E. S. DRAKE.
Lamp.

No. 204,303. Patented May 28, 1878.

Fig. 1.

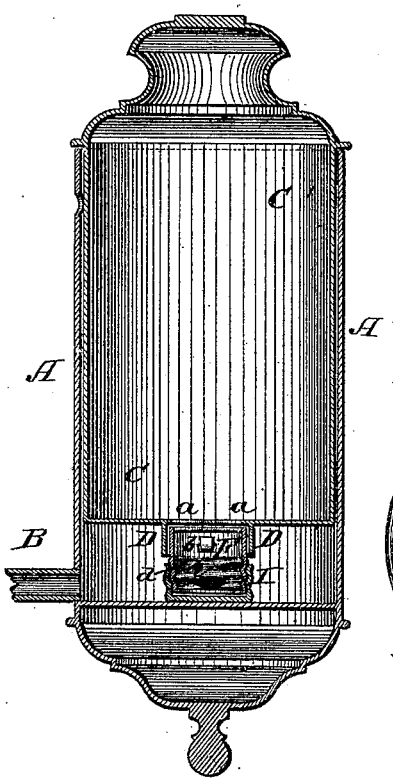


Fig. 2.

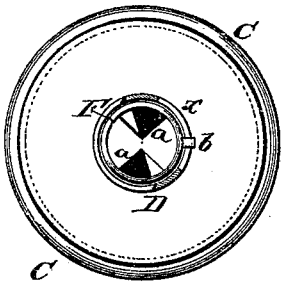


Fig. 3.

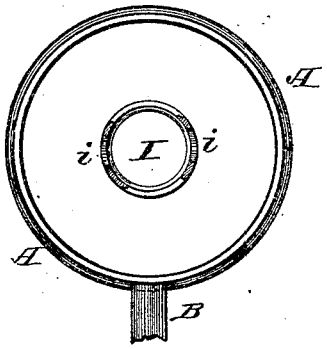
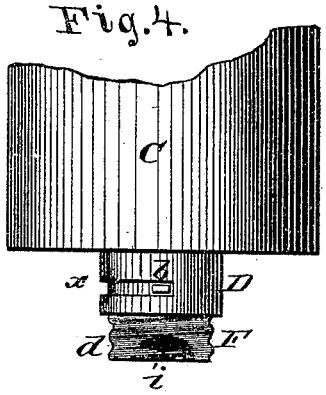


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWIN S. DRAKE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **204,303**, dated May 28, 1878; application filed April 30, 1878.

To all whom it may concern:

Be it known that I, EDWIN S. DRAKE, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Lamps; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to that class of lamps in which the reservoir is located away from the burner; and the nature of my invention consists in the construction of devices for connecting the reservoir to the outside cup or shell, and opening and closing the valve in the bottom of the reservoir by screw-threads, arranged to be operated by the turning of the reservoir, as will be hereinafter more fully set forth.

In the annexed drawing, to which reference is made, and which fully illustrates my invention, Figure 1 is a vertical section of the reservoir and cup in position when locked together. Fig. 2 is a bottom view of the reservoir. Fig. 3 is a plan view of the outside cup or shell. Fig. 4 is a side view of the lower portion of the same.

A represents the outside cup or shell, provided at or near the bottom with a pipe, B, for conducting the oil from the cup to the burner.

C represents the reservoir inserted in the cup A. This reservoir is, in its bottom, provided with one or more openings, *a*, encircled by a downwardly-projecting collar, D. Within this collar is placed the cylindrical valve F, arranged in such a manner as to open and close the openings *a*, and to project a suitable distance below the collar D.

The upper portion of the valve F has a projecting lug, *b*, which enters into a slightly-inclined slot, *x*, in the collar D, or a slot so formed that when the valve is turned closed it will be tightened at the same time, and when turned opened it is comparatively loose. The lug *b*, projecting into the slot *x*, also holds the valve in such a manner that it cannot become detached from the collar D.

The lower portion of the cylindrical valve F is formed or provided with exterior screw-threads, as shown at *d*, to fit in corresponding threads on the inside of a cup or collar, I, made fast or formed with the main cup or shell A.

It is, of course, evident that the thread on the lower portion of the valve may be on the inside, and said valve pass over or on the outside of the collar I equally as well as on the inside, and answer the same purpose.

The valve F and collar I are provided with openings at *i i*, which are to coincide when the reservoir is in place.

After the reservoir is filled with oil the valve F is closed, and the reservoir then inverted and placed in the cup A. By now turning the reservoir the thread on the valve engages with the thread on the collar I, which locks the reservoir to the cup; and by continuing the motion of the reservoir, the valve becomes opened, to admit the oil from the reservoir.

In reversing the movement of the reservoir, the valve is first closed, and then it unscrews from the collar I, so that the reservoir can never be removed with the valve open. The valve must always close before the reservoir can be taken out.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a reservoir, C, and cup A, threaded collars or projections on their adjacent ends to engage with each other for locking the reservoir to the cup, as set forth.

2. In combination with a reservoir, C, and cup A, a threaded valve and corresponding seat, whereby, by the turning of the reservoir, the valve will be opened and closed, as herein set forth.

3. In combination with a reservoir, C, and cup A, a screw-valve connected to the bottom of the reservoir and a screw-collar on the bottom of the cup, whereby the reservoir is locked, and the valve operated by the turning of the reservoir, as herein set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

EDWIN S. DRAKE.

Witnesses:

C. H. WATSON,

WM. B. UPPERMAN.