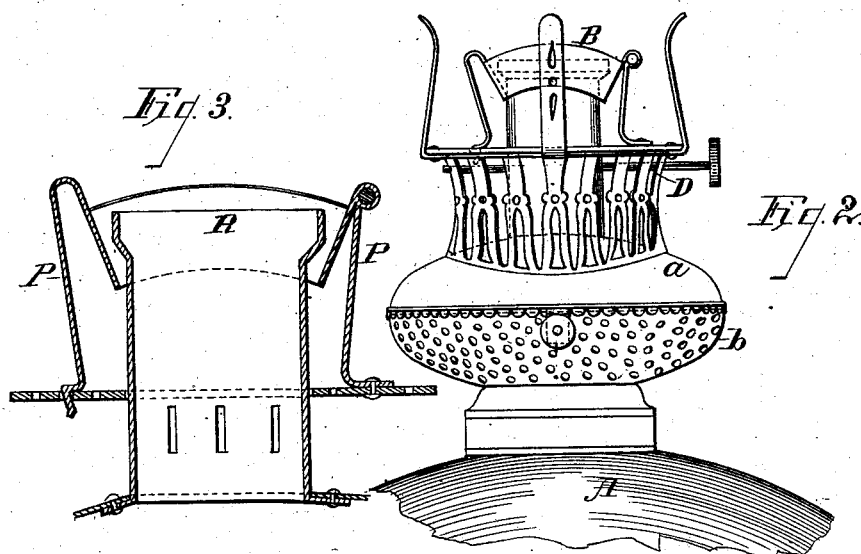
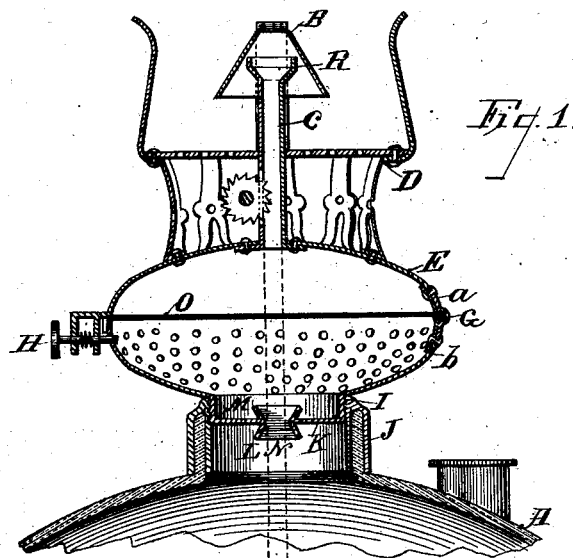


(No Model.)

A. VELGUTH.  
LAMP.

No. 264,584.

Patented Sept. 19, 1882.



Witnesses:

E. L. Osmus  
F. H. West

Inventor:  
Adolph Velguth  
By Jas. B. Ennis

Attorney.

# UNITED STATES PATENT OFFICE.

ADOLPH VELGUTH, OF MILWAUKEE, WISCONSIN.

## LAMP.

SPECIFICATION forming part of Letters Patent No. 264,584, dated September 19, 1882.

Application filed March 24, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ADOLPH VELGUTH, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in lamps.

The object of my invention is, first, to prevent the dripping of oil from the wick-tube of a lamp; second, to prevent the transmission of heat from the burner to the oil, whereby the evaporation of oil caused by the heat is obviated, and much of the disagreeable odor from the oil is prevented, and the lamp is kept in a much cleaner condition.

My invention is further explained by reference to the accompanying drawings, in which—

Figure 1 represents a vertical section of that part of a lamp which embodies my improvement. Fig. 2 is a side view, and Fig. 3 is a detailed view.

Like parts are represented by the same reference-letters throughout the several views.

A is the oil-reservoir of the lamp.

B is the burner.

C is the wick-tube.

D is the chimney-support.

E is an air-chamber formed by two shells, *a* and *b*, which are secured together on one side by hinge G and upon the other side by spring-catch H. The lower shell, *b*, is provided with a screw-threaded flange, I, by which it is attached to the neck J of the reservoir.

K is a diaphragm, which closes the lower end of the neck formed by flange I. The diaphragm K is provided with a wick-passage, L, the upper and lower entrances to which passage are provided with conically-shaped flanges M and N. The lower flange, N, facilitates the wick in entering the passage when drawn up into the wick-tube. The upper flange, M, catches the dripping oil, if any, which passes down on the wick and conveys it back into the reservoir.

The wick-tube C is supported above and

free from contact with the reservoir A by shells *a b*, whereby an intervening space is left between said tube and reservoir through which the wick is drawn. Thus all direct metallic connection between the wick-tube and oil is severed, and the heat of the burner is prevented from being transmitted to the oil. The points of contact between the shells *a* and *b* are provided with a packing of felt, O, or other poor conductor of heat, by which the heat is prevented from being transmitted through said shells to the oil. Thus the oil is kept in a cool condition, and the unpleasant odors caused by heat are obviated.

The burner B is connected with and supported upon the chimney-holder D by arms P P. The upper end of the wick-tube C is provided with conical-shaped flange R, which accumulates the drippings of oil from the wick and retains them until consumed, thus preventing the oil from running down on the wick-tube. When desirous to insert a wick the shell *a* and the parts connected therewith above the hinge G are turned back upon said hinge, when the wick is readily inserted in the lower end of said tube.

The lower shell, *b*, is provided with perforations for the admission of air into air-chamber E, whereby the chamber is kept at a low temperature. The air thus admitted to the lower shell, *b*, is concentrated at the top of the upper one, and from thence led up around the wick-tube into the burner, thereby increasing the supply of oxygen, and thus promoting combustion.

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

1. The combination of reservoir A, chamber E, consisting in perforated shell *b* and shell *a*, diaphragm K, provided with wick-passage L, tube C, having conical flange R, burner B, and chimney-support D, as set forth.

2. The combination of the wick-tube C, chimney-support D, shell *a*, perforated shell *b*, packing O, diaphragm K, and reservoir A, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

ADOLPH VELGUTH.

Witnesses:

JAS. B. ERWIN,

E. G. ASMUS.