

A. C. RECKER.
INVERTED BURNER.
APPLICATION FILED DEC. 18, 1911.

1,035,639.

Patented Aug. 13, 1912.

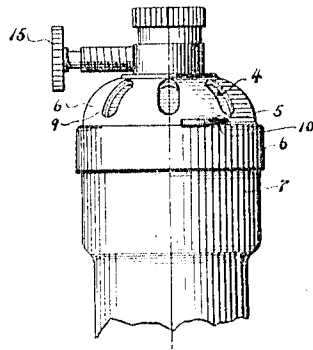


Fig. 1.

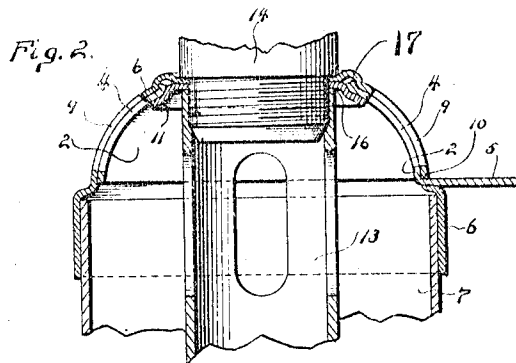


Fig. 2.

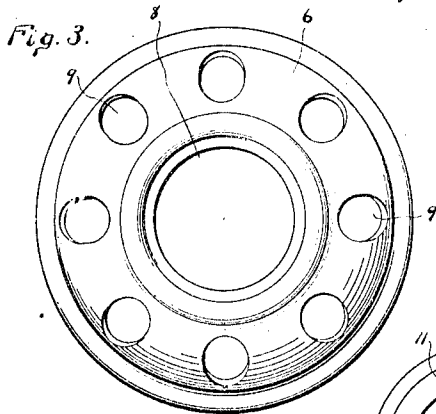


Fig. 3.

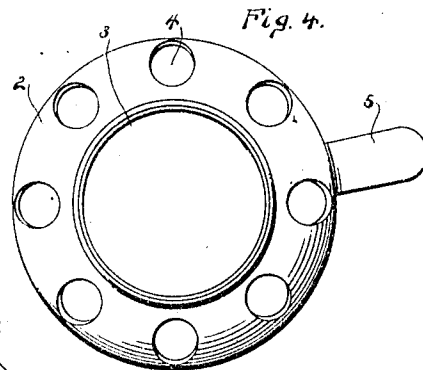


Fig. 4.

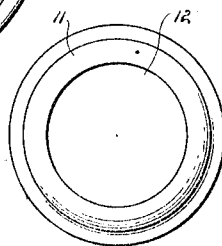


Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

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INVERTED BURNER.

1,035,639.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ADOLPH C. RECKER, a citizen of the United States, residing at Oakville, in the county of Litchfield and State of Connecticut, have invented a new and useful Improvement in Inverted Burners; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a broken view in side elevation of the upper portion of an inverted burner constructed in accordance with my invention. Fig. 2 a view thereof on an enlarged scale in vertical central section. Fig. 3 a detached plan view of the domical burner cap. Fig. 4 a corresponding view of the domical shutter. Fig. 5 a corresponding view of the washer.

My invention relates to an improvement in inverted burners for lamps of the mantle type, the object being to provide them at a low cost, with convenient and effective means for controlling the ingress of air into the chamber surrounding the Bunsen pipe.

With these ends in view my invention consists in certain details of construction and combinations of parts as will be hereinafter described and pointed out in the claim.

In carrying out my invention I employ a domical shutter 2 having a large central opening 3, and a concentric series of circular air-ingress slots 4 and provided with an integral radially extending finger-piece 5. This shutter fits snugly within the upper portion of the domical cap 6 of the burner-shell 7, the said cap being formed with a central opening 8, and a circular series of oblong air-ingress slots 9 corresponding in number to the slots 4 aforesaid. A horizontal slot 10 in the cap 6 provides for the outward passage through it of the finger-piece 5 and limits the oscillating movement of the shutter 2. The shutter is held in place near the upper end of the cap by means of a

washer 11 having a central opening 12, and held in place by the upper end of the Bunsen tube 13 upon which it rests, the said tube being internally threaded for the reception of the threaded lower end of the center tube 14 which is in effect a gas tube, and furnished with a valve not shown, and a button 15 for regulating the same in the usual manner.

It will be understood that the threaded lower end of the tube 14 passes through the circular central opening 3 of the shutter 2, through the circular opening 8 of the domical cap 6, and through the central opening 12 of the washer 11, as clearly shown in Fig. 3. The lower end of the cap 6 sets over the upper end of the burner shell 7 as clearly shown in Figs. 1 and 2. The upper edges of the cap 6 and washer 11 are pinched and held between the upper edge of the pipe 13 and the shoulder 16 upon the tube 4 as shown in Fig. 2. The outer edge of the washer 11 is struck downward with respect to its horizontal upper edge so as to conform to the pitch of the upper portion of the cap 6 and so as to produce an annular space 17 between the washer and the upper portion of the cap 6 for the reception of the upper edge of the shutter as clearly shown in Fig. 2, whereby the shutter is held in place and yet permitted to turn upon its upper edge as upon a center.

I claim:—

In an inverted lamp burner, the combination with the center-tube thereof, of a Bunsen-tube the upper end of which receives the threaded lower end of the center-tube, a burner shell encircling the Bunsen-tube, a domical cap applied to the upper end of the said shell and formed with a series of air-ingress slots, a domical shutter fitted within the domical upper end of the said cap and provided with a series of air-ingress slots, and with an outwardly projecting finger-piece, and a washer for holding the said domical shutter in place within the upper portion of the domical cap, the said domical cap and washer being gripped and held in

place between the center-tube and the Bunsen-tube and the said washer having its outer edge set downward at an angle with respect to its upper edge to form a space between it and the upper portion of the said cap for the reception and turning of the upper edge of the shutter.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

ADOLPH C. RECKER.

Witnesses:

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