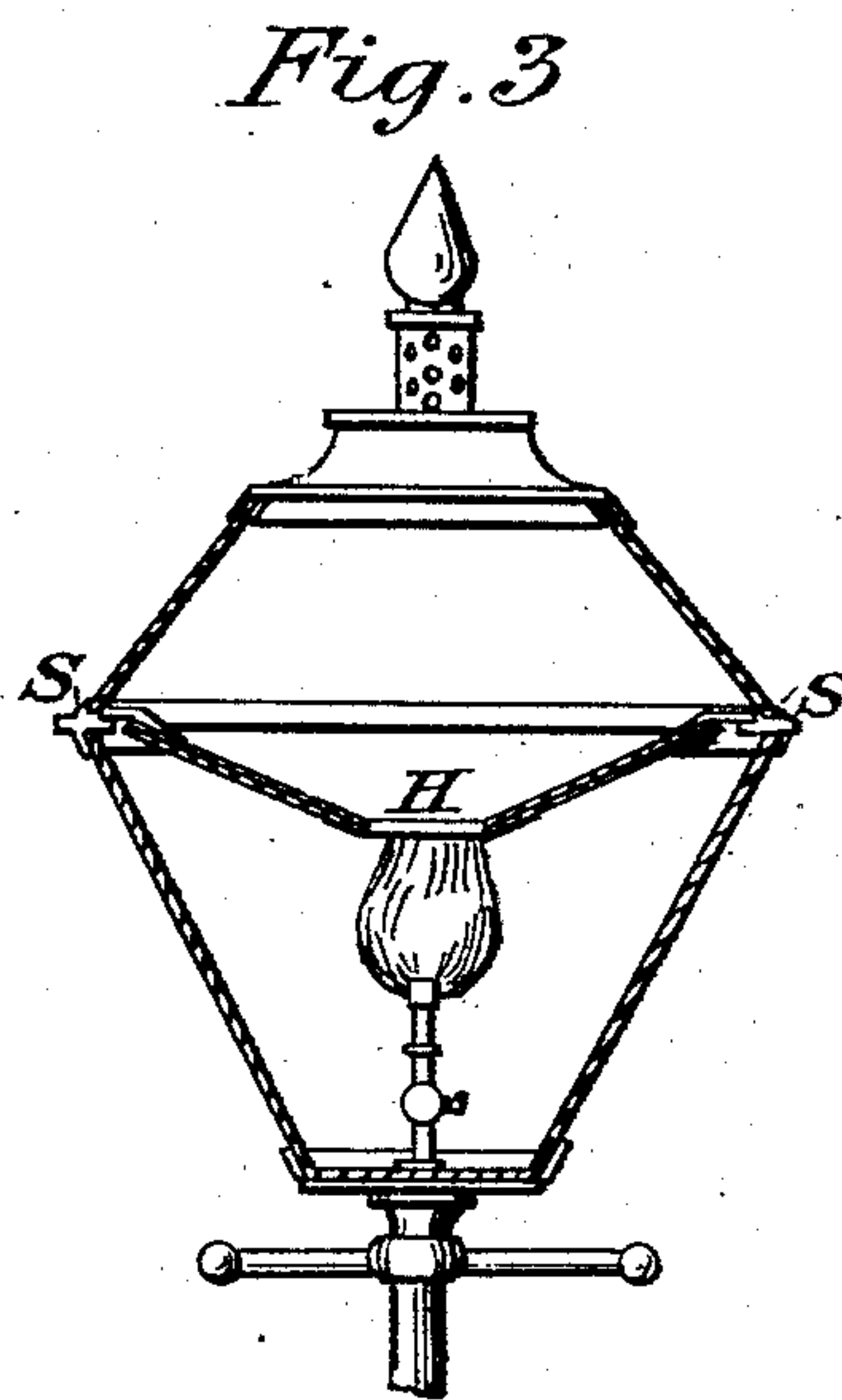
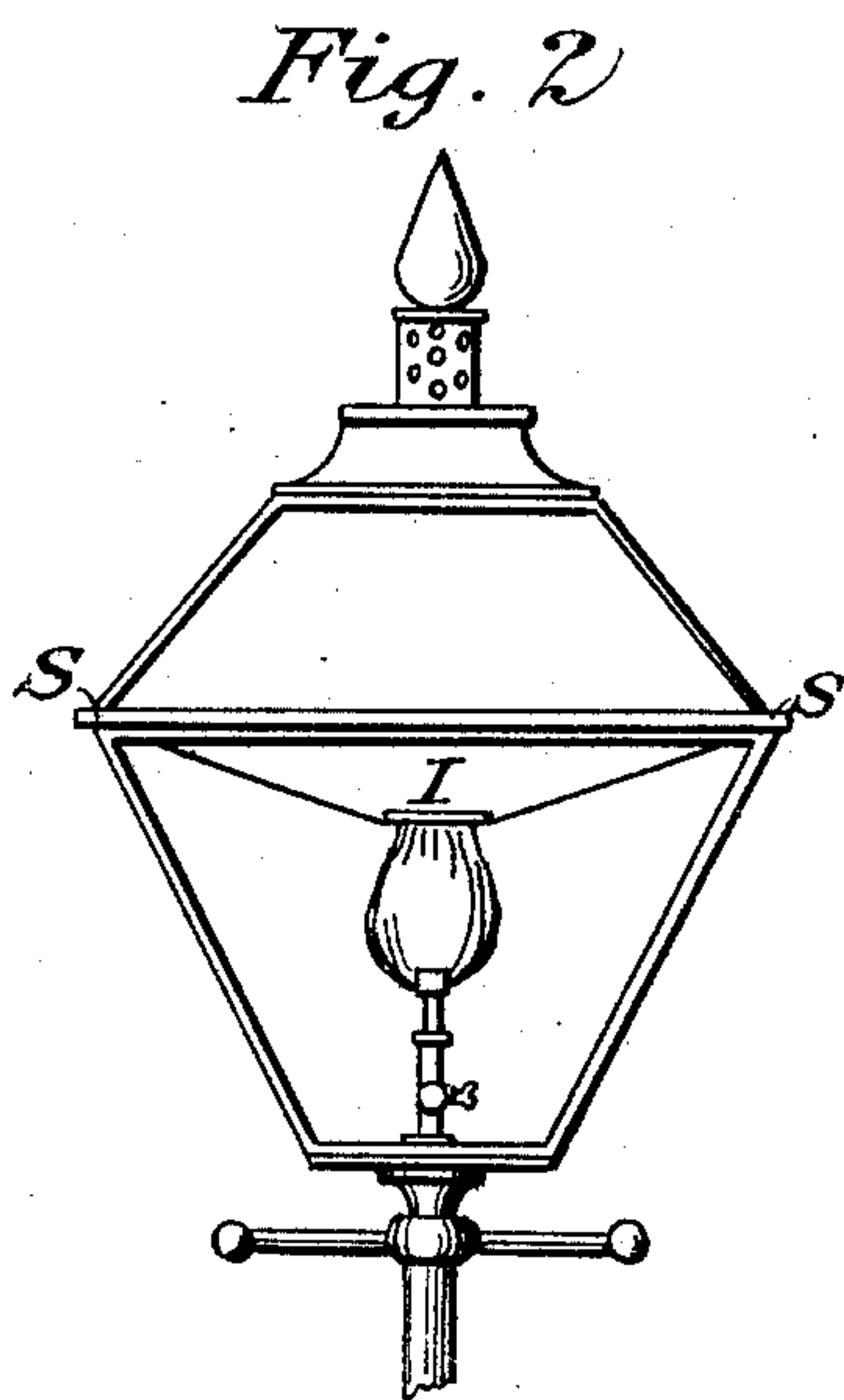
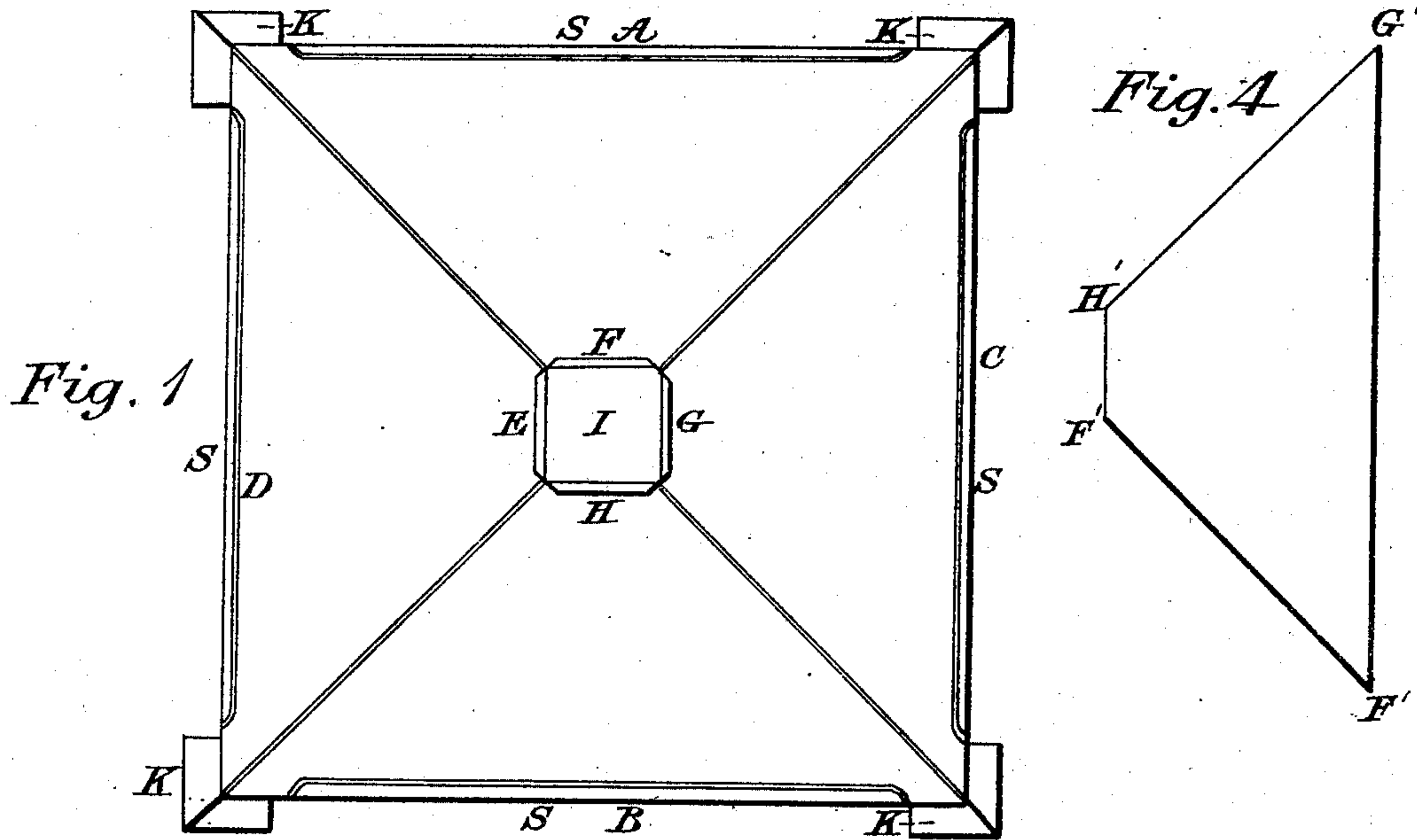


J. W. CREMIN.

Lamp Reflector.

No. 94,570.

Patented Sept 7, 1869.



Witnesses:

Geo. W. Scheide
Patrick G. Murray

Inventor:

Joseph W. Cremin

United States Patent Office.

JOSEPH W. CREMIN. OF NEW YORK, N. Y.

Letters Patent No. 94,570, dated September 7, 1869.

IMPROVEMENT IN REFLECTORS FOR STREET-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, JOSEPH W. CREMIN, of the city, county, and State of New York, have invented a new Reflector for Street-Lamps, and other lamps; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists of a reflector, composed of metal and glass, the form of which is the inverted frustum of a hollow pyramid, open at both ends, to be placed in street-lamps, over the flame.

The reflector can be used in all the street-lamps now in use, being inserted into the lamps through the door into its position over the flame, with the broad end fitting into the widest part of the lamp, and the narrow end lower down, placed over the flame.

The rays of light ascending through the upper part of the street-lamps have been hitherto lost; but by my reflector, these rays are reflected downward and outward.

Concave reflectors collect and concentrate the reflected light in a small space, but my reflector produces results that have not been hitherto attained in light from street-lamps.

Figure 1 is a plan view of the reflector with the reflecting-surface up.

Figure 2 is a front view of the reflector as situated in the street-lamp.

Figure 3 is a sectional view of fig. 2, taken through the centre of the lamp and reflector, showing the draughts S.

Figure 4 is the shape of one of the glasses for outside of reflector.

E' F' G' H', as shown in the drawing, indicate the form of the glass for one of the sides.

The frame is of metal, and the glasses are held on the outside by the flanges E F G H at the narrow end, and A B C D at the broad end, in fig. 3.

It will be seen, that turning down the flanges A B C D, to hold the glasses 1, 2, 3, 4, leaves a space or draught, S, through which the heated air escapes on each side, when the reflector is placed in the lamp.

The corners of the metal frame are strengthened by the piece K, which also serves the function of supporting the reflector in the lamp, in the position shown in fig. 4.

The reflector being composed of a metal frame and removable glasses, it is evident that a broken glass can be easily replaced without injury to the others.

I do not confine myself to glass in the construction of the reflector, as other suitable materials can be used.

The aperture I is for the escape of smoke and heated air, and may be of other form than that shown in the drawing, which would give the reflector the shape of a pyramid.

The main object of my invention is to produce a reflector for street-lamps which is cheap in construction, can be inserted in all the old street-lamps in use, thereby increasing the luminosity, by reflecting downward and outward the light, which has been heretofore lost, by ascending through the upper part of the lamp.

I believe I have thus shown the nature of my invention, so as to enable others to make and use the same; therefore,

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

The reflector, as herein described and shown, having the form of the inverted frustum of a pyramid, with the draughts at the sides, and the aperture through the centre.

JOSEPH W. CREMIN.

Witnesses:

J. W. COLLAMER,

JNO. D. PATTEN.