

W. WESTLAKE.

Lantern.

No. 94,535.

Patented Sept. 7, 1869.

Fig. 1

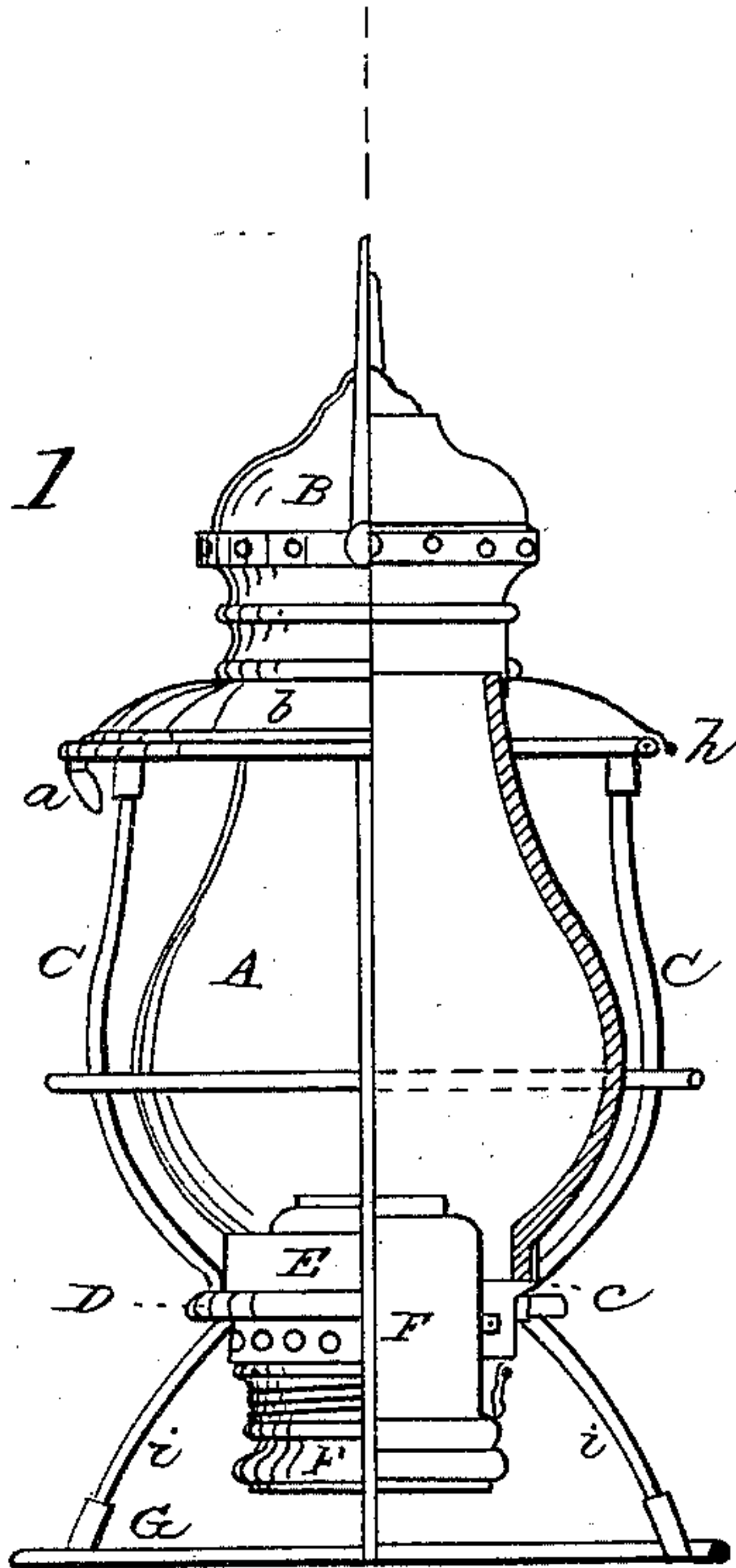


Fig. 2

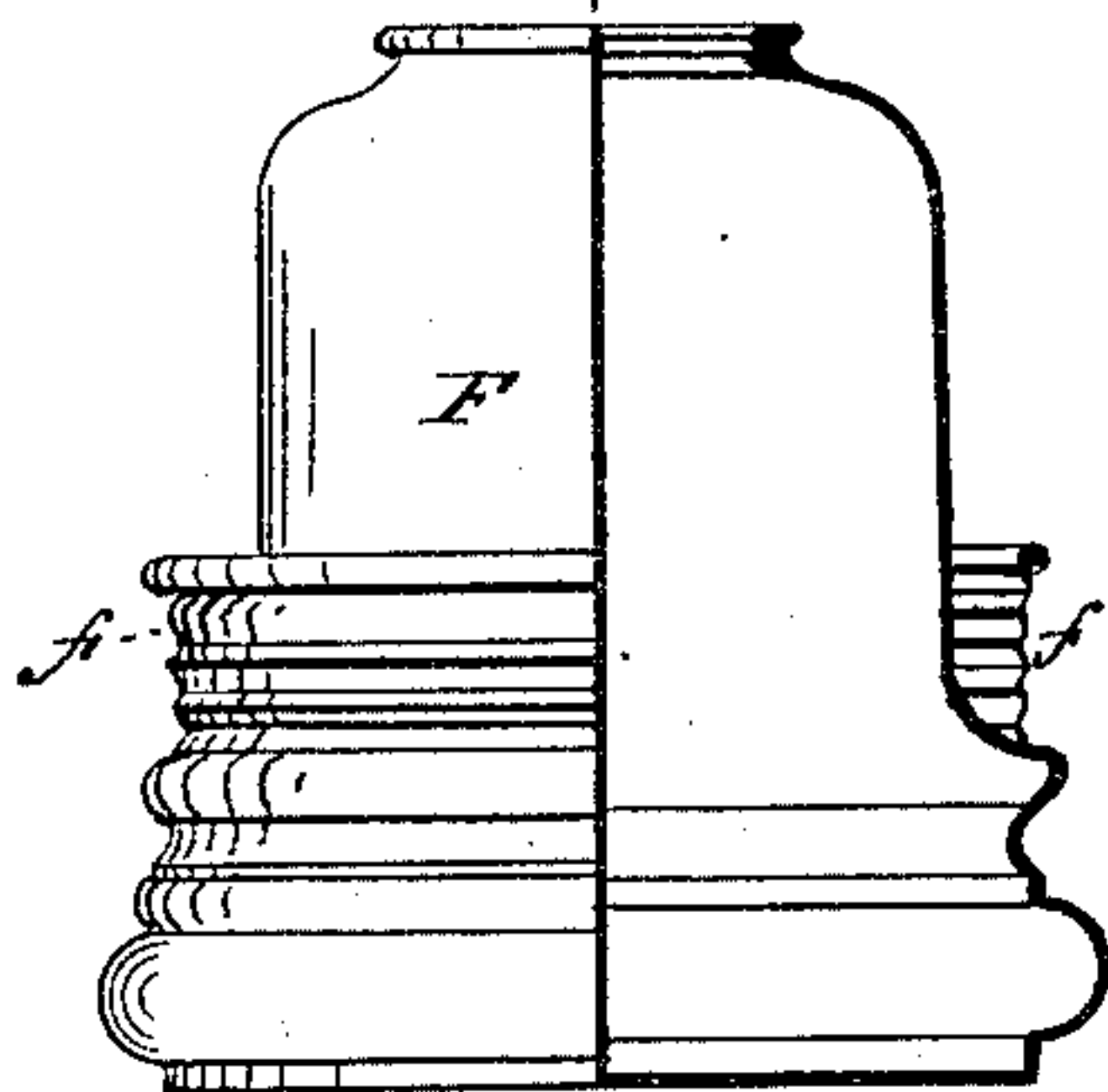


Fig. 3

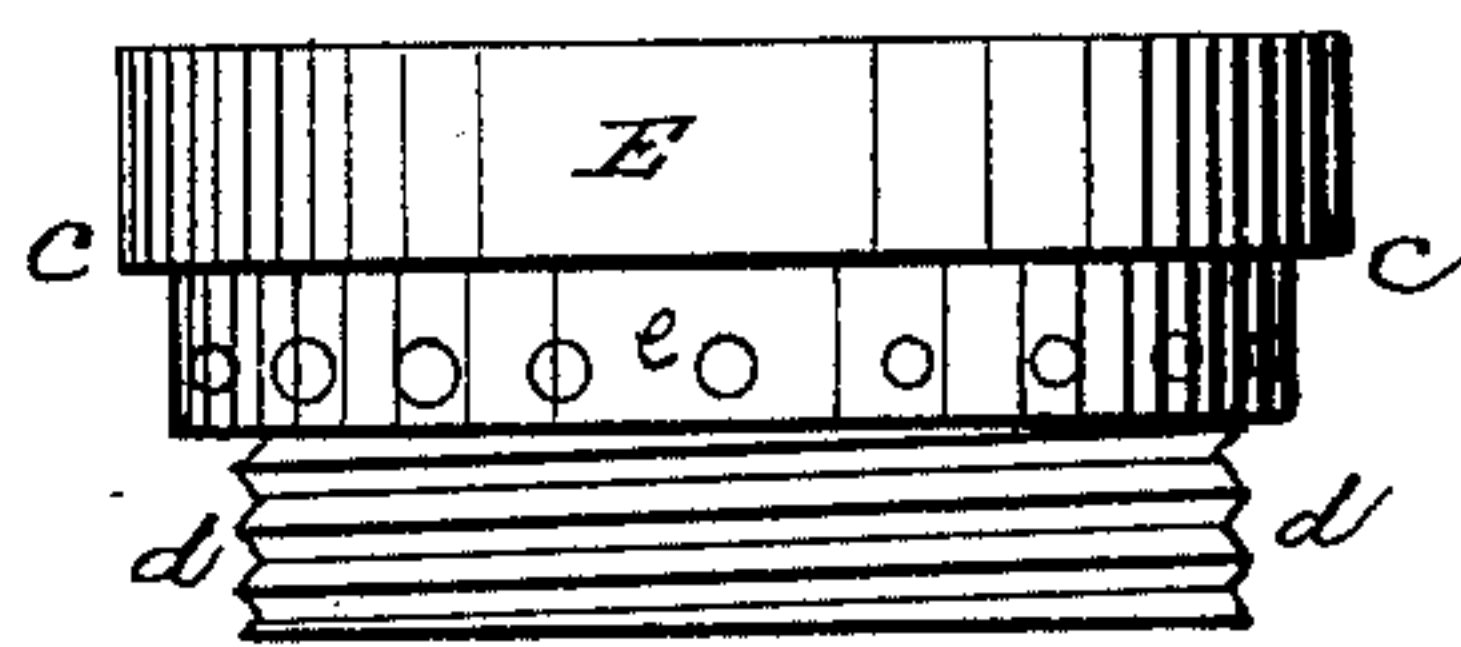


Fig. 4

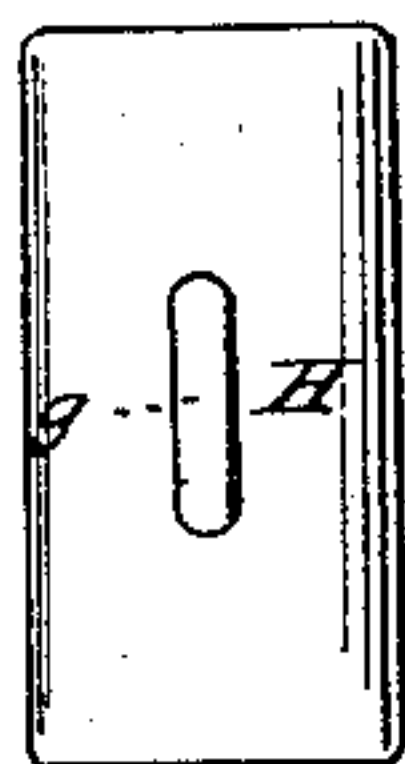
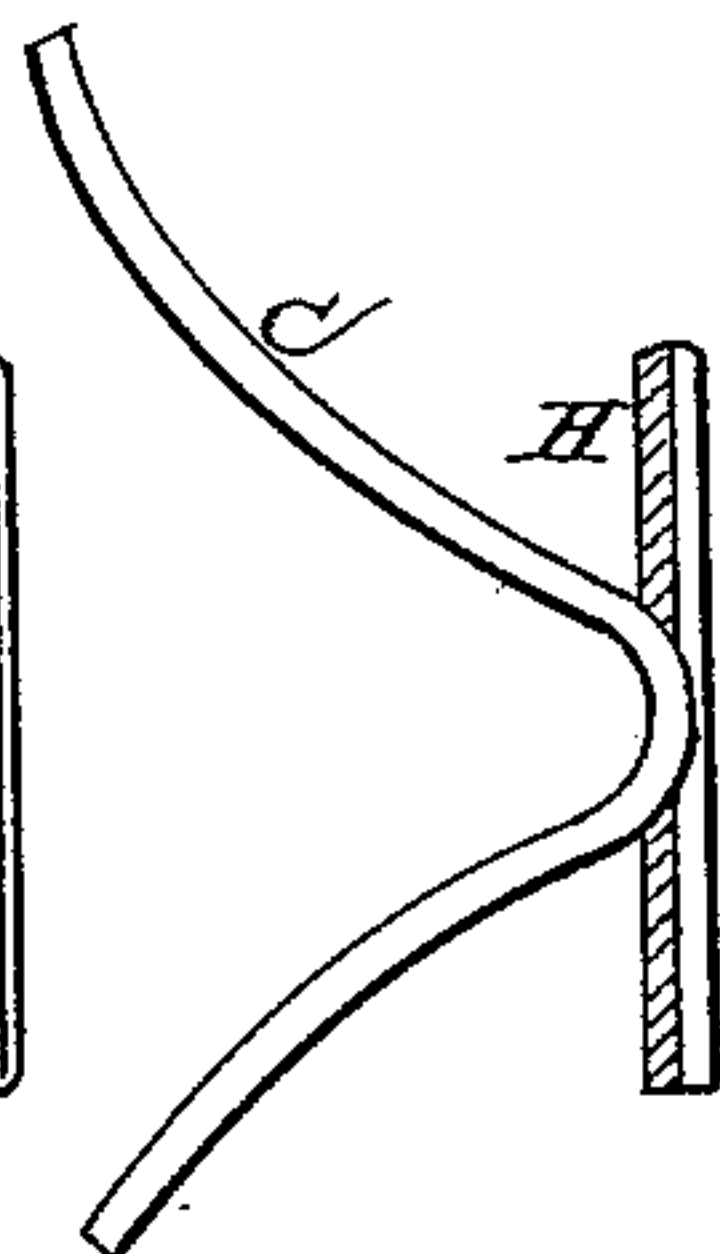


Fig. 5



Witnesses

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WILLIAM WESTLAKE, OF CHICAGO, ILLINOIS.

Letters Patent No. 94,535, dated September 7, 1869.

## IMPROVEMENT IN LANTERNS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, WILLIAM WESTLAKE, of Chicago, in the State of Illinois, have invented certain new and useful Improvements in Lanterns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 represents the lantern with a vertical fourth removed.

Figures 2 and 3 are details enlarged.

Figures 4 and 5, a variation.

My improvements relate to open-bottomed lanterns, for which I obtained Letters Patent of the United States, dated April 7, 1868; and the objects of my improvement are to so construct the lantern that as little shadow as possible will be cast beneath the same, and so that the several parts can be readily removed from each other.

To enable others skilled in the art to make and use my invention, I proceed to describe the construction and operation of the same.

A represents the globe, which is quite small at the base.

B is the dome or cap, the lower part of which, *b*, is large, having the under surface polished, and so constructed as to answer the purpose of a reflector.

The guard C, as shown, is attached to the dome by means of the hinge *h* and spring-catch *a*. Other methods may be used.

D is a narrow annular band, in which are holes to receive the vertical guard-rods, which are fastened thereto by means of solder, upon the under side of this band.

These rods are curved inward, so as to pass through the said holes in D, and from this band are curved outward, so as to form a suitable base, and at the bottom are connected to a ring or band, G, substantially as shown in my patent of April 7, 1868, forming an open-base lantern.

E is a metal hoop, having a shoulder, *c*, which rests upon that portion of the band D within the vertical guard-rods, that part immediately below this shoulder fitting nicely within the band D, and passing through the same, while the lower portion of this hoop is provided with a screw-thread, *d*, to which the oil-pot F is connected by a corresponding screw-thread.

The construction of the oil-pot will be understood from an inspection of fig. 2. The screw-thread *f* of the oil-pot passes over the thread *d* on the hoop E, and between *f* and the oil-pot is a receptacle for overflowing oil.

When constructed as described, the oil-pot occupies but very little space laterally, casting but little if any shadow beneath the lantern, and the several parts can be readily taken apart to be cleaned, which is essential, especially in brass lanterns. The oil-pot can be removed by simply unscrewing the same, and the hoop E can then be easily removed from its place, being pressed up within the guard, the globe having been first removed, when all the parts can be easily cleaned and replaced.

Air is admitted through openings *e* in the hoop E.

The vertical guard-wires might be secured to a vertical band, having slots therein, the bent wire being inserted therein and secured with solder, as seen in figs. 4 and 5, in which H represents a portion of such band, and *g*, a slot therein.

It would be necessary to adapt this band to receive the hoop E. I prefer the band D to the vertical band mentioned.

The band D and the lower part G of the base might be made of cast-metal, and the guard-wires could be readily secured thereto; or, if desired, a base could be made wholly of cast-metal, consisting of the parts D, G, and *i*, in which case the vertical guard-wires above D would be secured directly to D, and would not pass below the same.

By connecting the oil-pot to the lantern by a screw instead of springs, I can make the same occupy less space and cast a smaller shadow, as springs require considerable space in which to be operated.

The reflector *b* will be found exceedingly useful in an open-base lantern, more so than in one having a close base.

The globe A rests upon the hoop E.

The oil-pot may be connected to the hoop E by means of the ordinary bayonet-catch, and the screw-threads on the oil-pot and hoop dispensed with.

Loose bands have been heretofore applied in the base of lanterns, and I do not claim the loose band broadly.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is as follows:

The loose band E, provided with the supporting-ledge or shoulder *c*, in combination with the band D, substantially as and for the purposes specified.

WILLIAM WESTLAKE.

Witnesses:

E. A. WEST,  
L. L. BOND.