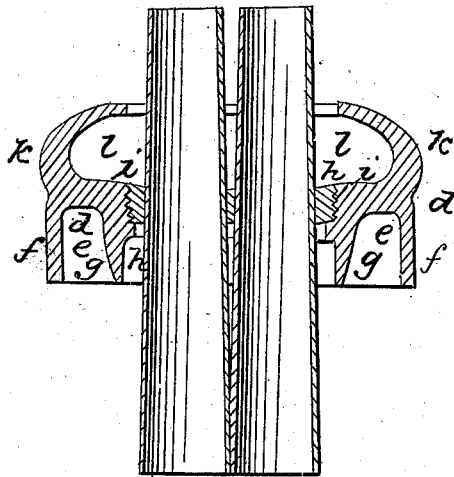


F. DRAPER.  
Lamp Cap.

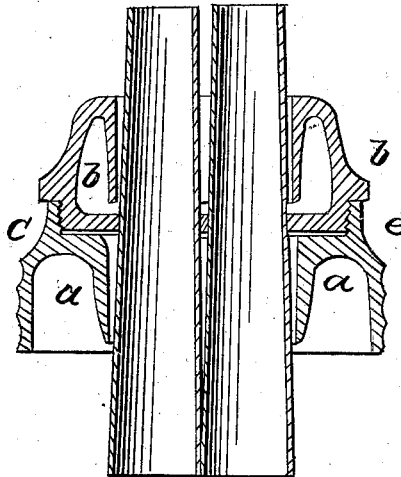
No. 3,500.

Patented March 20, 1844.

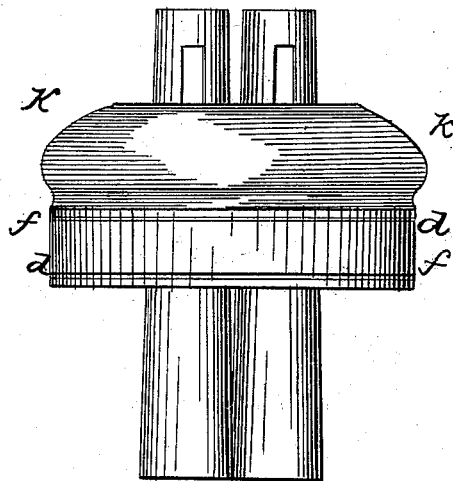
*Fig. 2*



*Fig. 1*



*Fig. 3*



# UNITED STATES PATENT OFFICE.

FRANCIS DRAPER, OF EAST CAMBRIDGE, MASSACHUSETTS.

## LAMP-CAP.

Specification of Letters Patent No. 3,500, dated March 20, 1844.

*To all whom it may concern:*

Be it known that I, FRANCIS DRAPER, of East Cambridge, in the county of Middlesex and State of Massachusetts, have invented a new and useful improvement in lamp-caps, for the purpose of preventing the oil that rises through the air-tube or otherwise from running over and down the exterior of the lamp, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others for a similar purpose, together with such part as I claim and desire to have secured to me by Letters Patent.

A recent device for accomplishing the result aforementioned, as the object or purpose of my improvement, has been to form an independent cup about the wick-tubes and connected to the same which cup is screwed to the "cap" of the lamp. The principal objection to this contrivance is, that the oil when it swells in the lamp will ooze out through the screw in the same manner as it does in an ordinary lamp "cap" which is screwed into the top of the fountain instead of being cemented to or around the same. There are other objections to this plan, such as its want of simplicity, &c., which will be apparent on an inspection of Figure 1, which is a vertical section of such a "cap," &c., *a a* being the "cap" and *b b* the cup, the two being screwed together as above described at *c, c*. Between the "cap" and cup a leather washer has sometimes been inserted, but it will be perceived that when the leather becomes saturated, the oil will be expressed and run down upon the lamp.

My improvement will effectually obviate the aforementioned evil, (as it avoids having a screw in such place as will allow the oil to get to the outside of the lamp,) and consists in extending the perimeter of the "cap" upward around the wick tubes to a proper height to form a deep cup, the sides or rim of the cup being bent or curved in any proper manner to hold the oil. The screw plate of the wick tubes forms the bottom of this cup, said plate being screwed

into the rim of the "cap" which extends down into the fountain as will be explained in the sequel.

Fig. 2, represents such an arrangement, said figure being a vertical section of my improved cap and of the wick tubes and Fig. 3 being an elevation of the same.

*d d* is the cap which is formed according to my improved plan recently patented with a circular groove or channel *e e*, into which the top of a glass or other lamp is fitted or cemented; the exterior rim *f f* of said groove fitting on the outside of the top of the lamp, and the interior rim *g g* being fitted to the inside of the same, or descending into the fountain of the lamp as herein above suggested. A proper female screw is cut on the inside of this latter rim into which the plate *h h* of the wick tubes is screwed as shown at *i i* in Fig. 2.

The cup *l l* is formed by extending the perimeter of the "cap" upward as hereinbefore described and as shown at *k k* which forms the rim or sides of the cup. This rim may be bent as shown in the drawing Fig. 2, or in any other proper way for the purpose of effectually holding the oil. By such a conformation of the lamp "cap" as that above described as my improvement it will be seen that whatever oil passes between the screw of the rim *g g* at that of the plate *h h* at *i i* must pass down the inside of said rim into the fountain.

Having thus described my improvement in lamp caps I shall specify my claim as follows.

I claim—

Forming an oil cup about the wick tubes, and above the top of the plate of the same, by extending the perimeter or exterior rim *f f* of the "cap" upward as hereinbefore specified and for the purpose hereinabove set forth, thereby superseding the use of a screw in such place as will allow the oil to get to the outside of the lamp.

In testimony that the foregoing is a true description of my said invention and improvement I have hereto set my signature this nineteenth day of February in the year eighteen hundred and forty four.

FRANCIS DRAPER.

Witnesses:

EZRA LINCOLN, Jr.,  
SAMUEL NEWTON.