

P. TENNANT.
LAMP CHIMNEY.
APPLICATION FILED NOV. 25, 1907.

956,609.

Patented May 3, 1910.

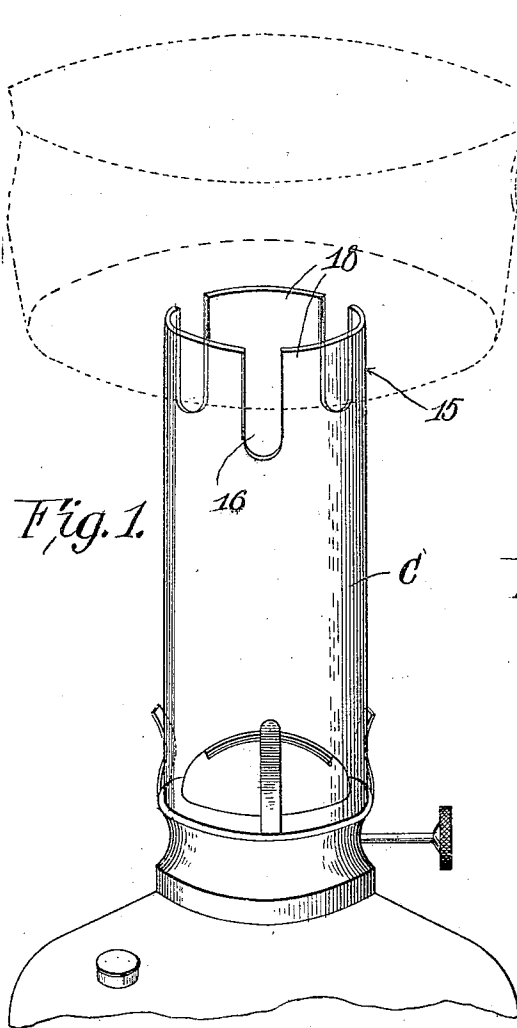


Fig. 1.

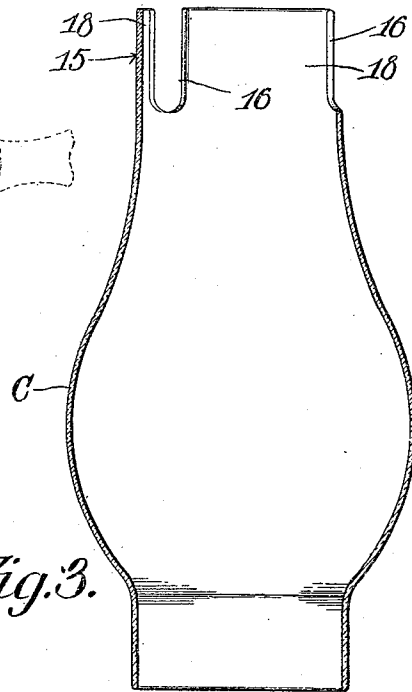


Fig. 3.

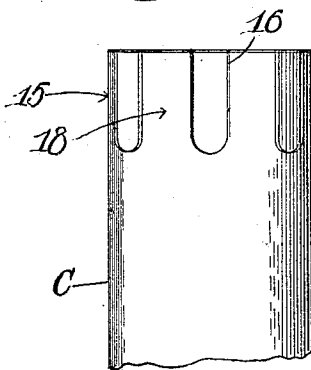


Fig. 2.

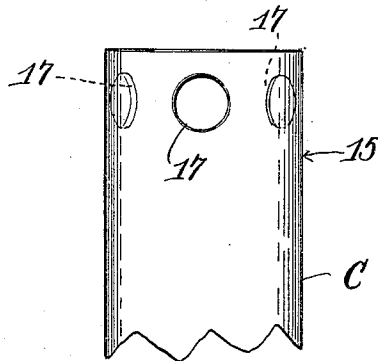


Fig. 4.

Witnesses:
C. E. Smith.
J. Adolph Bishop.

Inventor:
Palmer Tennant.
By *Wm. Bagge & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

PALMER TENNANT, OF HAGERSTOWN, MARYLAND.

LAMP-CHIMNEY.

956,609.

Specification of Letters Patent.

Patented May 3, 1910.

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To all whom it may concern:

Be it known that I, PALMER TENNANT, a citizen of the United States, residing at Hagerstown, in the county of Washington and State of Maryland, have invented certain new and useful Improvements in Lamp-Chimneys, of which the following is a specification.

This invention relates to lamp chimneys, and the principal object of the invention is to present a lamp chimney adapted to directly support a pan or vessel containing liquid or other material to be heated; said lamp chimney being so constructed that a pan, vessel or other object may be supported directly thereupon, without the intervention of a supporting device constituting what is generally known as a lamp heater.

Further objects of the invention are to simplify and improve the construction and operation of this class of devices.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to, when desired.

In the drawings—Figure 1—is a perspective view showing a preferred form of the improved lamp chimney in position for operation, and with dotted lines indicating a heating vessel supported upon the chimney. Fig. 2—is a detail side view, showing the upper end of the lamp chimney. Fig. 3—is a vertical sectional view, showing the invention applied to a lamp chimney of a slightly different type or pattern. Fig. 4—is a detail view, in side elevation, of the upper end of a lamp chimney, illustrating a slightly modified form of the invention.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved lamp chimney, the body of which is indicated by the letter C, may be of the cylindrical shape shown in Figs. 1, 2 and 4 of the drawings, or it may be of the

conventional bulging shape illustrated in Fig. 3, or it may be of any other suitable and convenient shape and structure; the size, proportions and other details being left entirely to the taste and discretion of the manufacturer. It is to be observed, however, that in any case the side walls of the chimney adjacent to the upper edge of said chimney are to be straight, and approximately vertical, as shown at 15 in the several figures of the drawings. It will further be observed that the upper extremities of the side walls of the chimney are not bulged, or extended outward beyond the perimeter of the subjacent portion of the body of the chimney, or, in other words, that the diameter of the upper end of the chimney does not exceed the diameter of the subjacent, or any other portion of the said chimney. This is for the purpose of enabling the chimney to sustain any amount of weight that may be reasonably placed thereupon, without the least danger of snapping or breaking under the strain as it would be extremely liable to do if the upper extremity of the chimney were "lipped" or upwardly inclined, as is frequently the case.

The upper end of the lamp chimney is provided with apertures for the escape, in a lateral direction, of the gases and other products of combustion rising through the flue or chimney; these apertures, or smoke exits, may be in the nature of rather deep notches, 16, extending downward from the upper edge of the chimney, as will be seen in Figs. 1, 2 and 3 of the drawings; or they may be in the nature of apertures of circular or other suitable shape, as shown at 17 in Fig. 4; the precise shape, formation and location of said apertures being relatively of minor importance, provided that the area, as well as the shape and the general location of said apertures is such that the free escape of the products of combustion from the burner of the lamp to which the chimney is applied will be encouraged and promoted, even when the upper end of the lamp chimney is obstructed by a heating vessel or a similar device placed thereupon. When the smoke exits are in the nature of notches, as 16, the upper extremity of the lamp chimney may be described as being provided with a plurality of horizontally curved upright or approximately vertical lips or lugs, 18, separated by said notches, said lips or lugs being, by reason of their peculiar shape, pe-

cularly fitted to support weight without danger of snapping or breaking, the upper edges of said lugs being moreover level or approximately horizontal, so as to form an extended support for a heating vessel, such as a cup, pan or kettle, that may be placed thereon. When said smoke exits are in the nature of apertures, as 17, it will be found that the strength of the chimney, as regards its weight supporting capacity, is practically intact, provided that the portions of the side walls of the chimney having the said apertures are straight and approximately vertical, as provided for in the foregoing description. When this construction is resorted to, it is obvious that the unbroken upper edge of the chimney forms an extended support for such heating vessel as may be placed thereon.

Any of the forms of construction herein described and illustrated will be found conducive to the greatest possible strength and non-liability to break or become fractured, which is obviously of the greatest importance in a device of this class; and an extended or continuous support is provided for the heating vessel which latter will therefore not be liable to be tilted or upset, causing the contents to be spilled, and endangering the lamp and chimney.

The manner of using the improved lamp chimney, and its advantages, will be readily understood from the foregoing description taken in connection with the drawings hereto annexed.

The chimney is adapted to be used in connection with any ordinary lamp or burner consuming oil, gas, vapor or other fuel, and it is obvious that the construction of the chimney structure proper may be modified according to the use for which it is intended; any article that is to be heated, such as a pan or vessel containing liquid, may be placed direct on top of the chimney where it will be subjected to a degree of heat which will speedily be effective to raise the temperature of the article.

The improved lamp chimney may be easily manufactured at an expense not necessarily exceeding the cost of ordinary lamp chimneys; and it is thoroughly efficient for the purposes for which it is provided. With regard to the smoke exits, or apertures, variously designated 16 and 17, it is desired to be understood that any desired number, from one upward, may be used.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States:

1. A glass lamp chimney adapted to support a heating vessel said lamp chimney being provided at its upper extremity with straight, approximately vertical side walls indented by notches to form a plurality of horizontally curved upright, approximately vertical lips or lugs with extended horizontal upper edges to firmly support a heating vessel placed directly thereon.

2. A lamp chimney adapted to directly support a heating vessel upon its upper extremity, said chimney being formed of approximately equal thickness throughout and the side walls, at the upper end of the chimney, being straight, approximately vertical, disposed within the minor perimeter of any subjacent portion of the chimney, and formed with a level, approximately horizontal upper edge forming an extended support for a heating vessel placed thereon; said approximately vertical side walls being apertured for the escape laterally of products of combustion.

3. A glass lamp chimney adapted to support a heating vessel, the walls of the upper portion of said chimney being approximately parallel to its axis and formed with apertures for the escape of the products of combustion.

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

PALMER TENNANT.

Witnesses:

A. YINGLING,
CHAS. E. BARTHLET.