No. 687,102. Patented Nov. 19, 1901.

W. D. ZIMMERMAN & O. B. CRAIG.

LAMP SECURING MECHANISM.

(Application filed Apr. 22, 1901.)

(No Model.)

Fig. 1.

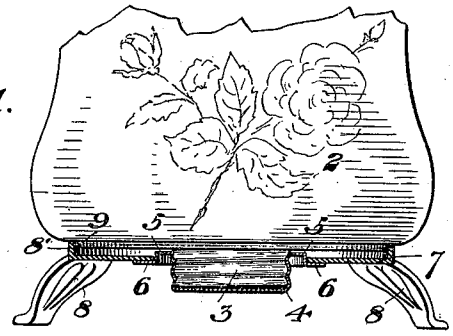


Fig. 2.

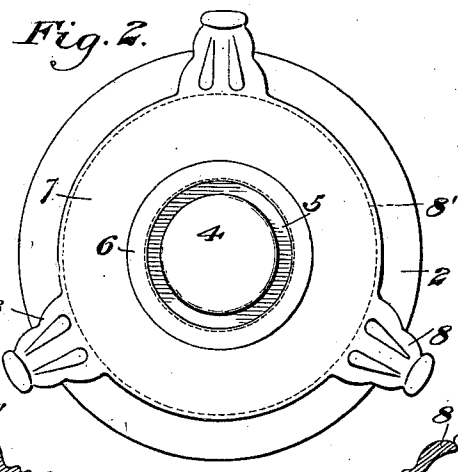


Fig. 5.

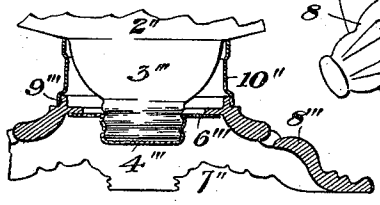


Fig. 4.

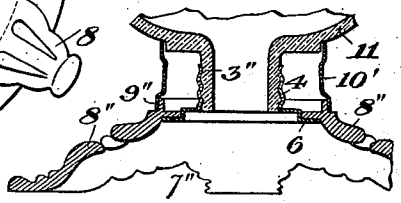
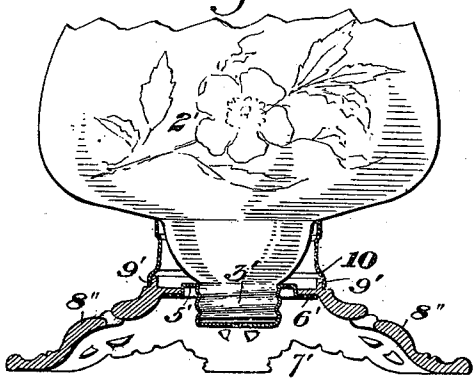


Fig. 3.



WITNESSES

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WILLIAM D. ZIMMERMAN AND ORLANDO B. CRAIG, OF PITTSBURG, PENNSYLVANIA, ASSIGNORS TO DITHRIDGE & COMPANY, OF PITTSBURG, PENNSYLVANIA, A COPARTNERSHIP ASSOCIATION OF PENNSYLVANIA.

LAMP-SECURING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 687,102, dated November 19, 1901.

Application filed April 22, 1901. Serial No. 56,864. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM D. ZIMMERMAN and ORLANDO B. CRAIG, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Lamp-Securing Mechanism, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a sectional side elevation showing our improved foot connection for the bowl or lamp-body. Fig. 2 is a bottom plan view of the same; and Figs. 3, 4, and 5 are detail views showing modified forms.

Our invention relates to the securing of the bowl of a lamp or similar article to the foot or base which supports the lamp, and is designed to do away with the clumsy and complicated screw-bolt and cross-bar connection now generally employed and provide a connection which can be more quickly applied and with less liability of detaching.

To that end it consists, broadly, in providing a central screw-threaded cap which engages the base and holds it in place, and, further, in providing the cap with a centering-shoulder to properly position the base or foot.

Referring to the forms of Figs. 1 and 2, 2 represents a lamp-body or bowl having a central downwardly-projecting boss or knob 3. This boss is screw-threaded, and with it coacts a metal cap 4, having suitable screw-threads and provided with the reversely-bent portion, affording a circular shoulder 5, terminating in a lateral annular flange 6. The base 7, which consists of an annulus with feet 8 projecting downwardly therefrom, is preferably provided with an upwardly-projecting rim 8′, fitting snugly against an annular shoulder 9, which may be formed integrally with the lamp-body. The central hole through the base is of proper size to receive the screw-cap, and in assembling the parts the base is merely fitted against the bottom of the bowl with the flange and shoulder engaging each other, and the cap 4 is then screwed on, thus securing a neat and simple joint between the parts.

In the form of Fig. 3 a spring ring or band 10 is interposed between the top portion of the foot and the base of the lamp, fitting around the shoulder 9′ on the base, and the knob 3′ is made correspondingly longer.

In Fig. 4 we show the fastening as applied to the vase or body of a central-draft lamp, in which the body 11 is provided with a hole at the bottom, the boss or knob 3″ being made hollow, so that the air can be drawn up through the fount.

In Fig. 5 we show another form, which is similar to Fig. 3, except that the shoulder 5 on the metal cap is done away with, the flange 6‴ projecting from the body of the cap 4‴. In this case the base is held centrally by the spring-rings 10″, the parts being otherwise as shown in Fig. 3.

The advantages of our invention flow from the use of the depending knobs, in connection with the metal cap having the projecting portion which engages the foot or base. The parts are fewer in number than with previous connections and can be more quickly applied. The cost of these lamps is therefore considerably reduced.

Many variations may be made in the form and arrangement of the parts without departing from our invention.

We claim—

1. A lamp-body having a central depending screw-threaded knob, an annular base surrounding the knob, a metal screw-cap engaging the knob and having a flange which contacts with the base and clamps it to the lamp-body, and means for centering the lamp-body upon the base, substantially as described.

2. A lamp-body having a depending screw-threaded knob, a base through which the knob projects, and a metal screw-cap engaging the knob and base, said cap and base having interfitting shoulders to center the base in position; substantially as described.

3. The combination with a body having a depending knob, of a metal cap engaging with the knob and having a centering-shoulder and a projection engaging the base; substantially as described.

In testimony whereof we have hereunto set our hands.

WILLIAM D. ZIMMERMAN.
ORLANDO B. CRAIG.

Witnesses:
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