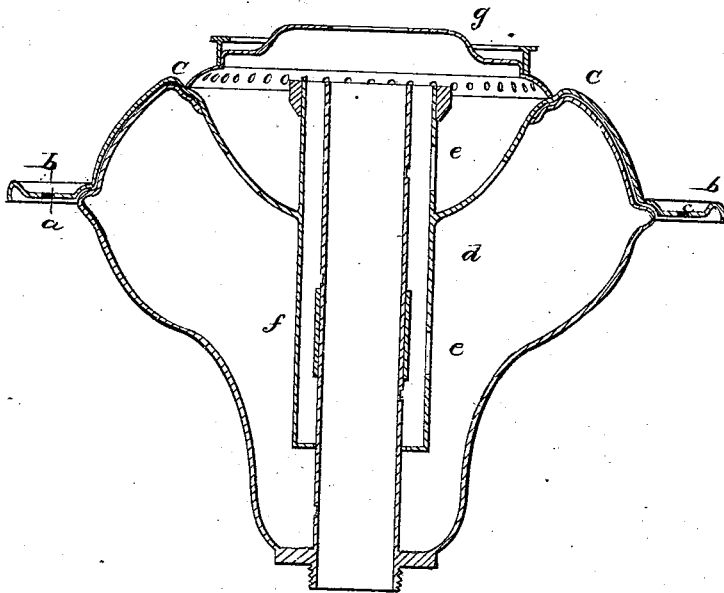
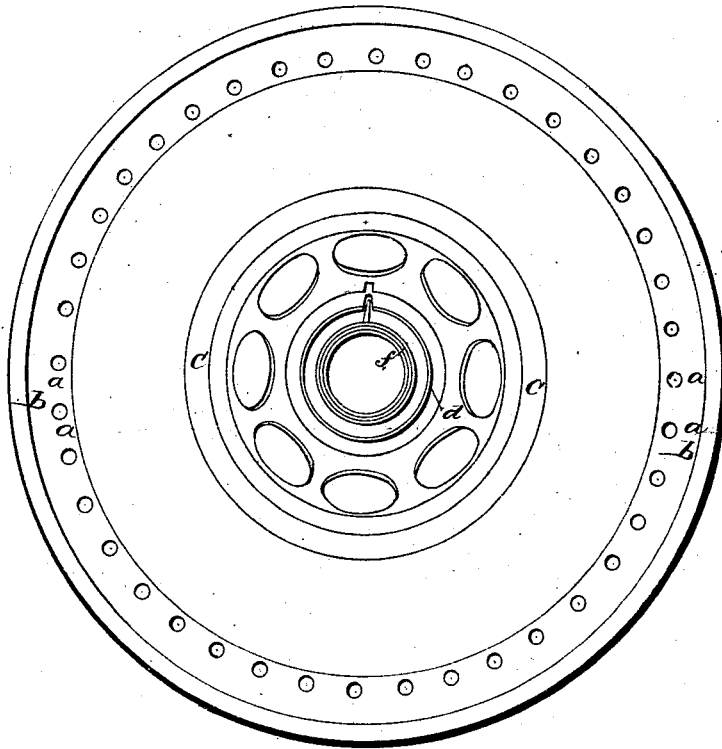


J. Davidson,
Lamp.

No. 4617.

Patented July 2, 1846.



UNITED STATES PATENT OFFICE.

JOHN DAVIDSON, OF BALTIMORE, MARYLAND.

LAMP.

Specification of Letters Patent No. 4,617, dated July 2, 1846.

To all whom it may concern:

Be it known that I, JOHN DAVIDSON, of Baltimore, in the State of Maryland, have invented a new and useful Improvement in
5 Lamps for Burning Lard and other Substances, and that the following is a full, clear, and exact description of the principle or character thereof which distinguishes it from all other things before known and of
10 the manner of making, constructing, and using the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a top plan, and Fig. 2 a vertical section through the center of the lamp.

The same letters indicate like parts in all the figures.

The nature of my invention consists in striking out of one piece of sheet metal the
20 glass holder and supporter of the deflector and outer tube, said piece acting as a cap over the top of the reservoir to which it closely fits, and on which it rests. A difficulty has heretofore arisen in the construction
25 of the holder of the glass shade of the Argand lamp (now in common use), and in connecting it with the parts that support and turn (outside the wick) the tube that serves to raise and lower the thimble. They
30 have heretofore been constructed in several pieces of casting united by wires involving great cost, with want of durability. By my improvement this is all obviated by a simple construction which is not only cheaper but
35 acts as a cap over the reservoir that serves to more clearly retain the heat and keep the lard in a fluid state for burning.

The construction is as follows: out of a
40 circular plate of brass sufficiently large to form the circumference of a shade holder, I

stamp a row of holes (*a*, *a*) within a beading that is raised around the edge; this forms the shade holder (*b*), the holes serving to admit the air inside the shade; within this circle the plate is struck up in the
45 same die as is used for the top of the reservoir, the inside extension from the point (*c*) is cup formed curving down into the lamp, in the opening in the center of the reservoir a hole is cut at the lowest point large enough
50 to admit the outer tube (*d*) which is affixed to it permanently and around the sides there is a row of large holes (*e*). The thimble (*f*) is turned by the tube (*d*) in the usual way, being raised and lowered by the screw on
55 the center tube; as all these parts are like those now in use, a further description of them is deemed unnecessary; the deflector (*g*), also of common construction, is made to rest in the usual position upon the cap. 60

A difficulty often arises in adjusting the ordinary shade holder upon the reservoir but my cap may be ever so carelessly placed on the lamp, it must fall into its proper place, and any grease or dirt that is upon
65 the reservoir is covered by my cap.

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

Connecting the tube (*a*) and shade holder
70 by means of a cap which covers the top of the reservoir in the manner described (the whole being made in one piece) by which a great economy is effected in the construction and the burning of the lamp greatly im-
75 proved.

JOHN DAVIDSON.

Witnesses:

A. CARRERE,
B. M. HEIGHE.