

T. J. LITTLE, JR.
 GUARD FOR INVERTED INCANDESCENT MANTLES.
 APPLICATION FILED FEB. 10, 1911.

1,058,377.

Patented Apr. 8, 1913.

Fig. 1.

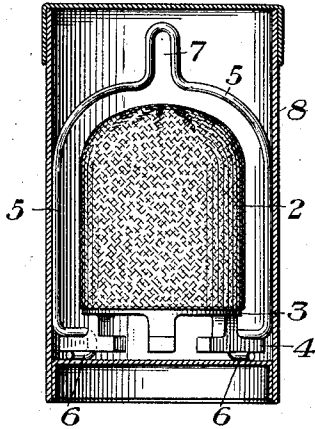


Fig. 2.

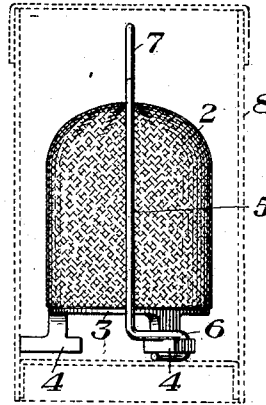


Fig. 3.

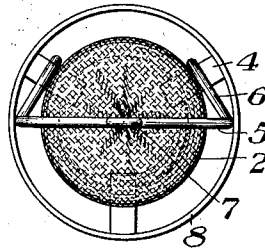


Fig. 4.

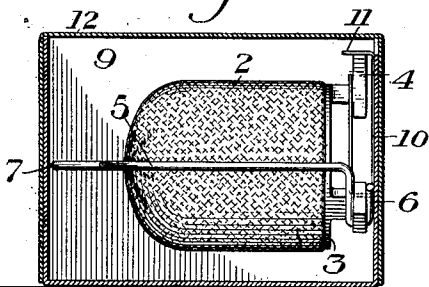
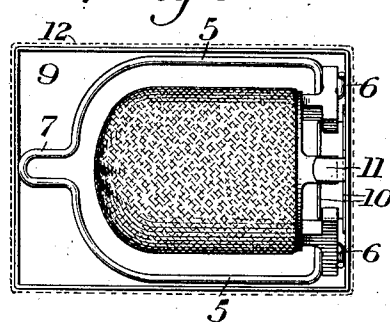


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

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GUARD FOR INVERTED INCANDESCENT MANTLES.

1,058,377.

Specification of Letters Patent.

Patented Apr. 8, 1913.

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To all whom it may concern:

Be it known that I, THOMAS J. LITTLE, JR., a resident of Woodbury, Gloucester county, State of New Jersey, have invented a new and useful Improvement in Guards for Inverted Incandescent Mantles, 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 a mantle provided with my improved guard in a cylindrical box; Fig. 2 is a side elevation of the mantle taken at right angles to that of Fig. 1; Fig. 3 is a top plan view of the same in the packing box; and Figs. 4 and 5 are sectional views at right angles to each other showing the mantle in a square packing box.

My invention relates to mantles for inverted incandescent gas lamps, and is designed to provide a simple and efficient guard therefor which will protect the mantle both in shipping and handling, and will also provide a handle by which the mantle may be applied and removed without danger of injury thereto.

In the drawings, 2 represents the mantle which may be of the ordinary form for inverted incandescent lamps, its open end being secured to the usual refractory ring 3, having the integral radial legs or prongs 4. These prongs are usually spaced equidistantly about the ring. To the projecting portions of two of these ring legs, I secure the ends of the loop-shaped wire guard 5, preferably by bending these ends about the legs, and if desired, cementing the hook portions 6 in place. The legs may be and preferably are grooved to receive these wire hooks. From the hook portion, the wire is bent sidewise so as to bring the opposite arm portions 5, 5 of the wire at diametrically opposite sides of the mantle. The intermediate portion 7 of the wire is preferably bent into the form of a projecting handle by which the mantle may be inserted in the box, applied, etc.

When the mantle is taken by the guard handle 7 and slipped into a cylindrical paste-board box, such as shown as 8 in Figs. 1 and 2, the wire will contact with the sides of the box and frictionally hold the mantle in place, together with the refractory prongs or legs 4, which also preferably engage the

sides of the box. The arms 5, 5 of the wire guard are spaced apart from the mantle to about the same distance as the edges of the legs 4, so as to firmly hold the mantle in place in the box. The guarded mantle may also be shipped in a square or angular box, such as shown at 9 in Figs. 4 and 5, this box having a metallic clip 10, secured to an inner end wall. This clip is arranged to receive the inwardly projecting portions of two of the legs, the clip having a lug portion 11 which may be bent up against the end of the third leg on the open side of the box, thus holding it in place. The wire guard does not interfere with this clip holding in the square box, but assists in guarding and holding the mantle in place in such box. This square box has a removable cover 12, the two members telescoping sidewise over each other.

The advantages of my invention result from the simplicity and effectiveness of the guard which may be easily bent up out of wire or similar material and attached to the legs or prongs of the base ring. The guard protects the mantle during handling and is easily and cheaply applied to the existing forms of rings. The handle also provides for easy handling of the mantle without danger of the fingers touching the mantle and injuring it.

Changes may be made in the form and arrangement of the wire, the mantle, etc., without departing from my invention.

I claim:

1. A mantle guard for inverted incandescent mantles formed from a single piece of wire having two vertically extending arms, and a hook member at the upper end of each of said arms, said hook member being arranged to engage the tops and bottoms of two of the projections on the mantle-supporting ring; substantially as described.

2. An incandescent mantle secured to a supporting ring, radially extending supporting legs on the mantle ring, a mantle guard formed from a single piece of wire having vertical legs on opposite sides of the mantle, and a hook member at the upper end of each of said arms each engaging the top and bottom of one of the legs on the mantle-supporting ring; substantially as described.

3. An inverted incandescent mantle secured to a supporting ring, radially extending legs on the mantle ring, a mantle guard

and handle formed from a single piece of
wire having vertical legs on opposite sides of
the mantle, a downwardly extending handle
loop at the junction of said arms, and hook
5 members at the upper ends of said arms en-
gaging the tops and bottoms of the legs on
the mantle ring; substantially as described.

In testimony whereof, I have hereunto set
my hand.

THOMAS JAMES LITTLE, JR.

Witnesses:

J. H. JOHNSON,

A. G. HENSEL, JR.

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