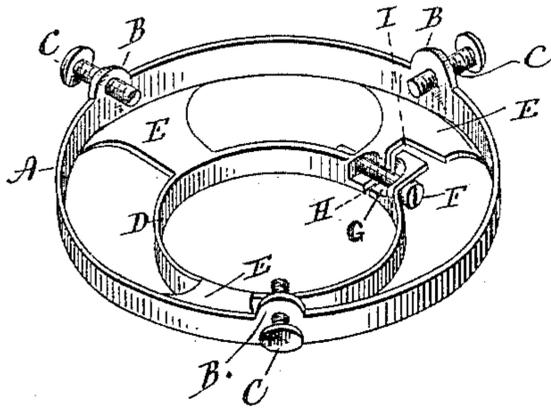


(No Model.)

R. J. ASHWORTH.
SHADE HOLDER.

No. 442,410.

Patented Dec. 9, 1890.



Witnesses.
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UNITED STATES PATENT OFFICE.

RICHARD J. ASHWORTH, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
WATERBURY MANUFACTURING COMPANY, OF SAME PLACE.

SHADE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 442,410, dated December 9, 1890.

Application filed January 20, 1890. Serial No. 337,476. (No model.)

To all whom it may concern:

Be it known that I, RICHARD J. ASHWORTH, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new
5 Improvement in Shade-Holders; and I do hereby declare the following, when taken in connection with accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same,
10 and which said drawing constitutes part of this specification, and represents a perspective view of my improved shade-holder.

Heretofore shade-holders for incandescent electric-light lamps have been either cast in
15 one piece or made of two or more pieces of wrought metal. In either case the articles have been expensive and clumsy and in some cases inconvenient of use.

The object of my invention is to obviate the
20 objections above mentioned and to produce at a low cost for manufacture a shapely, strong, and convenient article.

With these ends in view my invention consists in a shade-holder having certain details
25 of construction as will be hereinafter described, and pointed out in the claim.

As herein shown, my improved device consists of a shade-holding ring A, provided with three ears B, carrying thumb-screws C, an
30 open adjustable clamping-ring D, located within the shade-holding ring and concentric therewith, three wide flat arms E, connecting the two rings, and a binding-screw F, connecting the free end of the clamping-ring with the
35 arm adjacent thereto, the said parts, except the screws, being struck out from one piece of wrought metal. At the junction of one of the arms and the clamping-ring the metal is upset from the inside of the holder to form a
40 hollow boss or shoulder G. The said clamping-ring is cut open to form a free end from it by a slot H, extending radially through the said shoulder or boss and into that one of the said arms from which the same is formed, the
45 outer end of the said slot being intersected by a slot I, whereby a portion of the arm and shoulder is detached to form an extension of the freed end of the clamping-ring and a bearing for one end of the clamping-screw, the
50 other end whereof is connected with the remaining part of the said slotted arm and, as

herein shown, enters the remaining part of the boss. Preferably enough metal is removed in forming the slots to secure the clearance required for the adjustment of the free end
55 of the clamping-ring. It will be noticed that the arms are arranged so that the space adjacent to the free end of the clamping-ring is longer than the remaining spaces, whereby the said end of the ring is made more elastic
60 than it would be were the arms arranged at equal distances apart, as is commonly done. The said arms by being made wide serve excellently well to support the shade when the device is used in an upright position. If
65 greater elasticity is desired, one of the arms may be dispensed with.

By striking it out of a single piece of sheet metal my improved shade-holder may be
70 cheaply produced and in more pleasing and workmanlike forms than when cast or made of several parts riveted together. It is more elastic and convenient than the cast holders and stronger, and often more convenient and elastic than the sectional holders.
75

It is apparent that in carrying out my invention I may make some changes in the particular form herein shown and described, and I would therefore have it understood that I
80 do not limit myself to such form, but hold myself at liberty to make such changes and alterations therein as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim, and desire to secure by Letters Pat-
85 ent, is—

A shade-holder having a shade-holding ring, an open adjustable clamping-ring located within the same, and arms uniting the two rings, which, with the arms, are struck out of
90 a single piece of wrought metal, the metal being upset from the inside of the holder at the junction of one of the arms and the clamping-ring to form a hollow shoulder or boss, which is cut into to free one end of the clamping-
95 ring and to form bearings for the binding-screw, by which the same is adjusted, substantially as described.

RICHARD J. ASHWORTH.

Witnesses:

ARTHUR D. NOBLE,
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