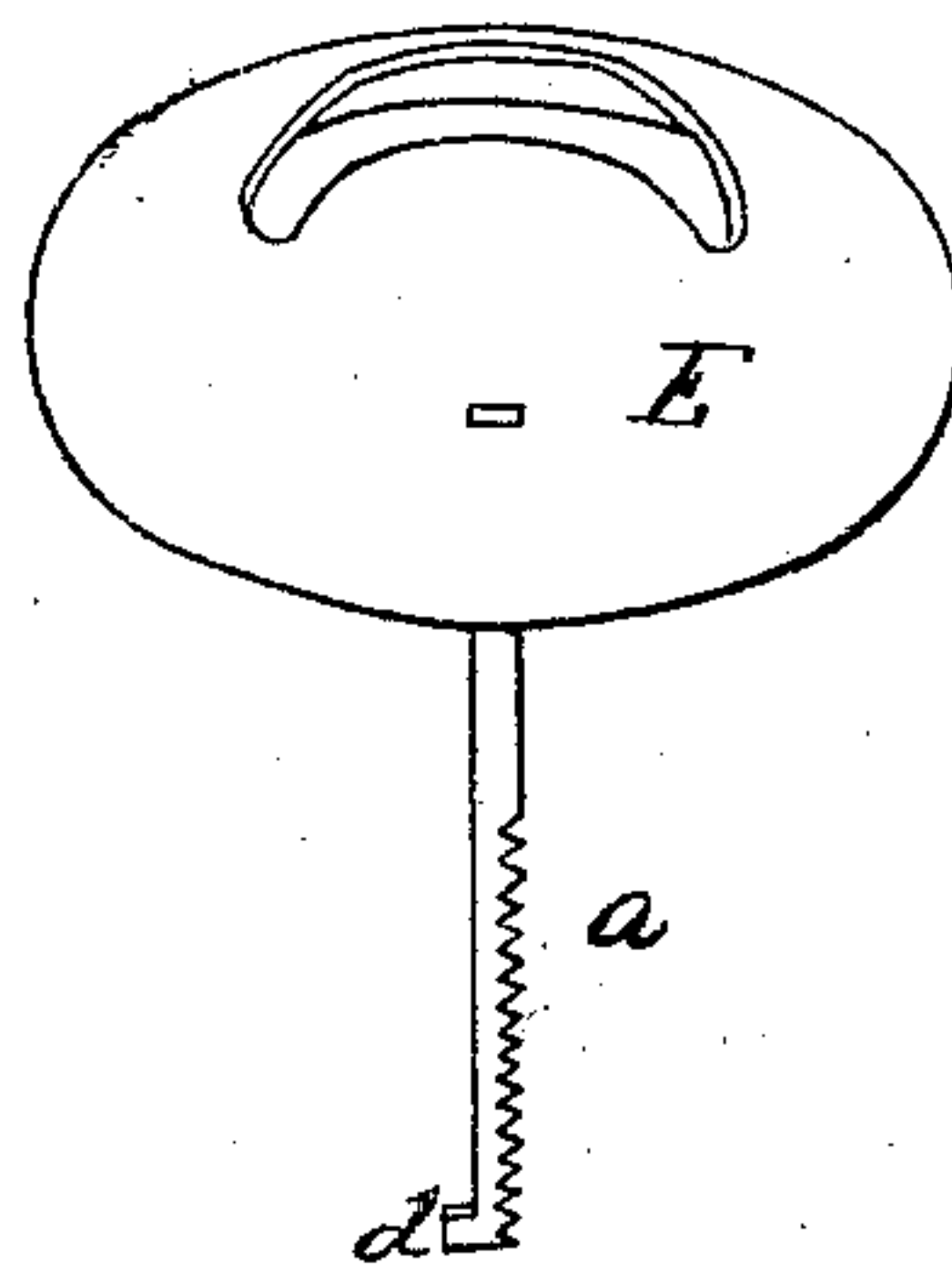


Fig. 2



Witnesses

J. A. Davis  
T. Stark

Inventor.

Stephen Spoor  
By J. Fraser & Co.  
Attys

# United States Patent Office.

STEPHEN SPOOR, OF PHELPS, NEW YORK.

*Letters Patent No. 73,664, dated January 21, 1868.*

## IMPROVEMENT IN LAMPS.

*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, STEPHEN SPOOR, of Phelps, in the county of Ontario, and State of New York, have invented a certain new and useful Improvement in Lamps; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is a sectional elevation of my improvement.

Figure 2, a perspective view of the shade detached.

Like letters of reference indicate corresponding parts in both figures.

My invention consists in a shade fitted over the cone or burner, inside the chimney, whereby the eyes are perfectly shielded, without the use of the cumbersome arrangement usually employed, attached on the outside of the chimney.

In the drawings, A indicates the chimney, B the perforated base-plate or cap, on which the chimney rests, C the wick-tube, and D the deflector or cone. These parts constitute an arrangement well known, to which I lay no claim. Over the deflector or cone is fitted a small shade, E, preferably of concavo-convex form, with a central opening to prevent obstruction of the draught above the blaze. This shade preferably slides up and down within the chimney. In that case the shade may be operated by any suitable arrangement, but I prefer that shown in the drawings, which consists of a cog-rack, *a*, attached thereto, driven by a spur-wheel, *b*, having a shaft projecting out to be operated by the fingers. The cog-rack may be held to the spur-wheel by a spring, *c*, which also acts as a stop for a nib or projection, *d*, of the end of the said cog-rack to strike at the extent of the up motion. The shade thus arranged, rests over the cone, and forms a perfect shield to the eyes, while at the same time the passage of light upward, as well as downward, is unobstructed, since the shade is centrally open at the top. This opening allows a free passage of the draught. When entirely down, the shade simply rests on top of the deflector or cone, and produces no shade at all. So it will be seen that the device may be used as a shade or not, at pleasure.

This shade is as effective in shielding the eyes as the ordinary large shade fitted outside the chimney. I avoid all such cumbersome and awkward attachments, and substitute one inside that is always in place, which is not liable to disarrangement or obstruction, and which is of the simplest and most effective character.

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

A shade, E, within the chimney A, arranged and operating substantially as and for the purposes herein set forth.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

STEPHEN SPOOR.

Witnesses:

R. F. OSGOOD,

J. A. DAVIS.