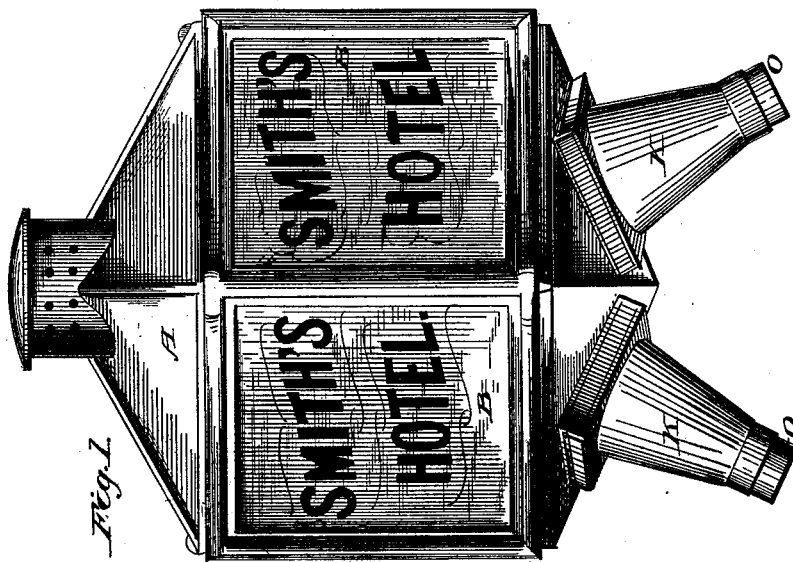
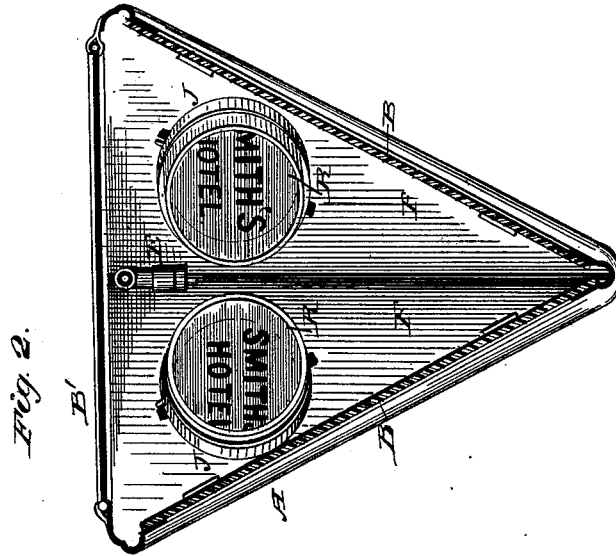


S. SMITH.

Advertising Attachment to Street-Lamps.

No. 213,785.

Patented April 1, 1879.



Witnesses;
Red. G. Dietrich
J. R. Little.

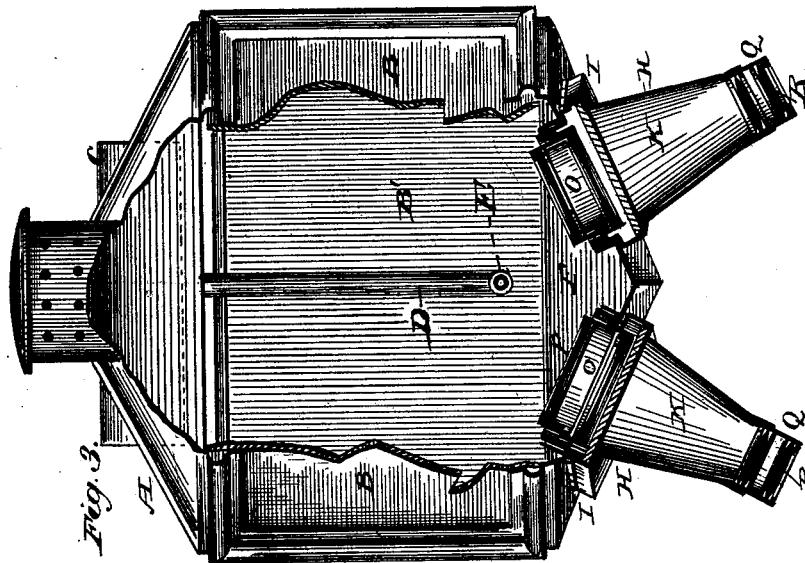
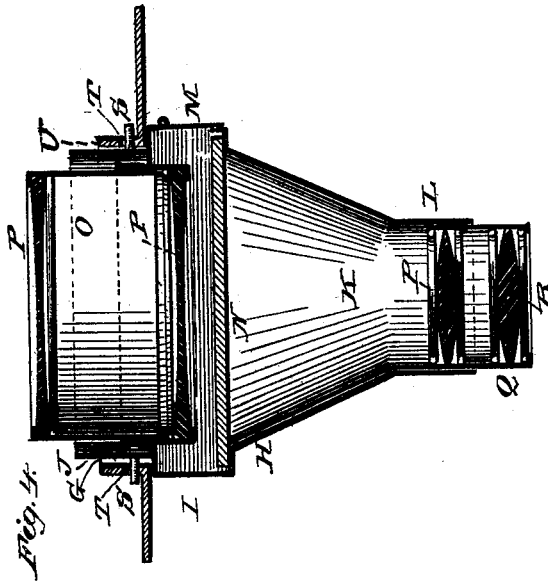
Inventor;
Samuel Smith,
By C. A. Snow & Co.
Attys.

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Advertising Attachment to Street-Lamps.

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Witnesses;
And G. Dietrich
J. R. Littell

Samuel Smith Inventor,
By A. Snow & Co.
 Attys.

UNITED STATES PATENT OFFICE.

SAMUEL SMITH, OF NEWCASTLE, PENNSYLVANIA.

IMPROVEMENT IN ADVERTISING ATTACHMENTS TO STREET-LAMPS.

Specification forming part of Letters Patent No. **213,785**, dated April 1, 1879; application filed February 15, 1879.

To all whom it may concern:

Be it known that I, SAMUEL SMITH, of Newcastle, in the county of Lawrence and State of Pennsylvania, have invented certain new and useful Improvements in Advertising Attachments to Street-Lamps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a front view, Fig. 2 is a horizontal cross-section, Fig. 3 is a vertical cross-section, and Fig. 4 is a sectional view, of one of the lens-holding tubes.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to street-lamps provided with lens attachments for reflecting upon the street or pavement such transparent signs as may be arranged in said attachments; and it consists in certain improvements in the construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings, A represents the lamp case or box, the transparent sides of which, B B, may be painted or provided with any desired signs. A door, B', furnishes access to the interior for the purpose of lighting or extinguishing the flame.

Gas, kerosene, or gasoline may be used for illuminating purposes. In the latter case a receptacle, C, arranged on top of case A, holds the fluid, which is fed through a tube, D, to a suitably-arranged burner, E.

The bottom of case A is bent so as to form several sections, F F, at suitable angles to the sides of the case. These sections—two or more in number—have each an opening, G, to receive a lens-holding tube, H. The latter consists of a box, I, having on its upper side a cylindrical tube, J, and on its lower side a conical or funnel-shaped tube, K, which latter terminates at its lower narrow end in a cylindrical tube, L. Box I is provided with a

cover, M, through which a transparent slide, N, having a suitable sign painted thereon, may be inserted into said box. A tube, O, having at each end a condensing-lens, P, is confined in the cylindrical tube J, and a similar tube, Q, equipped with magnifying-lenses R R, is confined in tube L, where it may be slid to and adjusted at any desired point, so as to increase or diminish the size of the reflection thrown.

I prefer to construct the tubes O Q in such a manner as to render the lenses readily detachable for the purpose of cleaning the same.

The cylinder J of the lens-holding tube is provided on opposite sides with studs S, which enter angular slots T in a rim, U, surrounding the opening G in the lamp-case, thus holding the tube H securely in position, but in such a manner that it may be readily detached whenever desired.

The operation of my invention, which acts somewhat on the principle of a magic lantern, will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed.

As an advertising medium my invention is valuable, being simple and cheap. The transparent sign-slides may be readily taken out and others substituted, and they may be produced at a small cost.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The lens-holding tube H, consisting of the box I, cylindrical tube J, and conical tube K, terminating in a cylindrical tube, L, in combination with the tube O, having condensing-lenses P P, and sliding tube Q, having magnifying-lenses R R, substantially as described, for the purpose herein set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

SAMUEL SMITH.

Witnesses:

D. M. CUBBISON,
BEN E. STEPHENSON.