

L. J. ATWOOD,
Lamp-Burner.

No. 200,015.

Patented Feb. 5, 1878.

Fig. 1.

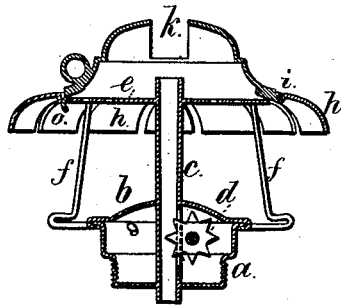
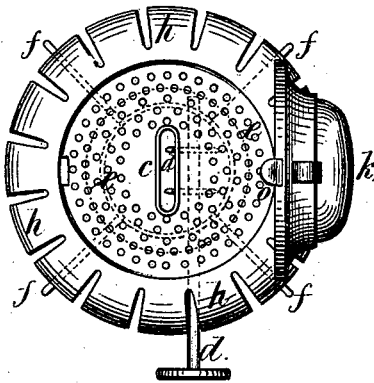


Fig. 2.



Witnesses

Chas H. Smith
William S. Mott

Inventor.

Lewis J. Atwood.

per Lemuel W. Perrell

attij

UNITED STATES PATENT OFFICE.

LEWIS J. ATWOOD, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
PLUME & ATWOOD MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. 200,015, dated February 5, 1878; application filed
September 17, 1877.

To all whom it may concern:

Be it known that I, LEWIS J. ATWOOD, of Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Lamps, of which the following is a specification:

Lamps have been made in which there has been an elevated air-distributor near the upper end of the wick-tube, supported by wires which are L-shaped, and on which the lower end of the chimney rests.

My invention relates to this general class of burners. In the burners heretofore made the air-distributor supports a deflector, and there are tongues upon the deflector, entering mortises through the air-distributor, and the edge of the air-distributor is scalloped.

In my present improvement the lamp-burner is made with a hinged cone, to maintain a firm connection to the air-distributor, but to allow the cone to be turned back to give access to the wick-tube and air-distributor for cleaning and lighting, and the edges of the air-distributor are circular and slotted at intervals, to form springs that set against the interior of the chimney.

I am aware that these springs have been used at the base of the deflector, and that a hinged deflector is also old. In my lamp the combination of the parts produces a superior burner, that is more convenient for lighting and cleaning than those heretofore made.

In the drawings, Figure 1 is a vertical section of the burner, and Fig. 2 is a plan of the same with the deflector turned back.

The base of the burner, with the screw *a*, ratchet-cap *b*, wick-tube *c*, and wick-raiser *d*, are of usual character.

The elevated air-distributor *e* is near the upper end of the wick-tube, and is supported by the L-shaped wires *f* to the base of the burner, and these wires also support the chimney by forming a rest for its lower end, as heretofore employed.

Around the air-distributor is the range of springs *h*, formed by the sheet metal of the air-distributor turned downwardly in a conoidal form, the periphery being circular and intersected by numerous radial incisions, that divide the metal into springs around the rim to the air-distributor.

The air-distributor supports the cone or deflector *k*, which is hinged at *i*, so as to swing up or down, and there is a steadying-tongue, *o*, that passes through a mortise in the air-distributor.

The burner constructed as aforesaid is very strong, cheap, reliable, and easily kept clean, and none of the parts are liable to become detached.

I claim as my invention—

The combination, in a lamp-burner, of an elevated air-distributor, supports for the same, forming also an open base for the chimney, a circular range of springs around the air-distributor, with incisions between them, a cone or deflector, and a hinge connecting the same to the air-distributor, the parts being constructed and arranged as specified.

Signed by me this 10th day of September,
A. D. 1877.

L. J. ATWOOD.

Witnesses:

R. T. LATTIN,
C. H. SAWN.