(90.)

W. STAEHLEN.

Lamp.

No. 122,864. Patented Jan. 16, 1872

Fig. 1.

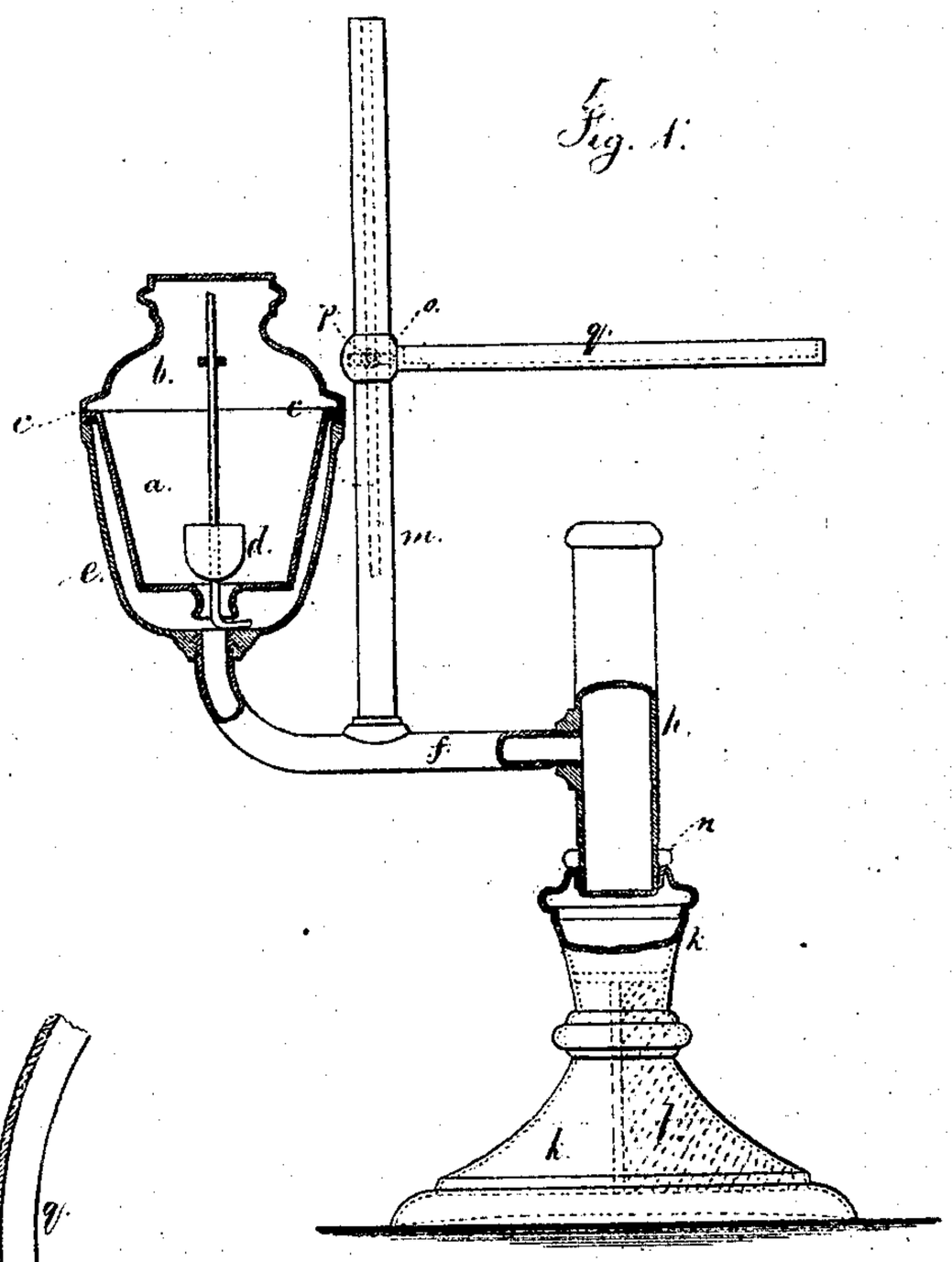


Fig. 3.

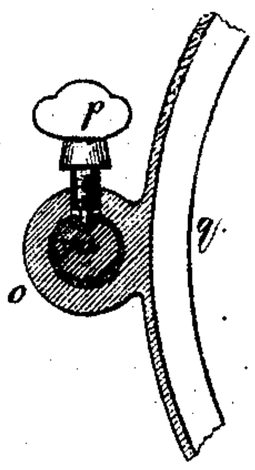
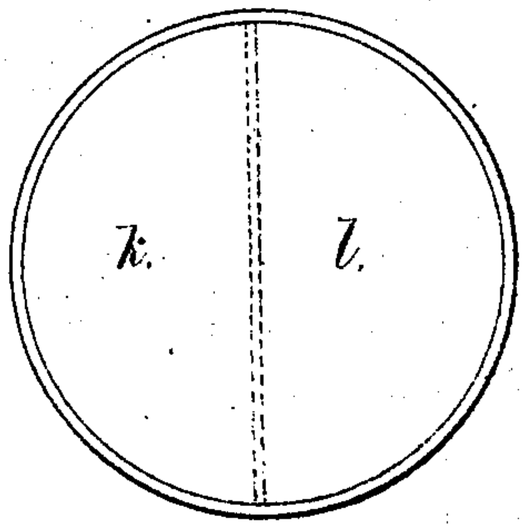


Fig. 2.



Witnesses,
Chas. H. Smith
Geo. D. Walker

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122,864

UNITED STATES PATENT OFFICE.

WILLIAM STAEHLEN, OF WILLIAMSBURG, ASSIGNOR TO CHARLES F. A. HINRICHS, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. 122,864, dated January 16, 1872.

To all whom it may concern:

Be it known that I, WILLIAM STAEHLEN, of Williamsburg, Kings county, State of New York, have invented an Improvement in Lamps; and the following is declared to be a correct description of the same.

This invention applies to the class of lamps in which there is an elevated fountain and a standard carrying a shade-ring and shade.

I make use of a fountain of sheet metal, made of two conical shells with the edges folded and soldered to lessen risk of leakage. The standard carrying the shade-ring is grooved to take the end of the clamping-screw, thereby retaining the shade-ring in position and preventing turning. The base of the lamp is only weighted on one side to counterbalance the reservoir and prevent the lamp tipping either when at rest or while being moved from place to place; and a clamping-ring is applied where the burner-case screws to the base, so as to hold the parts in the correct relative position for bringing the weight of the base on the opposite side to the reservoir.

In the drawing, Figure 1 is an elevation, partially in section, of the lamp. Fig. 2 is an inverted plan of the base; and Fig. 3 is a sectional plan in larger size of the standard and part of the shade-ring.

The fountain or reservoir is made of two frustums, *a* and *b*, of sheet metal, with the edges folded together and then soldered at *c*. The upper part *b* may be more or less ornamented by coves and ribs spun or stamped up in the metal. A valve, *d*, is inserted for the usual purpose, and the neck at this lower end of *a*, instead of being soldered on, as heretofore, is made out of the same metal, thereby avoiding risk of leakage. The fountain-holder *e* is at one end of the tube *f*, and the other end of the tube *f* is connected to the burner-case *h*, screwing and soldering or brazing being resorted to to make a firm attachment. The burner-case *h* is to be of any desired size to contain the liquid hydrocarbon for the burner, and the burner itself may be within this case or screwed upon it, and may be either a flat wick or an argand burner. The base *k* of the lamp is of suitable size and shape; but the counterpoise *l* is only in one-half thereof, upon the side opposite to the reservoir *a b*, so as to make the lamp stand firmly and use as little weight of material as possible, to avoid making the lamp too heavy for transportation with facility. The case *h* screws upon the base *k*, and in order to hold the parts in the proper relative position with the weight *l* opposite to the reservoir a clamping-ring, *n*, is introduced to screw down against the upper end of *k* and prevent the parts turning. The standard *m* receives the slide *o* and clamping-screw *p* of the shade-ring *q*. In order to prevent the shade-ring turning and striking the lamp-chimney, and injuring the same, I make use of a channel running along the standard *m* and receiving the end of the screw *p*. Thereby the ring *q* will be guided by the end of the screw when being raised or lowered, and then clamped by simply turning said screw.

I am aware that cylindrical reservoirs have been made with a cylindrical neck soldered to the lower end, as in the patent of C. A. Kleeman, March 10, 1863.

In my reservoir the lower section, being a conic frustum, allows of the same being made out of one piece of sheet metal, including the neck, thereby avoiding risk of leakage.

I do not claim a lamp-base made heavier on one side than the other.

I claim as my invention—

1. The lamp-reservoir made of the parts *a b* united together, the part *a* being made as a frustum of a cone, with the neck at its lower end of one piece of sheet metal, for the purposes set forth.

2. The burner-case *h* screwed upon the base *k*, and carrying the tube *e* and fountain, in combination with the counterpoise *l* in the base *k* at the opposite side to the fountain, as set forth.

3. The ring *n* upon the screw of the case *h*, between the same and the base *k*, for clamping the parts, in combination with the weighted base *l* and reservoir *a b*, as set forth.

4. The grooved standard *m*, in combination with the shade-ring *q* and screw *p*, as and for the purposes set forth.

Signed by me this 4th day of October, A. D. 1871.

WILLIAM STAEHLEN.

Witnesses:
GEO. T. PINCKNEY,
CHAS. H. SMITH.

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