G. A. BEIDLER.

Lamp.

No. 166,582. Patented Aug. 10, 1875.

Fig. 2.

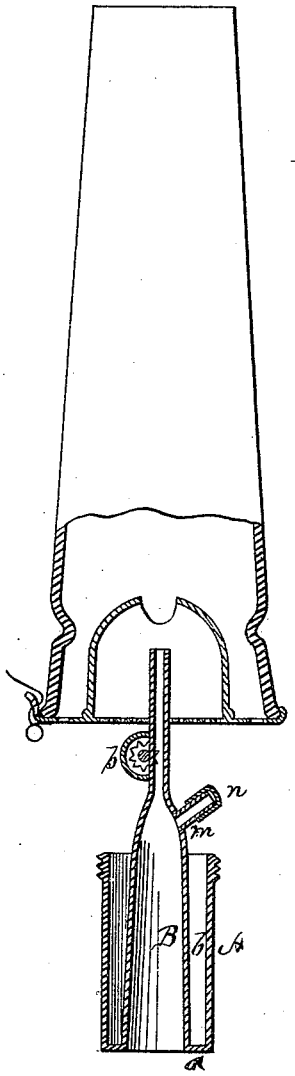
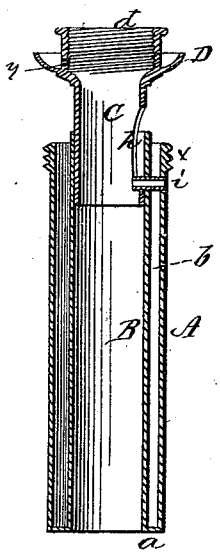


Fig. 1.



WITNESSES

Henry N. Miller

C. L. Emerk.

By

INVENTOR

George A. Beidler

Alexander Thomson

Attorney

UNITED STATES PATENT OFFICE.

GEORGE A. BEIDLER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **166,582**, dated August 10, 1875; application filed June 18, 1875.

To all whom it may concern:

Be it known that I, GEORGE A. BEIDLER, of Philadelphia, in the county of Philadelphia and in the State of Pennsylvania, have invented certain new and useful Improvements in Lamps; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a device interposed between the burner and oil-reservoir, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal section of my invention. Fig. 2 is a longitudinal section, showing a modification of the same.

A and B represent two metal tubes placed one within the other, and united by an annular plate, *a*, or otherwise, at their lower ends, forming between them an annular elongated chamber, *b*. The exterior tube A is, around its upper end, formed with screw-threads *x* on the outside, so as to screw into the usual collar on the oil-reservoir for a lamp. Within the upper end of the inner tube B is placed a short tube, C, provided at its upper end with a female screw-collar, *d*, and an exterior drip-cup, D, as shown. In the side of the movable tube C is an aperture, *h*, of suitable size, and a vent-tube, *i*, is passed, through the two tubes or shells A B, into said aperture *h*. This tube *i* forms a stop for the movement of the movable tube C, and also allows the gases generated in the reservoir to pass into the inside of the tube C and up to the burner to be consumed. The double tube A B being fastened in the oil-reservoir as described, the burner, of any ordinary shape, is screwed into the collar *d*. Any oil collected in the drip-cup D will pass, through a hole, *y*, made in said collar, into the oil-reservoir.

For use, the tube C is pressed down into the interior tube B, and the burner is then adjusted in the ordinary manner. The air-chamber *b*, formed by and between the two tubes or shells A B, prevents the oil in the reservoir from becoming heated, and thus prevents the generation of gas to any extent. When it is desired to fill the lamp the tube C is pulled upward as far as it will go, when a portion of the aperture *h* will become uncovered sufficiently to admit the insertion of the spout of an oil-can for filling the lamp.

In Fig. 2 I have shown the inner tube B of the double tube extended upward and flattened to form the wick-tube, in which case a short nozzle, *m*, is formed thereon for filling, which nozzle is closed by a cap, *n*. On the side of the wick-tube thus formed is a casing, *p*, containing the ordinary wick-raising mechanism; or, if desired, the screw-collar *d* and drip-cup D may be formed on or attached to the upper end of the interior tube B, instead of using the movable tube C, and in such case, also, a nozzle will be provided for filling. When the tube B is extended and flattened to form the wick-tube, as shown in Fig. 2, the ordinary cone and perforated plate may be placed thereon to form the complete burner, in which case the perforated plate will be formed with suitable guides to fit around the edges of the wick-tube. To such modification I lay no claim, however, at this time, as I am aware it is a subject of separate application.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the double tube A B, sliding tube C, and screw-collar *d*, for the purposes described.

2. The combination of the double tube A B, sliding tube C, with aperture *h*, and vent-tube *i*, as and for the purposes herein set forth.

3. The combination of the double tube A B, sliding tube C, collar *d*, with hole *y*, and drip-cup D, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of June, 1875.

GEO. A. BEIDLER.

Witnesses:

W. A. SKINKLE,

F. L. OURAND.