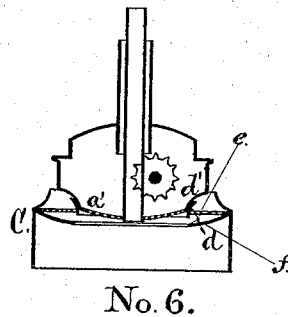
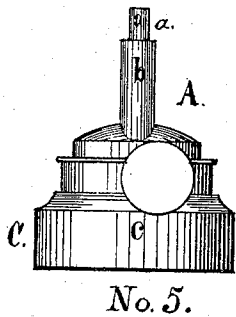
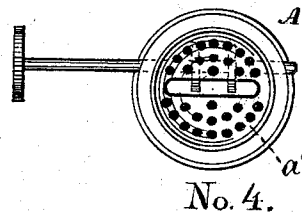
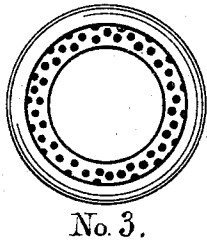
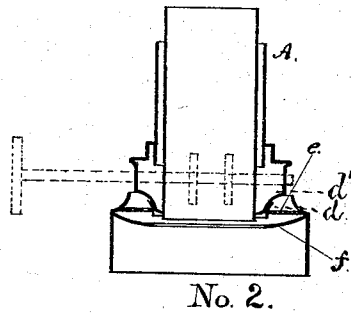
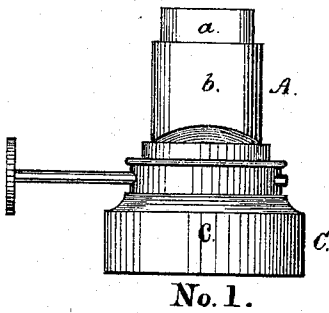


J. N. WYATT.

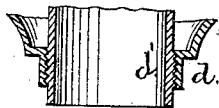
Lamp-Burners.

No. 137,276.

Patented March 25, 1873.



No. 7.



Joseph N. Wyatt,
Inventor

Witnesses:

Thomas J. Osborn,
Cecilia C. Fox

UNITED STATES PATENT OFFICE.

JOSEPH N. WYATT, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. 137,276, dated March 25, 1873.

To all whom it may concern:

Be it known that I, JOSEPH N. WYATT, of Baltimore city, and State of Maryland, have invented certain new and useful Improvements in Lamp-Burners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing and the letters of reference marked thereon, making part of this specification, in which—

Number 1 is a side view. No. 2 is a vertical sectional view of No. 1. No. 3 is a plan view of the collar and perforated plate. No. 4 is a top-plan view. No. 5 is an end view. No. 6 is a vertical sectional view of No. 5. No. 7 is a vertical sectional view of the wick-tube, showing its screw connection with the collar.

The nature of my invention consists in providing the collar with an annular perforated flange-plate, and with an annular inclined shield, secured below said plate. Instead of cutting the female screw-thread that fastens the burner to the collar, I cut it in this perforated flange-plate, so that all oil that escapes through the threads of the screw shall pass through its perforations back to the reservoir, while the inclined shield-plate prevents the escape of gas through said perforations, but directs it to the perforated base of the burner, there to escape in order to be consumed.

The construction and operation of my invention are as follows:

A is the burner-tube, and is provided with a perforated concave plate, *a'*, which fills the entire base of the burner except the rectangular opening in which the tube *a* is secured. The arrangement of this perforated base is clearly shown in Figs. 4 and 6. The wick-tube *a* of the burner is surrounded by an outer tube, *b*. This tube extends as far down as the wick-wheels *b'* will allow. The relative dimensions and arrangement of these tubes are such as to leave an unobstructed passage or channel all around the tube *a*, for the re-

turn of all oil that exudes through the tube *a* to the perforated base *a'*, and from thence down to the reservoir of the lamp. C is the collar that fits over the neck of the lamp, and is secured in the usual manner. This collar C has secured on the inner face of its wall *c* an annular perforated flange-plate, *e*, and immediately below said plate an annular inclined shield-plate, *f*. In this plate *e* is secured a ring-plate, *d*, provided on its inner face with a female screw-thread, and into which screws the thread *d'* of the burner A, and by which it is secured to the lamp, as clearly shown in Fig. No. 7.

It will readily be seen by this arrangement how all the oil that oozes through the screw-threads *d d'*, instead of passing over the outer wall of the collar and thence down on the outer surface of the lamp, necessarily drops on the perforated plate *e*, from which it is conveyed back into the reservoir, while the shield-plate *f* arrests any gases that may be generated, and prevents them passing up through the perforations of the plate *e*, but causes them to escape through the perforated base *a'*, and up through the passage between the tubes *a b*, and thence to the flame, there to be consumed, adding greatly to its brilliancy.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The collar C, consisting of an outer wall, *c*, perforated flange-plate *e*, ring-plate *d*, having female screw-thread on its inner face and annular inclined shield-plate *f*, the whole being so combined and arranged as to operate substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH N. WYATT.

Witnesses:

THOMAS C. CONNOLLY,
HENRY H. BURTON.