

G. A. HORN.
LAMP BURNER ATTACHMENT.
APPLICATION FILED JUNE 29, 1912.

1,059,732.

Patented Apr. 22, 1913.

Fig. 1

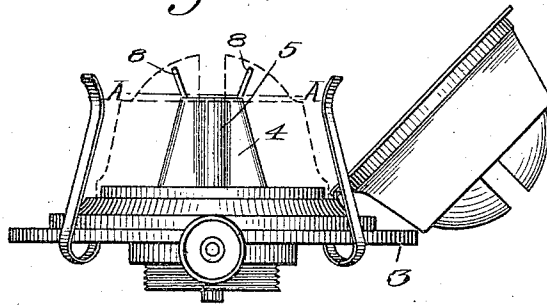


Fig. 2

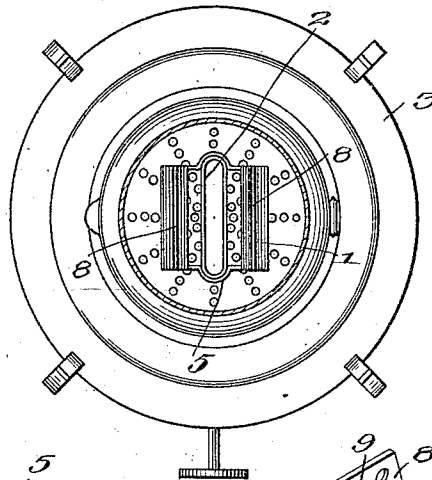


Fig. 3

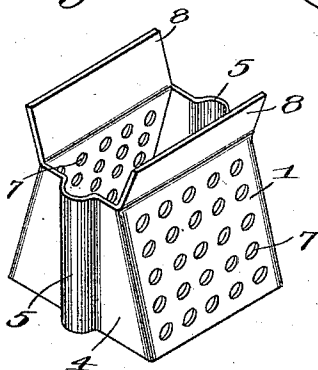
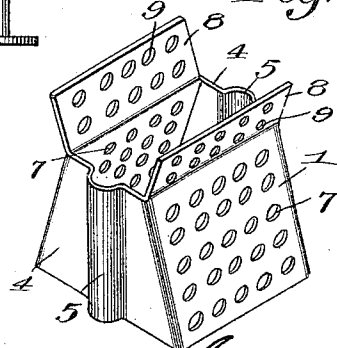


Fig. 4



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LAMP-BURNER ATTACHMENT.

1,059,732.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE A. HORN, of Newark, in the county of Wayne and State of New York, have invented a new and useful Improvement in Lamp-Burner Attachments, which improvement is fully set forth in the following specification and shown in the accompanying drawings.

The present invention relates to attachments for kerosene burners and an object of the same is to provide a device which may be manufactured independently of the burner and applied thereto for the purpose of increasing the illuminating power thereof and rendering it smokeless and odorless.

To this and other ends the invention consists in certain parts and combinations of parts all of which will be hereinafter described, the novel features being pointed out in the appended claims.

In the drawings: Figure 1 is a side view of the lamp burner with the present invention applied thereto, the cap of the burner being open; Fig. 2 is a top view of the burner with the device in position thereon and the hinged or swinging cap shown in section; Fig. 3 is a perspective view of the embodiment of the attachment illustrated in Figs. 1 and 2; and Fig. 4 is a perspective view of another embodiment of the invention.

According to the present invention, there is provided a device comprising two oppositely disposed deflecting or confining walls 1, said walls preferably being arranged in converging relation, bringing their upper edges closer to each other than their lower edges but having said upper edges spaced apart a greater distance than and above the side walls of the usual flat wick tube 2 of the common or commercial form of burner 3. In order to support these deflecting or confining walls on opposite sides of the burner tube 2 and preferably so that the attachment may be removably arranged on the burner 3, there may be provided two walls 4 connecting the opposite upright edges of the confining walls 1 and preferably provided with vertical grooves or depressions 5 formed by bending or otherwise forming the metal of the walls 4 so that the opposite narrow sides of the flattened tube 2 may be received within these depressions 5 to hold the confining walls in proper relation to the tube 2.

The confining walls 1 are provided with perforations 7 and also with extensions 8

turned outwardly from the upper edges of the wall 1 in diverging relation. The embodiment shown in Fig. 4 differs from the embodiment shown in Fig. 3, only in the provision of perforations 9 in the outwardly deflected portions 8.

The theory of this invention is that air passing through the usual openings 6 of the burner is concentrated about the wick tube 2 by the confining walls 1 which, after the burner has been lighted a short time, become hot and radiate heat which vaporizes the kerosene, thus making the burner generate its own gas. The walls 4 in addition to tying the walls 1 together in properly spaced relation also act to confine the air and assist in the gas generating action. In some instances, it is desirable to admit more air into the open ended generating chamber formed by the walls 1 and 4 and it is for this reason that the walls 1 are provided with the openings 7. The deflected portions 8 are employed for preventing the flame being affected by upward drafts of air on the exterior of the generating chamber, but it has been found advantageous, in some instances, to perforate these deflected portions as shown in Fig. 5 to admit air to the flame. The walls 4, when the deflected portions 8 are provided, are not extended upwardly as the flame passes above these walls between the ends of the deflected portion 8.

It is apparent that there has been provided an attachment for the commercial lamp burners adapted to be removed from or quickly placed in position on the lamp burner to increase the brilliancy of the light thereof and to render the same odorless and smokeless.

The device is simple in operation, inexpensive to manufacture and not liable to get out of order.

What I claim as my invention and desire to secure by Letters Patent, is:

1. An attachment for lamp burners comprising a member open at its lower and upper end, and having two opposite walls converging from their lower to their upper edges and walls connecting the converging walls and provided with means for engaging the wick tube to hold said converging walls in proper relation to said wick tube, said member also having outwardly deflected portions above said converging walls extending from one connecting wall to the other.

2. An attachment for lamp burners com-

prising a member open at its lower and upper end and having two opposite walls converging from their lower to their upper edges, and walls connecting the converging walls and provided with means for engaging the wick tube to hold said converging walls in proper relation to said wick tube, said member also having outwardly deflected portions above said converging walls extending from one connecting wall to the other, and the converging walls of said member being provided with numerous perforations throughout their areas.

3. An attachment for lamp burners comprising a member open at its lower and upper end and having two opposite walls

converging from their lower to their upper edges, and walls connecting the converging walls and provided with means for engaging the wick tube to hold said converging walls in proper relation to said wick tube, said member also having outwardly deflected portions above said converging walls extending from one connecting wall to the other, said converging walls and deflected portions being provided with numerous perforations throughout their areas.

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Witnesses:

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