

F. PUJOL.
LAMP BURNER.

APPLICATION FILED MAY 26, 1911.

1,004,197.

Patented Sept. 26, 1911.

Fig. 1.

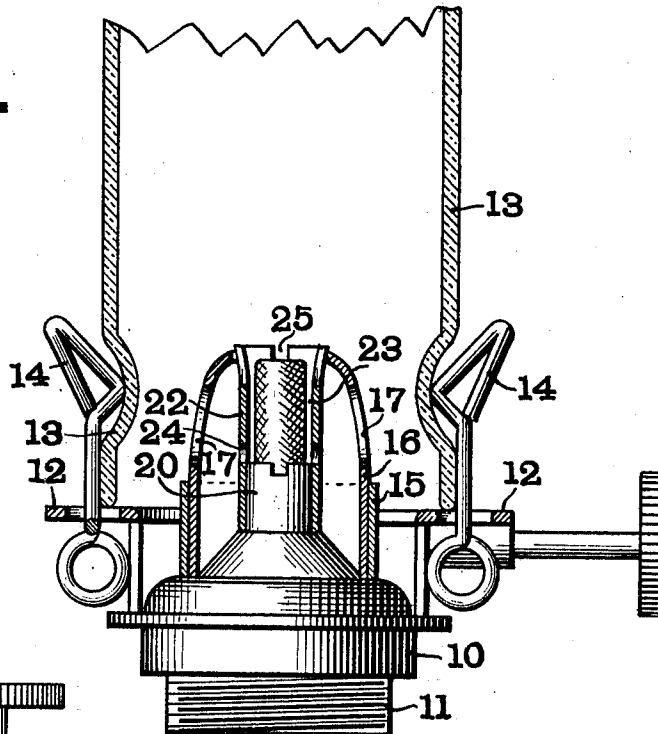


Fig. 2.

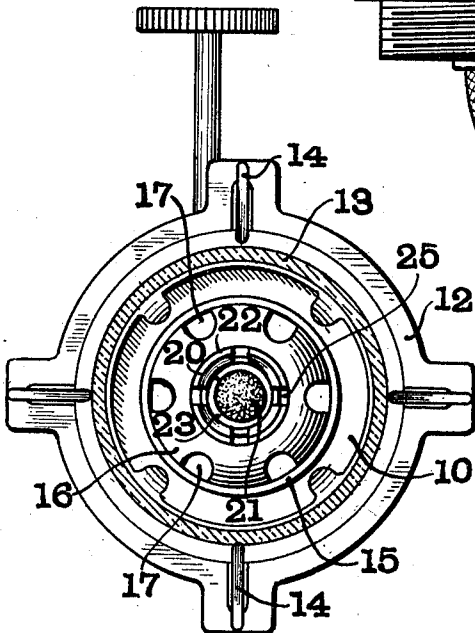
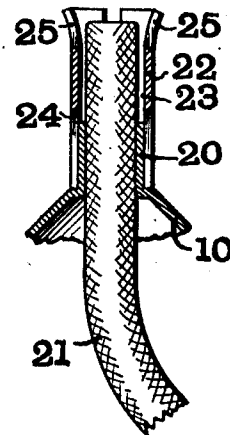


Fig. 3.



WITNESSES:

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LAMP-BURNER.

1,004,197.

Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed May 26, 1911. Serial No. 629,543.

To all whom it may concern:

Be it known that I, FRANK PUJOL, a citizen of the United States, residing at Portage Des Sioux, Missouri, have invented a certain new and useful Lamp-Burner, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to lamp burners and more particularly to that class of burners used in connection with block or switch signals.

The object of my invention is to provide a burner which will burn for a greater length of time without trimming than those now in use thus decreasing the frequency with which the lamp must be visited and trimmed by the inspector and consequently decreasing the cost of maintenance of the lamp.

Having the above objects in view my invention consists in various novel features and details of construction, all of which are described in the following specification and pointed out in the claims annexed hereto.

In the accompanying drawings which illustrate one form of burner made in accordance with my invention, Figure 1 is a vertical section; Fig. 2 is a top plan view the chimney being shown in section; and Fig. 3 is a sectional view of the wick tube.

Like marks of reference refer to similar parts in the several views of the drawings.

10 represents the body of the burner which is provided with the usual threaded nipple 11 for engaging with the lamp font. The body 10 supports a gallery 12 upon which rests the chimney 13 held in position by means of spring fingers 14. Carried upon the upper part of the body 10 and projecting through the opening in the gallery 12 is a thimble 15 in which is removably carried a cone 16 provided with openings 17 for the admission of air. All of the above parts may be of any usual and well-known construction.

Referring now to the wick tube which embodies the novel features of my invention, 20 represents the main portion of the wick tube. This wick tube 20 is made to fit the cylindrical wick 21 snugly. In place of projecting to the top of the cone 16 as is usual

in lamps of this type, the tube 20 only projects about half way to the top of said cone. This main wick tube 20 is surrounded by an auxiliary wick tube 22 the interior diameter of which is substantially equal to the exterior diameter of the tube 20. By this construction a small annular air space 23 is left between the upper portion of the wick 21 and the tube 22. In order to admit air to this space 23 I form in the tube 22 adjacent to the upper end of the tube 20 a number of perforations 24. Two of these perforations 24 on opposite sides of the tube 22 are preferably continued to the bottom of the tube as shown in Fig. 3 so as to lend resiliency to the tube 22 and thus allow of its being readily applied to or removed from the tube 20. The upper end of the tube 22 which preferably projects substantially to the top of the cone 16 is flared and is provided with a number of slots 25. These slots 25 admit additional air to the space between the wick and the tube and also allow of the passage of oil around the char which forms upon the end of the wick after the wick has burned for a considerable time. By this construction I find that the length of time during which the lamp will burn without trimming is very materially increased over the burners now in use. It will also be evident that inasmuch as the tube 22 is readily placed over the tube 20 the ordinary form of burner may be changed in my improved form by simply cutting off the wick tube and applying thereto the auxiliary tube 22.

I am aware that burners of the type above described have heretofore been made in which the upper end of the wick tube was provided with a cup of much greater diameter than the wick, such for instance as shown in the patent to J. A. Mosher No. 851,827, dated April 13, 1907 and patent to F. A. Schuetz No. 923,301 dated June 1, 1909, and I do not claim such construction as part of my invention.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent of the United States, is:

1. In a lamp burner, the combination with a wick, of a wick tube having a lower bore of the same diameter as said wick and an upper bore of greater diameter, whereby an air space is provided around the upper end of the wick, said tube being provided adjacent to the point of change of bore with an

opening for the admission of air, the upper end of said wick tube being slotted for the passage of oil around the char on the end of the wick.

5 2. In a lamp burner, the combination with a wick, of a main wick tube, and a removable auxiliary wick tube surrounding said main tube and projecting above the same, said auxiliary wick tube being flared and
10 slotted at its upper end for the passage of oil around the char on the end of the wick.

3. In a lamp burner, the combination with a wick, of a main wick tube and a removable auxiliary wick tube surrounding said main

tube and projecting above the same, said 15 auxiliary wick tube being provided with an air inlet adjacent to the end of said main wick tube, said auxiliary wick tube being flared and slotted at its upper end for the passage of oil around the char on the end of 20 the wick.

In testimony whereof, I have hereunto set my hand and affixed my seal in the presence of the two subscribing witnesses.

FRANK PUJOL. [L. s.]

Witnesses:

JACOB SPATZ,
S. M. KEEBEE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."