

W. N. WEEDEN.
Lamp-Burners.

No. 155,846.

Patented Oct. 13, 1874.

fig. 1

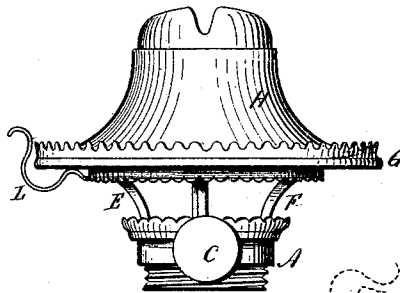


fig. 2

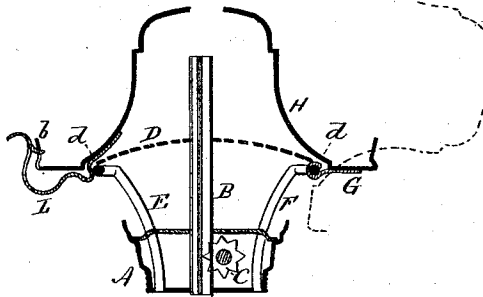


fig. 3

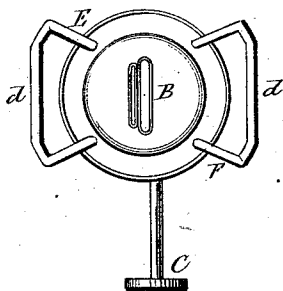
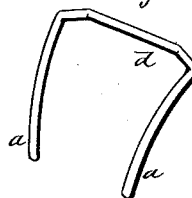


fig. 4



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM N. WEEDEN, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
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IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. **155,846**, dated October 13, 1874; application filed
July 6, 1874.

To all whom it may concern:

Be it known that I, WILLIAM N. WEEDEN, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Lamp-Burners; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification and represent, in—

Figure 1, a side view; Fig. 2, a central section; Fig. 3, a plan view of the base, with the perforated air-distributor removed; Fig. 4, one of the supports detached.

This invention relates to an improvement in the construction of lamp-burners designed for burning kerosene or similar oils, and particularly that class known as hinged burners—that is to say, in which the chimney-rest and deflector are hinged to the lower portion, so as to be turned to one side for the purpose of trimming or lighting; and the invention consists in a pair of supports attached to the screw and extending up to and supporting the air-distributing plate, one forming the pintle of the hinge, the other a bar over which to lock the chimney-rest when closed, as more fully hereinafter described.

A is the screw, fitted with the wick-tube B and with a wick-adjuster, C, in substantially the usual manner. D is the perforated air-distributing plate; E F, the two supports, each formed, as seen in Fig. 4, from a single piece of wire, the two legs *a a* extending down and secured into the screw, as seen in Fig. 2, with a connection, *d*, across the top. These are properly made from wire and bent into form substantially as seen in Fig. 4, and set in place, as seen in Figs. 2 and 3. To the top connection of these supports the perforated plate D is secured, and to the top of the support F the chimney-rest G and deflector H are hinged, the deflector and chimney-rest preferably made

in one piece. The hinge is preferably formed by looping a piece of sheet metal around the top of the support F and riveting it to the chimney-rest. Upon the opposite side is a spring, L, attached to the deflector, as shown, and bent so as to lock beneath the bar *d* of the support E, and extending out with a tongue, *b*, running into the chimney-rest, so as to lock over the flange of the chimney, thus making the spring serve the double purpose of locking down the chimney-rest and securing the chimney. By this construction the burner is made to open below the perforated plate D, and with so little metal connecting the screw with the upper part as to leave so much air-space that very little if any heat will be conducted down to the screw; and forming the supports F as described, that is—uniting the two legs by the bar *d*, and the legs extending down through the screw—forms the strongest possible structure, and makes the burner much more cool and durable than the other constructions, and also enables the forming of a strong, durable hinge and lock. The employment of the supports E and F does not necessitate the hinging of the chimney-rest and deflector thereto, as they may be permanently attached and have all the benefits of strength and coolness.

I claim as my invention—

1. The combination of the two double supports E F, each constructed of a single piece and so as to form the bar *d*, screw A, perforated plate D, chimney-rest, and deflector, substantially as described.

2. In combination with the screw A and double supports E F, constructed as described, the chimney-rest G and deflector H, hinged to one of said supports and locked upon the other, substantially as set forth.

WM. N. WEEDEN.

Witnesses:

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