W. R. UNDERHILL.
Lamp-Burners.

No. 207,372 Patented Aug. 27. 1878.

Fig. 1

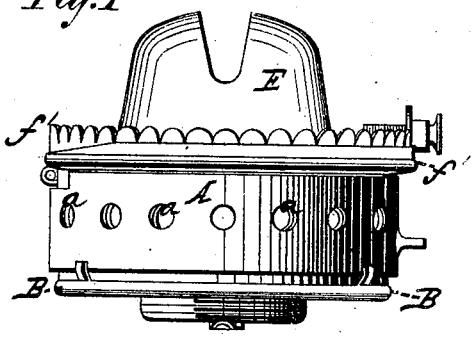


Fig. 2

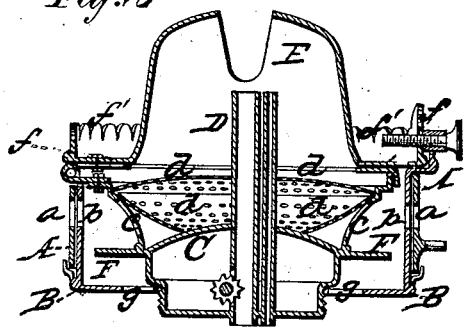
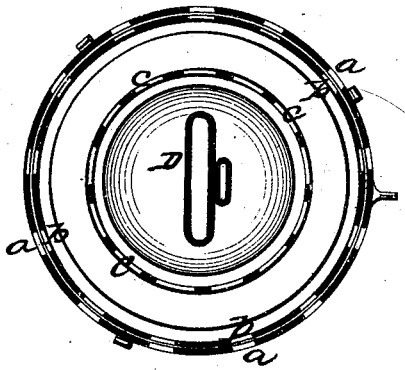


Fig. 3



Witnesses.
Jno. Wm. Hister

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Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM R. UNDERHILL, OF VAN WERT, OHIO.

IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. **207,372**, dated August 27, 1878; application filed April 19, 1878.

To all whom it may concern:

Be it known that I, WILLIAM R. UNDERHILL, of Van Wert, in the county of Van Wert and State of Ohio, have invented certain new and useful Improvements in Lamp-Burners; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side view of my improved burner; Fig. 2, a vertical section thereof, and Fig. 3 a horizontal section of the same.

Corresponding parts in the several figures are denoted by like letters.

This invention relates to a certain improvement in lamp-burners; and it consists of a foraminated sliding band external to a foraminated case inclosing a perforated burner, having an encircling flange or disk, substantially as hereinafter more fully set forth.

In the annexed drawing, A refers to a band having a series of apertures, *a a*, and inclosing the foraminated case B, with the apertures *b b*, which mesh or register with those of the case to allow the inflow of air, after which it is conducted through the perforations *c c* of the burner C and perforated plates or disks *d d* to the wick-tube D and inside the flange-tube E. The object of this arrangement of perforated diaphragms or disks, &c., is to break the force of the wind before reaching the flame. To also conduct it (the air) up into the chimney or globe and cone, such as used in street-lamps, perforations or apertures *f f* are provided in the surrounding flange or rim *f'* of the crown or tube E.

By means of the sliding band A and its apertures or perforations registering with those of the foraminated case B, the inflow of air may be regulated according to the height of the globe-cone stack. In the bottom of the case B is a series of apertures, *g g*, the air admitted through which is deflected in its upward passage in the case by the flange or disk F, encircling the burner C, after which it passes up around the said disk or flange through the burner, &c., to further promote combustion, &c.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The foraminated band A, external to and in combination with the foraminated case B, inclosing the burner C *c*, and perforated disks or diaphragms *d d*, substantially as and for the purpose set forth.

2. The combination of the perforated burner C *c*, having the encircling flange or disk F, with the foraminated case B, having apertures *b b g g*, between which the said disk is arranged, substantially as described, and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

WILLIAM R. UNDERHILL.

Witnesses:

ANDREW S. BURT,

DAVID NEWCOMER.