

G. A. BEIDLER
LANTERNS.

No. 195,744.

Patented Oct. 2, 1877.

Fig. 1.

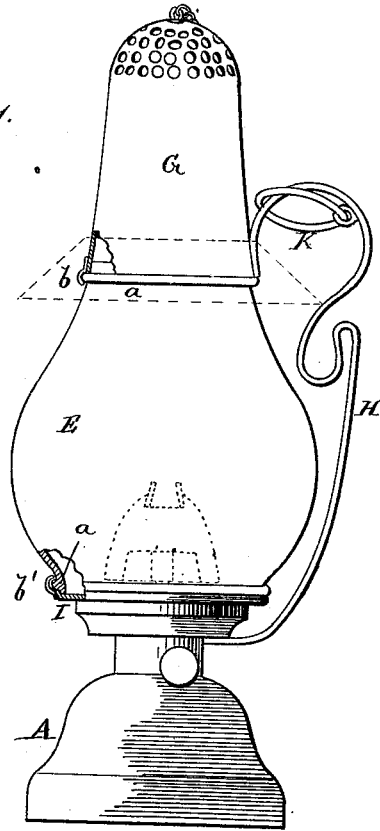


Fig. 2.

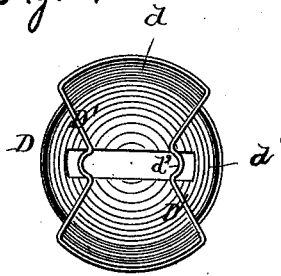
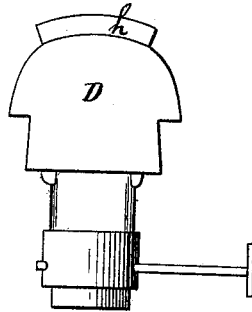


Fig. 3.



WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

GEORGE A. BEIDLER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. **195,744**, dated October 2, 1877; application filed February 24, 1877.

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 Lamp, Lantern, and Burner; 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 lantern and burner, 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 side elevation of a lantern embodying my invention. Fig. 2 is a bottom view of the dome or cap of the burner. Fig. 3 is a side view of the complete burner.

A represents the oil-reservoir or base of the lantern, into the top of which is screwed the drum B of the wick-tube C. D is the dome or cap of the burner; E, the globe, and G the top of the lantern.

The top and base of the lantern are connected on one side by means of a single handle, H, the upper end of which is fastened to the top G, and the lower end to the burner or base of the lantern, as may be deemed most advantageous.

The handle H is made of such material and bent in such form as to constitute a spring connection between the top and bottom of the lantern for the purpose of holding the globe E in its place.

The globe E is, around both ends, provided with an exterior bead, *a*, and on the lower edge of the top G, on the side opposite the handle, is a catch, *b*, to grasp the bead at the upper end of the globe. A similar catch, *b'*, is formed on or attached to the globe-rest I on the burner, for grasping the lower bead *a*, by which means the globe is held still more securely in its place.

On the upper portion of the handle H I have applied a ring, K, for convenience in hanging up the lantern, or I may make a slot in the handle for the passage of the head of a screw or nail.

The wick-tube C is secured in the usual drum B, which is screwed into the reservoir A, and within said drum are the ordinary wick-raisers *e e*.

The cap or dome D of the burner is made of a single piece of metal, spun or otherwise formed of the proper shape, and the lower portion D', on opposite sides, is slit horizontally and bent inward, thus forming air-passages *d' d'*, at the edges of the wick-tube, as well as the passages *d d* at the sides thereof. In the centers of the turned-in portions D' are formed grooves *d''* to slide on the wick-tube and hold the cap thereon, it being supported by means of projections *x x* formed on or attached to the wick-tube.

Between the wick-tube and the adjacent metal of the cap suitable non-conducting material may be inserted to prevent the tube from heating, or additional strips or pieces of metal may be fastened to the cap to form the guides for the wick-tube.

A sheet-metal reflector, L, may be attached to the lower end of the top G, as shown by dotted lines in Fig. 1, which reflector there also protects the globe from rain.

On each side of the wick-opening in the cap D is a flange, *h*, for increasing the flame by concentrating the air upon the flame. Suitable wire guards may be used outside of the globe E, if desired.

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

1. In a lantern, the spring-handle H, connecting the top and base of the lantern, for the purposes herein set forth.
2. The combination, in a lantern, of the base, the top, the single handle, the globe E, with beads *a a* around its ends, and the catches *b b'* formed on or attached to the top and base, respectively, substantially as and for the purposes herein set forth.
3. The cap or dome D, formed of a single

piece of metal, and having, on opposite sides, a portion, D', of the metal bent inward, substantially as and for the purposes herein set forth.

4. The cap or dome D, formed of a single piece of metal, and having, on opposite sides, a portion, D', of the metal bent inward, and provided with the lips or flanges *h h*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of February, 1877.

GEO. A. BEIDLER.

Witnesses:

FRANK GALT,
HENRY N. MILLER.