T. C. LAWRENCE.

Lamp-Attachments.

No. 161,798. Patented April 6, 1875.

Fig. 1.

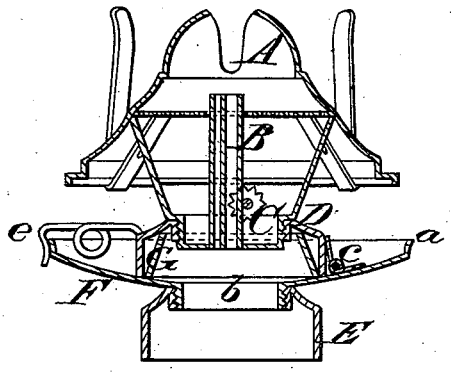


Fig. 2

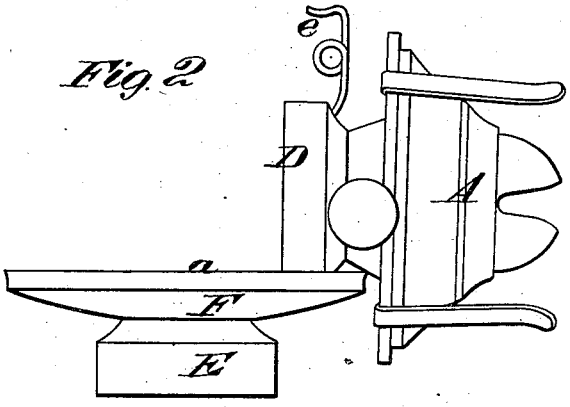
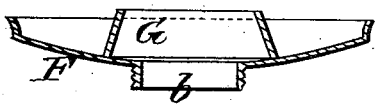


Fig. 3



WITNESSES

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UNITED STATES PATENT OFFICE.

THEODORE C. LAWRENCE, OF LADOGA, INDIANA.

IMPROVEMENT IN LAMP ATTACHMENTS.

Specification forming part of Letters Patent No. **161,798**, dated April 6, 1875; application filed February 6, 1875.

To all whom it may concern:

Be it known that I, THEODORE C. LAWRENCE, of Ladoga, in the county of Montgomery and State of Indiana, have invented a new and valuable Improvement in Lamp Attachments; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical section of my lamp attachment. Fig. 2 is a side view of the same, and Fig. 3 is a sectional detail view.

This invention has relation to attachments for the burners of lamps in which light hydrocarbon fluids are used; and the nature of my invention consists in arranging below the burner proper a cup-shaped shelf, to which the burner is attached by a hinge and spring-catch, in combination with a tapered collar, which enters the base of the burner and forms a tight joint, as will be hereinafter explained.

In the annexed drawings, A designates the cone of my lamp-burner; B, the wick-tube; C, the screw-threaded portion, which is attached to the base D; and E, the cap or collar, which is secured on the lamp. These parts may all be made in the usual well-known manner. F designates a circular cup-shaped shelf, which is surrounded by a narrow rim, *a*, and permanently secured to a screw-threaded ring, *b*. It is by means of this ring *b* that the shelf F is secured to the cap E, as shown in Fig. 1. G designates a conical flange, which is permanently secured to the shelf F, and surrounds the opening through the same. When the burner is in the position shown in Fig. 1 the flange G fits tightly into the base D, and forms a close joint. The base D is connected to the shelf F by means of a hinge, *c*, which will allow the burner to be turned over, as shown in Fig. 2, for filling the lamp or inserting a wick in the tube B. When the burner is in the position shown in Fig. 1 it is held by a friction spring-catch, *e*.

One of the main objects of the improvement which I have above described is, that the shelf F will catch all the oil or oily moisture which may fall from the burner or from a can while filling the lamp. The shelf improves the draft by throwing a strong current of air up through the burner and chimney. Another advantage of my improvement is, that should a dangerous pressure of gas accumulate in the lamp the spring-catch will give way and allow the burner to be thrown over in the position shown in Fig. 2, thus relieving the pressure and preventing explosion.

What I claim as new, and desire to secure by Letters Patent, is—

The cup-shaped shelf F, having the conical flange G, and hinged base D, provided with a spring-catch, *e*, in combination with the elevated lamp-burner cone A, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THEODORE C. LAWRENCE.

Witnesses:
ED. M. BREWER,
WM. M. MCGINNIS.