

L. F. BETTS.
Lantern.

No. 160,744.

Patented March 16, 1875.

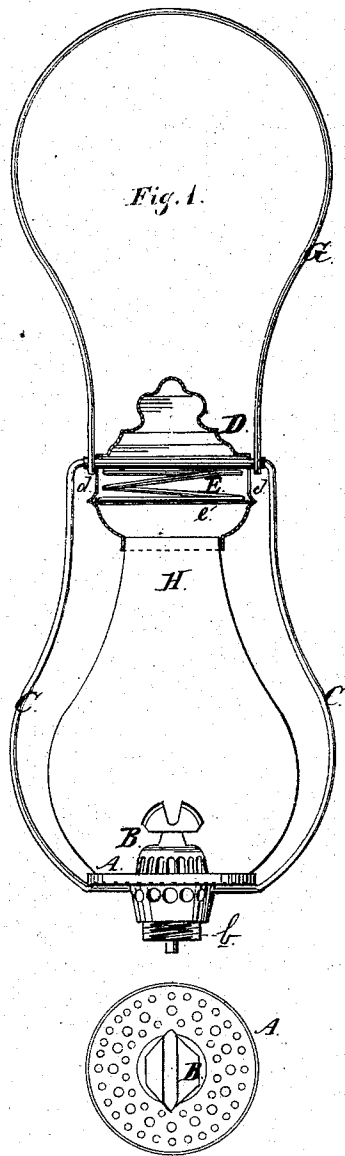


Fig. 1.

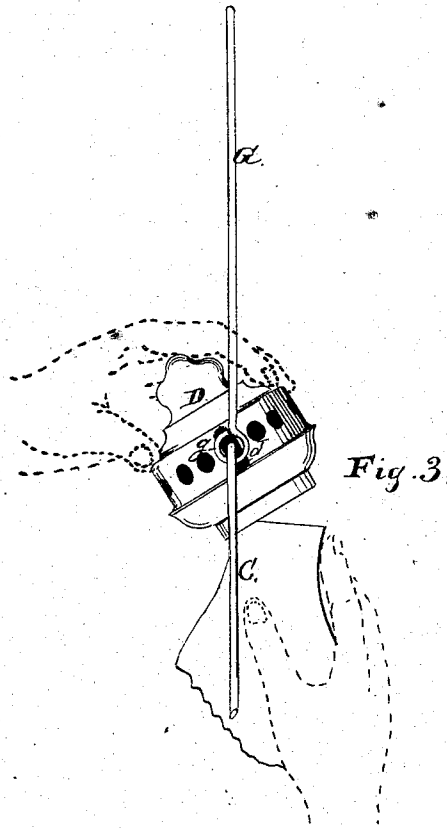


Fig. 3.

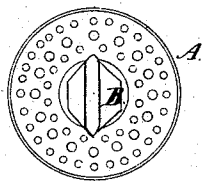


Fig. 2.

Witnesses:

Edw. S. Evans.
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Inventor:

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UNITED STATES PATENT OFFICE.

LEWIS F. BETTS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT
TO JOSEPH F. DENNIS AND HENRY N. WHEELER, OF SAME PLACE.

IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. **160,744**, dated March 16, 1875; application filed
May 25, 1874.

To all whom it may concern:

Be it known that I, LEWIS F. BETTS, of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Lantersns, of which the following is a specification:

The nature of this invention will fully appear from the following description and claims:

In the accompanying drawing, which forms a part of this specification, Figure 1 represents an elevation of the entire lantern, showing the dome in section. Fig. 2 is a plan view of the perforated plate and burner; and Fig. 3 is a view of the top part of the lantern, showing the manner of removing the globe.

In the said drawing, A represents the perforated plate attached to the burner B, which is complete, consisting of a cone, wick-tube, &c., and the screw-tube *b*, so that it may be applied to any common kerosene house-lamp. To this base, formed of plate and burner, are attached the guard-wires C C, which enter the dome D through the slots *d* at each side, their upper extremities resting upon the spring E within the dome. Said spring in turn rests upon a ledge within the dome or upon the perforated partition *e*. The bail G is looped at its ends with eyes *g*, which encircle the guard-wires at their bending previous to their entry into the dome.

The result of this construction, it will be seen, is that a constant pressure is exerted by the spring to force the dome down upon the globe H, said globe resting below upon the perforated plate. In another way of stating it, the spring draws up the guard-wires, which draw up the perforated globe-supporting plate, and hold the globe firmly into the dome. The dome may be raised the full length of the slots *d*, and partially revolved on the horizontal parts of the guard-wires, as an axis, so that the globe can be easily removed, as indicated

at Fig. 3. The bail G being connected to the guard-wires the support in carrying is from the hand directly to the base.

The lantern thus made is extremely cheap and convenient. It is complete and ready for sale without any oil-pot, as it may be applied to any house-lamp by removing simply the burner of the house-lamp and screwing the lantern in its place. This lantern possesses the advantages in respect to the easy removal of the globe, and subsequent retention in only two parts possessed by the hinge-top lantern, so largely in use without its expensive construction.

Having described my invention, I claim—

1. In combination, the slotted dome D with the spring E inside, and the guard-wires C C, having their upper ends resting on top of said spring, substantially as specified.

2. The dome D, constructed with the shoulder *e* to receive the bottom of the spring E, and side slots *d* to admit the guard-wires C C, combined with said wires and spring.

3. The guard-wires C C, having their ends connected together, passing through the dome D and secured to the lower frame of the lantern, combined with said dome D, provided with slots *d* to admit said wires, and a spring, E, below said guard-wire, as set forth.

4. In a lantern constructed with the guard-wires C C, rigidly secured at their lower ends to the plate A, upon which the burner B *b* is mounted, a dome, D, with vertical slots to let the guard-wires pass through a spring, E, inside said dome, and operating against said guard-wire to keep said dome depressed, and a bail, G, attached to said guard-wires, combined as set forth.

LEWIS F. BETTS.

Witnesses:

HEINRICH F. BRUNS,
EDW. S. EVARTS.