

(No Model.)

2 Sheets—Sheet 1.

O. KNIPE.
Multiple Wick Lamp.

No. 242,938.

Patented June 14, 1881.

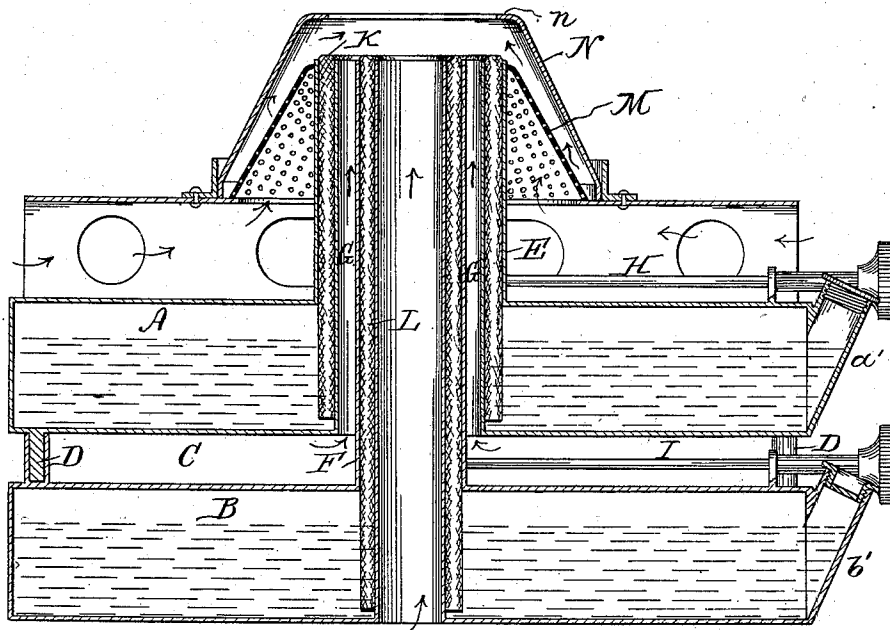


Fig. 1

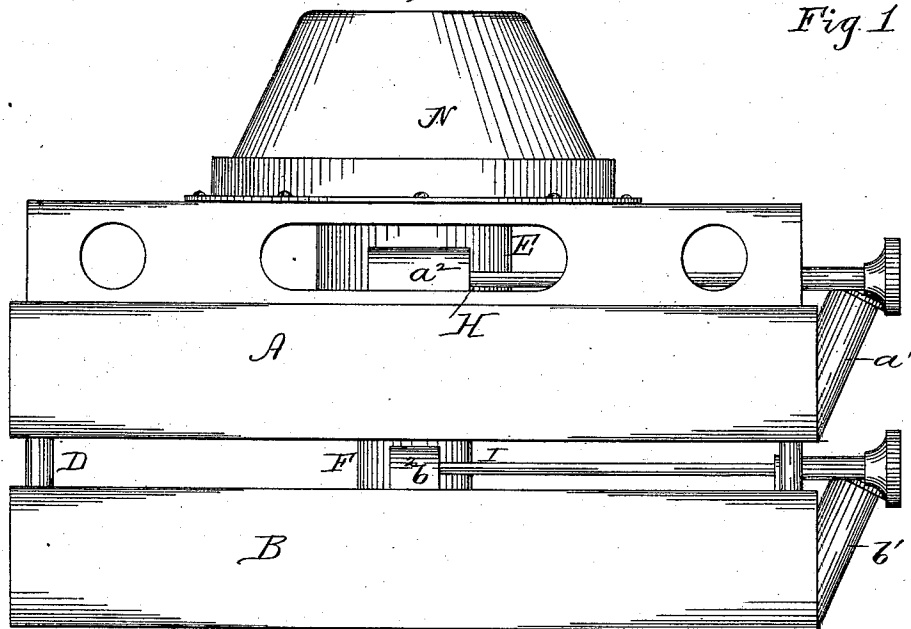


Fig. 2

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By Connolly Bros.,

ATTORNEYS.

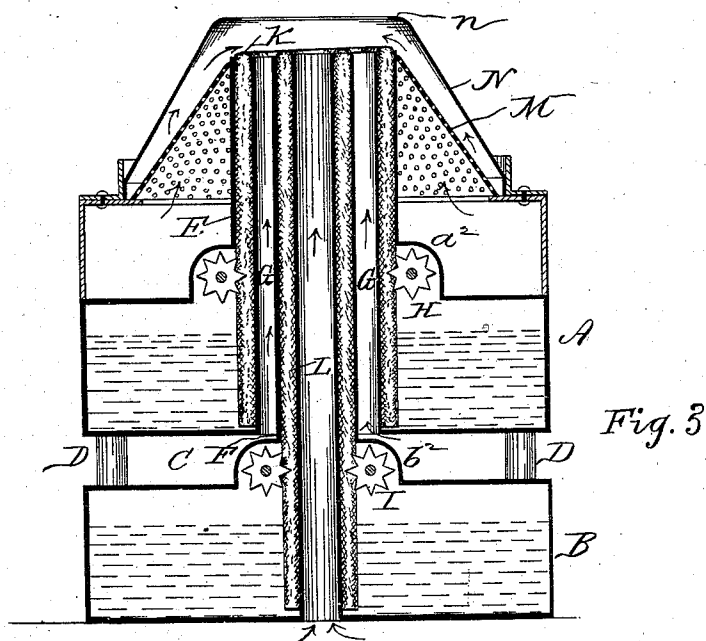
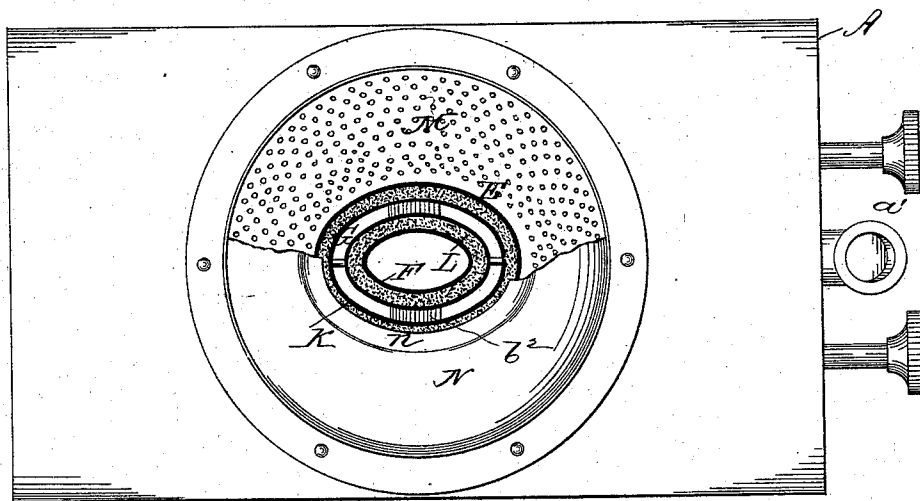
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2 Sheets—Sheet 2.

O. KNIPE.
Multiple Wick Lamp.

No. 242,938.

Patented June 14, 1881.



WITNESSES:

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INVENTOR,

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UNITED STATES PATENT OFFICE.

OSCAR KNIPE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO SAMUEL
L. FOX, OF SAME PLACE.

MULTIPLE-WICK LAMP.

SPECIFICATION forming part of Letters Patent No. 242,938, dated June 14, 1881.

Application filed March 19, 1881. (No model.)

To all whom it may concern:

Be it known that I, OSCAR KNIPE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Multiple-Wick Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a vertical longitudinal section; Fig. 2, a side elevation; Fig. 3, a vertical transverse section; and Fig. 4, a plan, partly in section.

My invention has relation to that class of lamps in which multiple concentric wicks are employed; and my improvements have for their object to provide a lamp of this class which shall be specially adapted to the employment of hydrocarbon fluid as the illuminator, and to use in connection with magic lanterns, where a flame of great intensity and highest purity and whiteness is essential for the production of the best effects.

My improvements consist in the peculiar construction and combination of parts hereinafter fully set forth, having reference, principally, to the following points: first, to the combination of two concentric wick-tubes of unequal lengths and having independent means for separately adjusting the wicks, said means of adjustment being in different horizontal planes; second, to the combination of two separate and independent oil-reservoirs, one superposed upon the other, each having its own wick-tube and wick-adjusters, said wick-tubes being concentric, and having a draft tube or channel between them, as well as a central and external draft.

Referring to the accompanying drawings, A and B indicate two separate and independent oil or fluid reservoirs, the former being sustained above the latter, leaving a clear space, C, between them by means of columns D D. Each reservoir is provided with an annular wick-tube, E and F, respectively, said tubes being concentric with each other, of unequal

diameters and lengths and terminating at the top in the same plane.

G represents the draft-space between said tubes, which receives its supply of air through the space C between the reservoirs A B.

H and I represent the wick-adjusters, whereby the wicks K and L may be separately adjusted. Said adjusters are shown in the form of ratchet-wheels; but any other usual or convenient equivalent may be substituted therefor.

Each of the reservoirs has its own filling-neck, (shown at a' and b' , respectively.)

M is a perforated dome, through which air passes to supply the exterior wick, the draft being deflected by a conical cowl, N, having a horizontal flange, n .

The reservoirs have each an offset, (shown at a^2 b^2), affording spaces for the reception of the ratchet-wheels or wick-adjusters. These latter, being in different planes, permit the employment of seamless wicks, whereas if they were in the same plane the outer wick would necessarily have to be split for the passage of the shaft of the ratchet or adjuster for the inner wick.

I have described the wick-tubes as being ovaliform, and this form I prefer; but it is obvious that they may be a true circle, if desired, and the other features of my invention be still retained. Using the ovaliform wick-tubes, in practice the lamp is set so that the smaller axes of the oval is parallel with the front of the lamp and opposite to the adjusting-wheels.

The lamp is designed for use in connection with a suitable chimney of glass, metal, or other material, as may be required.

What I claim as my invention is as follows:

1. In a multiple-wick lamp or burner, the combination of two concentric wick-tubes of unequal lengths, and having ratchets or equivalent means for separately adjusting the wicks of said tubes, said means of adjustment being in different planes, substantially as shown and set forth.

2. A multiple-wick lamp, comprising, in combination, the following parts: two separate

and independent reservoirs, one superposed
on the other, two concentric wick-tubes of
unequal lengths, terminating at the top in the
same plane, with a draft-space between them,
5 and independent means for separately adjust-
ing the wicks of said tubes, substantially as
shown and set forth.

In testimony that I claim the foregoing I
have hereunto set my hand this 18th day of
March, 1881.

OSCAR KNIPE.

Witnesses:

WALTER S. GIBSON,
M. D. CONNOLLY.