

A. F. PRAHM.
LAMP OR LANTERN BURNER.
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965,597.

Patented July 26, 1910.

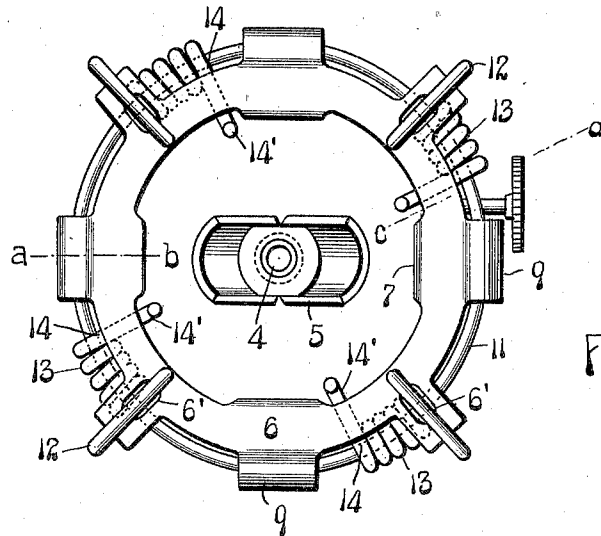


Fig. I.

Fig. V.

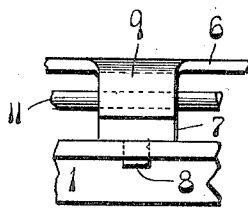
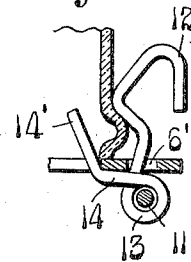


Fig. II.

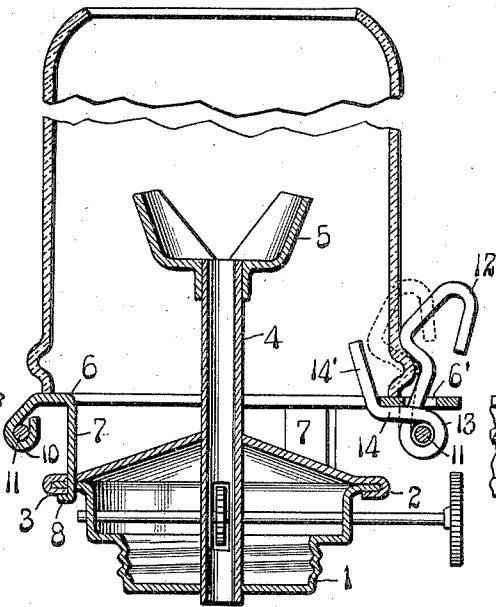


Fig. III.

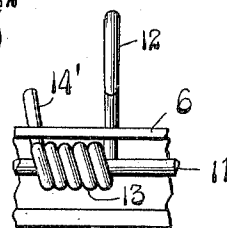


Fig. IV.

Attest
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UNITED STATES PATENT OFFICE.

ADOLPH F. PRAHM, OF ST. LOUIS, MISSOURI, ASSIGNOR TO HANDLAN-BUCK MANUFACTURING COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION.

LAMP OR LANTERN BURNER.

965,597.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ADOLPH F. PRAHM, a citizen of the United States of America, residing in the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Lamp or Lantern Burners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to a lamp or lantern burner and it has for its object the production of a burner of this description that may be manufactured very inexpensively and without the employment of skilled labor.

A further object of my invention is to provide in a burner of the kind named a more efficient chimney holding construction than that with which lamp and lantern burners are ordinarily equipped.

Figure I is a top or plan view of my lamp or lantern burner. Fig. II is an elevation of fragments of the body of my burner, the gallery surmounting the body and the ring supported by the gallery and on which the chimney holding fingers are mounted. Fig. III is a vertical section taken in part on line *a—b* and in part on line *c—d*, Fig. I. Fig. IV is a view similar to Fig. II, illustrating one of the chimney holding fingers in detail. Fig. V is a section through the gallery of my burner, and a fragment of a chimney seated thereon, illustrating the office of the centering fingers.

In the accompanying drawings:—1 designates the body of my burner, which is provided with the usual screw threaded neck for introduction into an oil font. The body is provided with an annular outwardly jutting bead 2 that contains at intervals perforations 3.

4 is a wick tube surmounted by a flame spreader 5.

6 designates a gallery that affords a ledge on which a lamp chimney such as that shown at A may rest, and which includes legs 7 extending downwardly from the ledge of the gallery for its support, the legs being provided at their lower ends with tongues 8 that extend through the perforations 3 in the bead 2 in the burner body, and are bent outwardly beneath said bead to a degree to provide for their being clenched to the bead. It will be seen that by the construction of the legs just set forth, the bodies of the legs

rest upon the beads, while the tongues being clenched beneath the beads serve to hold the legs firmly united to the body of the burner in order that the gallery 6 may be strongly secured to the burner body without any additional means of fastening, such for instance, as the application of solder to the connecting members. The gallery 6 has projecting from its outer edge at intervals outwardly and downwardly projecting lips 9, the ends of which are turned upwardly to provide pockets 10 located beneath the ledge of the gallery, as seen most clearly at the left hand side of Fig. III. The pocket producing lips 9 are preferably located opposite to the gallery legs 7 and are preferably of a number corresponding to the number of said gallery legs.

11 is a supporting ring, preferably made of round wire, and which is mounted in the pockets of the lips 9 so that it extends in a circle beneath the ledge of the gallery.

12 designates chimney clamping fingers, the chimney engaging portions of which are located wholly above the ledge of the gallery 6, and which extend downwardly through slots 6' in said ledge. These chimney clamping fingers depend for their support upon the supporting ring 11 located beneath the ledge of the gallery, and each finger has as a component part thereof a coil spring 13 which encircles the ring 11 at a point beneath and in proximity to the slot in the gallery through which the finger extends, the terminal arm 14 of each spring coil being so positioned beneath the ledge of the gallery as to bear thereagainst. The terminal arms of the spring coils act, as will be readily appreciated, to restrain the coils from turning upon the supporting ring 11 when these coils are placed under tension by outward movement of the chimney clamping fingers in order that a chimney may be seated between the several fingers and be clamped thereby as the fingers assume their proper positions against the outer surface of the chimney. It will be noted that the spring coils of the chimney clamping fingers are mounted in their proper positions upon the supporting ring 11 and retained thereon without the employment of any fastening means.

I desire to direct particular attention to the fact that the spring action for the control of the chimney clamping fingers of my

burner is secured through the medium of the coils 13 which are wrapped loosely around the supporting means 11 and that, inasmuch as the several turns of each coil afford the desired spring action combinedly, there is a limited amount of strain imposed upon each turn of the coil and, as a consequence, the entire coil will retain its elasticity for a long period, with the result that there is no lessening in the efficiency of the chimney clamping fingers after long continued use of the burner.

It will be noted on reference to the drawings that the terminal arms 14 of the spring coils 13 entering into the construction of the chimney clamping fingers 12 are bent upwardly at the interior of the gallery of my burner so that these terminal arms serve to provide upwardly extending guide fingers 14', which are of service in guiding a chimney when it is placed upon the burner and further as members for centering the chimney so that its bottom will rest upon the gallery at all points, instead of the chimney being so positioned, on account of unintended distortion of the clamping fingers or to the fact of the chimney applied being of slightly less diameter than the size of the gallery called for, as to cause it to be off center and to permit an up-draft of air between it and the inner edge of the gallery. It will be seen that the clamping fingers of my burner, therefore, perform dual functions, inasmuch as they serve to clamp the chimney and also so position it upon the gallery that any air passing upwardly

through the gallery must enter the chimney, thereby insuring proper performance of the functions of the burner, regardless of variation in the diameter of the chimney within the limits of the gallery.

I claim:—

1. In a burner, a gallery, and chimney clamping fingers having spring coils therein provided with terminals extending beneath said gallery, the terminals of said coils being extended upwardly within the gallery to provide guiding and centering fingers for a chimney placed on said burner.

2. In a burner, a gallery, a supporting member supported by said gallery, and chimney clamping fingers having spring coils loosely fitted to said supporting member and provided with terminals bearing against a fixed part of the burner.

3. In a burner, a gallery, a supporting ring supported by said gallery, and chimney clamping fingers having spring coils loosely fitted to said ring and having terminals bearing against said gallery.

4. In a burner, a gallery, a supporting ring supported by said gallery, and chimney clamping fingers having spring coils loosely fitted to said ring and having terminals bearing against said gallery, the terminals of said spring coils being extended upwardly at the interior of said carrier to provide chimney guiding or centering fingers.

ADOLPH F. PRAHM.

In the presence of—

E. B. LINN,

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