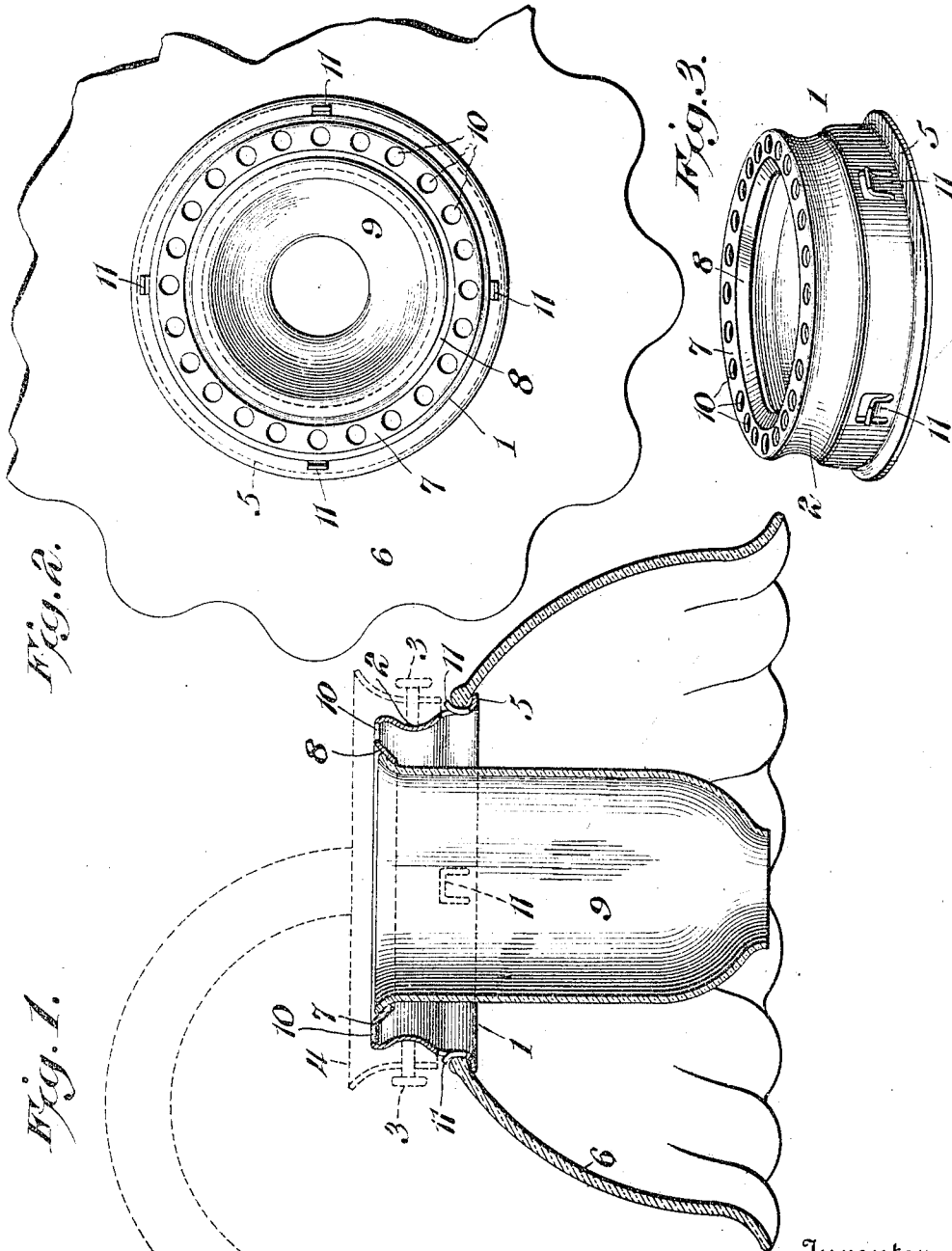


S. F. ELKINS.
 SHADE HOLDER FOR INVERTED GAS BURNERS.
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960,630.

Patented June 7, 1910.



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UNITED STATES PATENT OFFICE.

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SHADE-HOLDER FOR INVERTED GAS-BURNERS

960,630.

Specification of Letters Patent.

Patented June 7, 1910.

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To all whom it may concern:

Be it known that I, STEPHEN F. ELKINS, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Shade-Holder for Inverted Gas-Burners, of which the following is a specification.

The invention relates to improvements in shade holders for inverted gas burners.

10 The object of the present invention is to improve the construction of shade holders for inverted gas lamps, and to provide a simple, inexpensive and efficient supporting ring, adapted to support an outer shade and
15 an inner cylinder or chimney in spaced relation, and provided with means for permitting a free passage of air through the space between the outer shade and inner cylinder, whereby the brilliancy of the light is in-
20 creased and the outer shade is maintained sufficiently cool to prevent it from becoming broken through sudden drafts.

With these and other objects in view, the invention consists in the construction of
25 novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims here-to appended; it being understood that vari-
30 ous changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to with-
out departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a vertical
35 sectional view of a shade holder, constructed in accordance with this invention and shown supporting an outer shade and an inner cyl-
inder or chimney. Fig. 2 is a plan view of the same. Fig. 3 is a perspective view of
40 the shade holder.

Like numerals of reference designate cor-responding parts in all the figures of the drawing.

In the embodiment of the invention illus-
45 trated in the accompanying drawing, the shade holder consists of a metallic support-
ing ring 1, constructed of a single piece of metal and provided intermediate of its top
50 and bottom with an annular groove or in-
dentation 2, adapted to be engaged by clamp-
ing screws 3 of a burner 4 into which the
supporting ring fits in the ordinary manner.
The supporting ring is provided at the bot-
55 tom with an outwardly extending annular
flange 5, forming a seat for an outer shade

6, which may be of any preferred style or configuration. The supporting ring is in-
serted through the opening at the top of the
outer shade from beneath, and when the sup-
porting ring is applied to a burner, the
60 shade will be firmly supported in its usual
position.

The supporting ring is provided at the
top with an inwardly extending annular
flange 7, having an inner inclined portion 8,
65 forming a seat for an inner cylinder or
chimney 9, which is supported in spaced re-
lation with the outer shade, as clearly illus-
trated in Fig. 1 of the drawing. The hori-
zontal portion of the annular flange 7 is
70 provided with an annular series of vent
apertures 10, adapted to permit the hot air
to pass upward freely through the inter-
vening space between the inner cylinder or
chimney and the outer shade. The main-
75 taining of an upward current of air
through the said space and a constant
changing of air between the outer shade and
the inner cylinder prevents any accumula-
80 tion of the heat produced by the burner,
and the outer shade is maintained in a rela-
tively cool condition; so that there is no
danger of its being broken through unequal
expansion produced by sudden drafts of air
85 on portions of it. Also the upward current
of air through the space between the inner
cylinder and the outer shade, prevents sud-
den drafts from striking the mantle and
interfering with proper combustion.

The supporting ring is provided at inter-
90 vals with integral tongues 11, extending up-
wardly and outwardly and engaging the
upper edge of the outer shade, and adapted
to maintain the same on the lower seat
95 formed by the outwardly extending bottom
flange. The tongue engages the outer shade
with sufficient force to sustain the support-
ing ring and the inner cylinder when hand-
ling the device by the outer shade in fitting
the ring to and removing the same from a
100 burner.

Having thus fully described my invention,
what I claim as new and desire to secure by
Letters Patent, is:—

1. A shade holder consisting of a support-
105 ing ring provided with inner and outer seats
spaced apart and arranged to receive the
outer shade and an inner chimney or cylin-
der and spacing the same from each other,
said ring being provided in its exterior
110

above the outer seat with an annular groove to receive the clamping means of a burner, and having vent apertures located at the top of the space between the shade and chimney and communicating directly with the exterior for permitting air to pass through the space between the outer shade and the inner chimney or cylinder.

2. A shade holder consisting of a ring provided with exterior means for supporting an outer shade and having an annular groove above the said means to receive the clamping devices of a burner, and having an inwardly extending flange forming a seat and arranged to hold a cylinder or chimney in spaced relation with the outer shade, said flange being also provided with apertures to permit the passage of air through the space between the outer shade and the inner chimney or cylinder.

3. A shade holder consisting of a ring provided with exterior means for supporting an outer shade and having an inwardly extending flange forming a seat and arranged to hold a chimney or cylinder in spaced relation with the outer shade, said flange being also provided with apertures to permit the passage of air through the space between the outer shade and the inner chimney or cylinder.

4. A shade holder consisting of a ring provided with exterior means for supporting an outer shade and having an inwardly extending annular flange composed of an outer horizontal portion and an inner inclined portion forming a seat for a chimney

or cylinder, the horizontal portion of the flange being provided with apertures to permit the air to pass freely between the outer shade and the inner chimney or cylinder.

5. A shade holder consisting of a supporting ring constructed of a single piece of metal and provided at the lower edge with an outwardly extending shade supporting flange and having an inwardly extending annular flange at the top, the inwardly extending flange being provided with an inner downwardly inclined portion to form a seat for a chimney or cylinder, the top flange being also provided with apertures to permit the passage of air through the ring.

6. A shade holder consisting of a supporting ring constructed of a single piece of metal and provided at its lower edge with an outwardly extending shade supporting flange and having an annular groove above the said flange to receive the clamping devices of a burner, said ring being also provided at the top with an inwardly extending annular flange having an inner downwardly inclined portion to form a seat for a chimney or cylinder, the top flange being also provided with apertures to permit the passage of air through the ring.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

STEPHEN F. ELKINS.

Witnesses:

R. S. GIESE,
E. M. BLATT.