J. H. IRWIN.

LAMPS.

No. 180,134. Patented July 25, 1876.

Fig. 1.

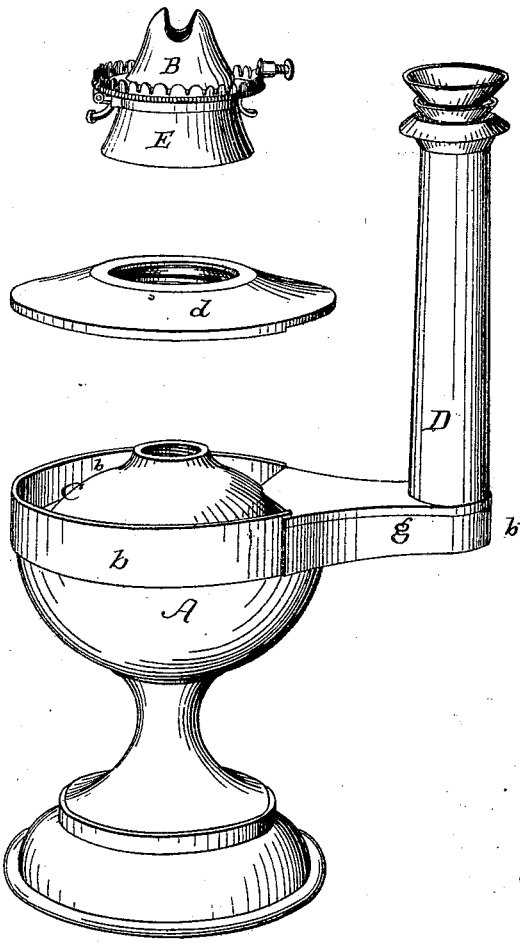
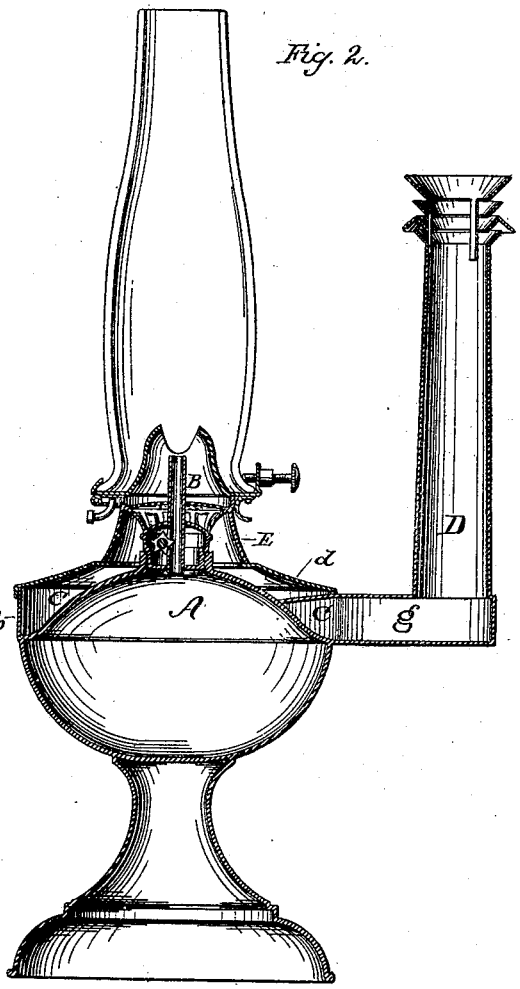


Fig. 2.



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JOHN H. IRWIN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **180,134**, dated July 25, 1876; application filed April 10, 1876.

To all whom it may concern:

Be it known that I, JOHN H. IRWIN, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in the Structure of Tubular Lamps, which is fully set forth in the following specification.

This invention relates to improvements in the structure of the tubular lamp for which Letters Patent have heretofore been granted to me; and it consists, first, in a removable cover for the air-chamber, whereby the interior surface of said chamber is made easily accessible for the purpose of cleansing it of the oil and dust, &c., which will collect therein in the course of usage; second, in a screw-burner provided with a jacket, the lower edge of which rests upon the upper surface of the air-chamber cover, and holds it in place.

That others may fully understand my improvement, I will particularly describe it, having reference to the accompanying drawings, wherein—

Figure 1 is a perspective view of my lamp, parts detached. Fig. 2 is a vertical section of the same.

A is the oil-pot, and B is an ordinary screw-burner. The side of the oil-pot is prolonged upward all around above the cover of the same, so as to form a flange, *a*, which constitutes the side or edge of the air-chamber C, which receives air only through the draft-tube D, which also serves as a convenient handle for the lamp.

When the oil-pot A is filled with oil, all the adjacent surfaces will soon become covered with a film of oil, which, as is well known, has the capacity of creeping over adjacent surfaces to an indefinite extent, and it is desirable that the interior surface of the air-chamber C shall be accessible for the purpose of cleansing it, as well as the exterior surfaces of the lamp. I therefore make the cover *d* of the air-chamber removable, and secure it in place by the jacket E, which is rigidly attached at its top to the burner B.

The cover *d* has a large circular orifice at its center, through which the air passes up under the jacket E, and thence under the cone and to the flange. The draft-tube D is connected at its bottom with the air-chamber C, by the lateral duct or passage *g*, the edges of which curve outwardly as it approaches the chamber C, so as to make a wide entrance into said chamber, and permit the air-currents to move thereto without eddies or change of direction. The central portion of the top plate of the duct *g* is extended into the air-chamber, and its end soldered fast to the side of the oil-pot, for the purpose of strengthening and bracing the air-tube D.

Having described my improvement, what I claim as new is—

1. A tubular lamp, substantially as described, provided with a removable plate, *d*, for covering the entire air-chamber, so that access may be had to the interior of said chamber, for the purpose set forth.

2. The removable cover *d* for the air-chamber C, combined with burner provided with a jacket, E, whereby said cover *d* may be kept in place, as set forth.

J. H. IRWIN.

Witnesses:

RICHARD H. REILLY,

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