

(No Model.)

J. Z. STONE & L. E. LING.

DARK LANTERN.

No. 257,191.

Patented May 2, 1882.

Fig. 1.

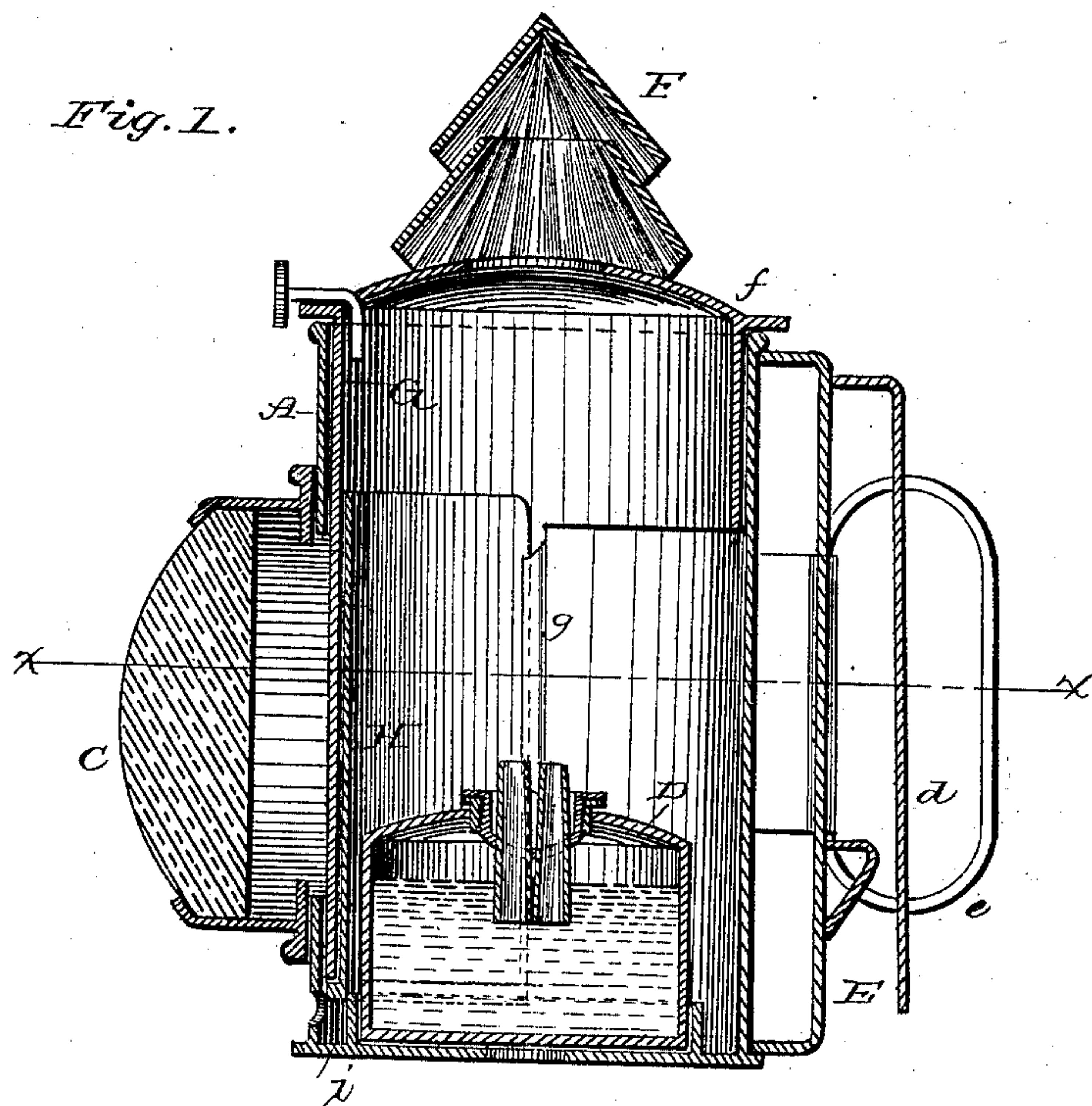
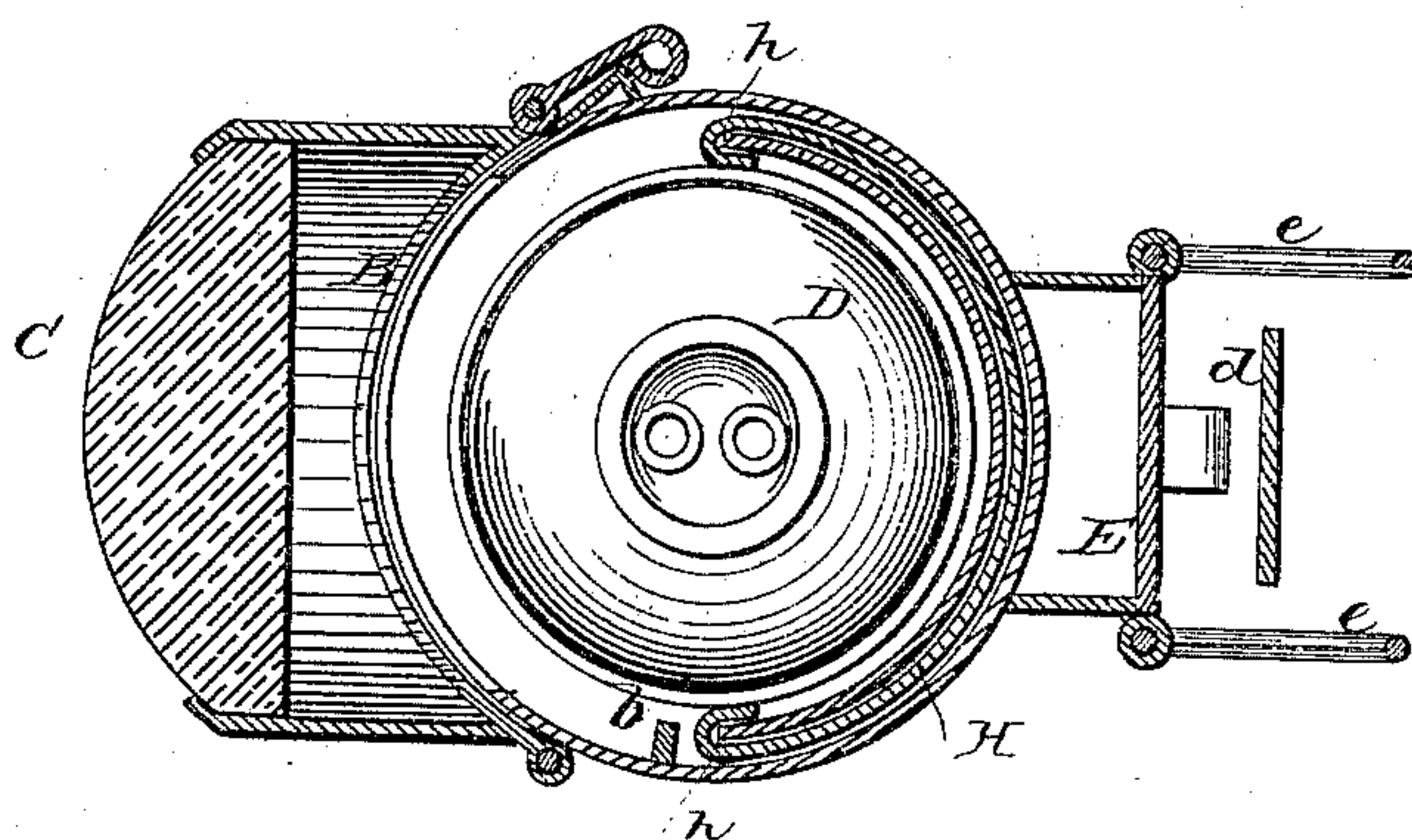


Fig. 2.



WITNESSES:

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JAMES Z. STONE AND LEWIS E. LING, OF BLOOMINGTON, ILLINOIS.

DARK-LANTERN.

SPECIFICATION forming part of Letters Patent No. 257,191, dated May 2, 1882.

Application filed March 23, 1882. (No model.)

To all whom it may concern:

Be it known that we, JAMES Z. STONE and LEWIS E. LING, both of Bloomington, in the county of McLean, and in the State of Illinois, have invented certain new and useful Improvements in Dark-Lanterns; and we 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, and in which—

Figure 1 represents a section through our improved lantern; Fig. 2, a horizontal section through the line *x x*, Fig. 1.

This invention relates to certain new and useful improvements in lanterns, and has for its object the production of a lantern whereby when the reflector loses its power of reflection (which very often occurs in the class denominated "bull's-eye" or "dark" lanterns) the old reflector can be easily and readily removed and replaced by a new one, with but little trouble and at a very low cost; and to this end the invention consists in novel features of construction and combination and arrangement of parts, all as will be hereinafter fully described, and set forth in the claims hereto annexed.

In the drawings, A represents the usual cylindrical case of a lantern, and B the hinged door, which, in the present case, is provided with the usual bull's-eye or lens, C.

D represents the usual lamp, arranged in the lower portion of the case, and E a back support, to which are connected pivoted handles *e e*, by which it may be carried, and also a spring-clasp, *d*, by which it may be attached to a waist-belt.

F represents a double-shaped cowl or chimney attached to a removable cover, *f*, to which is secured the dark-slide G, which is turned around by turning the cover, a stop, *b*, limiting its rotary movement, as usual in this class of lanterns.

The dark-slide is provided with flanges *h h*, turned inward to form vertical grooves for the reception of the removable reflector H, which is inserted therein from the bottom of the dark-slide and prevented from passing too far upward by a bead, *i*, formed on its lower end, engaging the lower end of the dark-slide. By having the dark-slide connected to a removable cap of cover it can be vertically adjusted

and removed therefrom, and then the reflector easily and readily removed therefrom and replaced by a new reflector at a cost of a very few cents.

Generally lamps of this class become worthless when the reflector loses its brilliancy, which usually occurs after a few months' use, while all other parts of the lantern would last for years.

When the reflector in our improved lantern becomes worthless, instead of throwing the lantern away, the reflector can be readily replaced by a new one.

The advantages of our improved lantern being so apparent, further description is deemed unnecessary, except to state that by its construction the reflector and interior of the lantern can be more easily cleaned on account of the back-slide and reflector being so easily and readily removed.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a lantern, the combination, with the case A, of a removable dark-slide provided with a removable reflector, substantially as and for the purpose specified.

2. In a lantern, the combination, with the case A, of a removable cover, a dark-slide connected thereto, and carrying a removable reflector, substantially as and for the purpose specified.

3. In a lantern, the combination, with the case, of a removable dark-slide provided with side grooves for the reception of a removable reflector, substantially in the manner as and for the purpose specified.

4. In a lantern, the combination, with the case, of a removable cover carrying the cowl or chimney, and the dark-slide and a reflector removably connected to said dark-slide, all substantially in the manner as and for the purpose specified.

In testimony that we claim the foregoing we have hereunto set our hands this 25th day of February, 1882.

JAMES Z. STONE.
LEWIS E. LING.

Witnesses:

THOS. SLADE,
S. R. GRIFFITH.