MENTZEL & GEDDES.

Lamp Burner.

No. 34,638. Patented March 11, 1862.

Fig. 1.

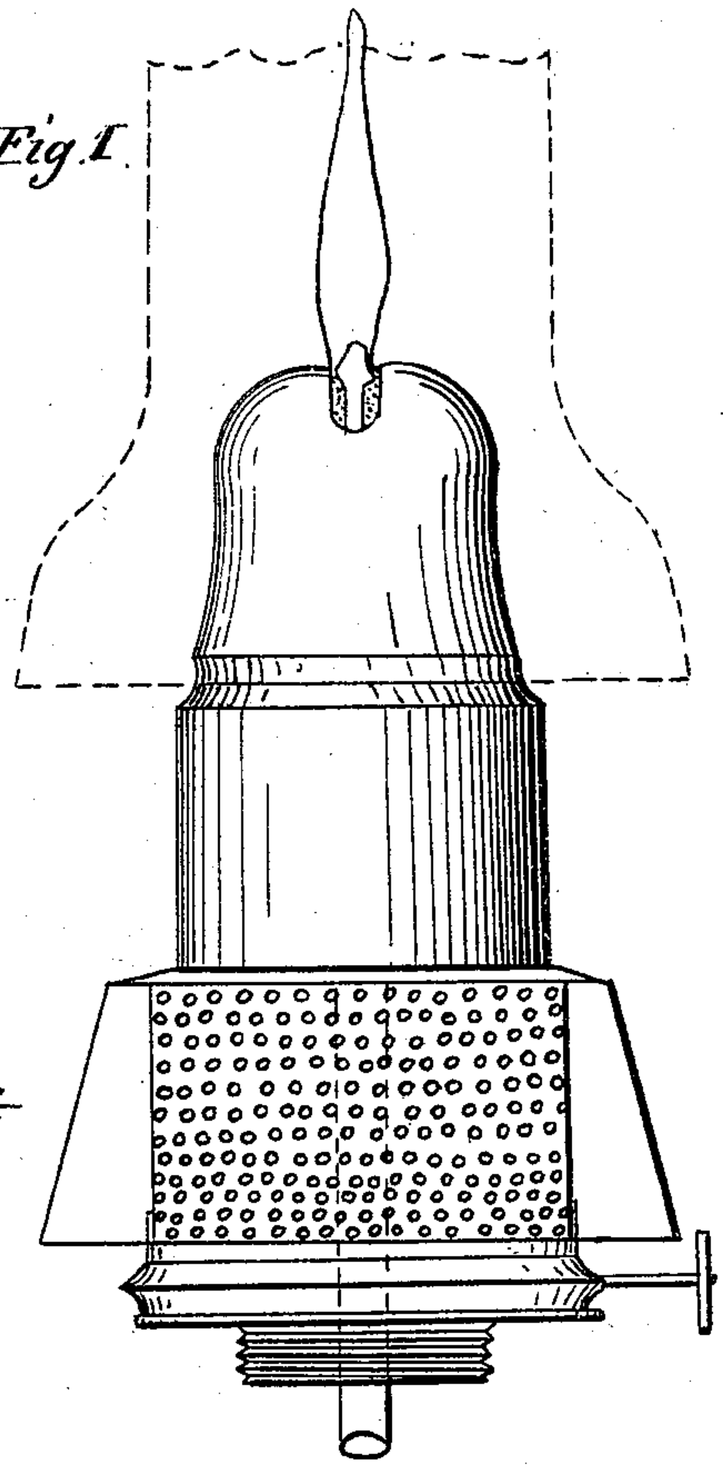


Fig. 2.

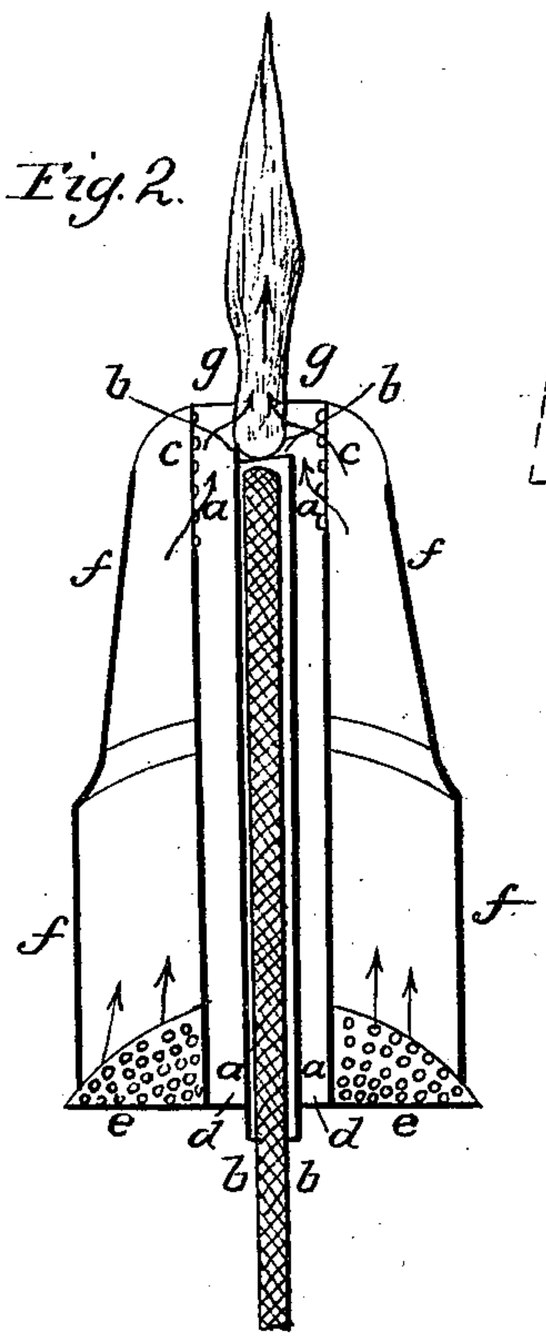


Fig. 3.

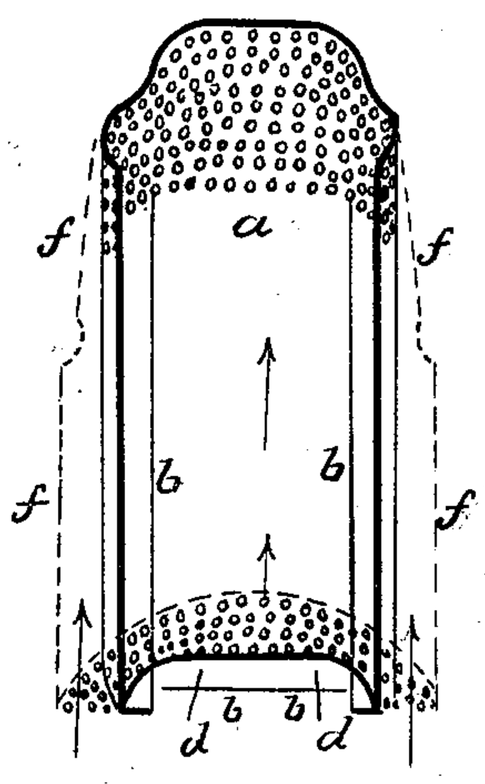
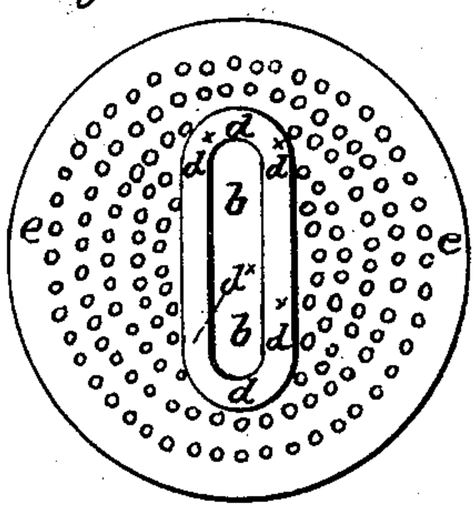


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM MENTZEL, ALEXANDER GEDDES, AND JAMES W. GEDDES, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **34,638**, dated March 11, 1862.

To all whom it may concern:

Be it known that we, WILLIAM MENTZEL, ALEXANDER GEDDES, and JAMES W. GEDDES, of Baltimore, in the State of Maryland, have invented a new Mode of Burning Coal or Carbon Oil Without the Aid of a Chimney; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of our invention consists of an inside jacket-tube *a a a a*, surrounding the wick-tube *b b b b*, perforated at the top *c c* a half-inch or more down and fitting the wick-tube *b* closely at the bottom *d d* to prevent a rush of cold air coming in at that point, which jacket-tube, with the perforated bottom *e e* and outside cap F F F F, forms an air-chamber. The air coming in contact with the heated metal forming the chamber imparts its oxygen, and is thence thrown out through the perforations *c c* at top of jacket-tube in regular drafts at the point of combustion, thus supplying the flame with sufficient oxygen to burn coal or carbon oil completely without the aid of a chimney, and largely decreasing the consumption of oil, the top of cap on either side of the opening for the exit of the flame projecting, more or less, over the jacket-tube, and on one side nearly or quite over the wick for the purpose of increasing the heating-surface and spreading and steadying the flame. If necessary to be placed in a strong draft of air, or if a shade is required, a glass cup is used (inverted, as per drawing) to prevent fanning the flame, and to which a shade nay be readily attached.

What we claim as our invention, and desire to secure by Letters Patent, is—

The jacket-tube *a a a a*, as described, in combination with the perforated bottom E E, and outside cap F, forming an air-chamber for regular drafts of heated air through the perforations of the jacket-tube *c c* for the supply of oxygen at the point of combustion.

WM. MENTZEL.
ALEXANDER GEDDES.
JAMES W. GEDDES.

In presence of—
H. B. STEADMAN,
WM. EMORY.