

(No Model.)

F. RHIND.
SHADE HOLDER.

No. 373,154.

Patented Nov. 15, 1887.

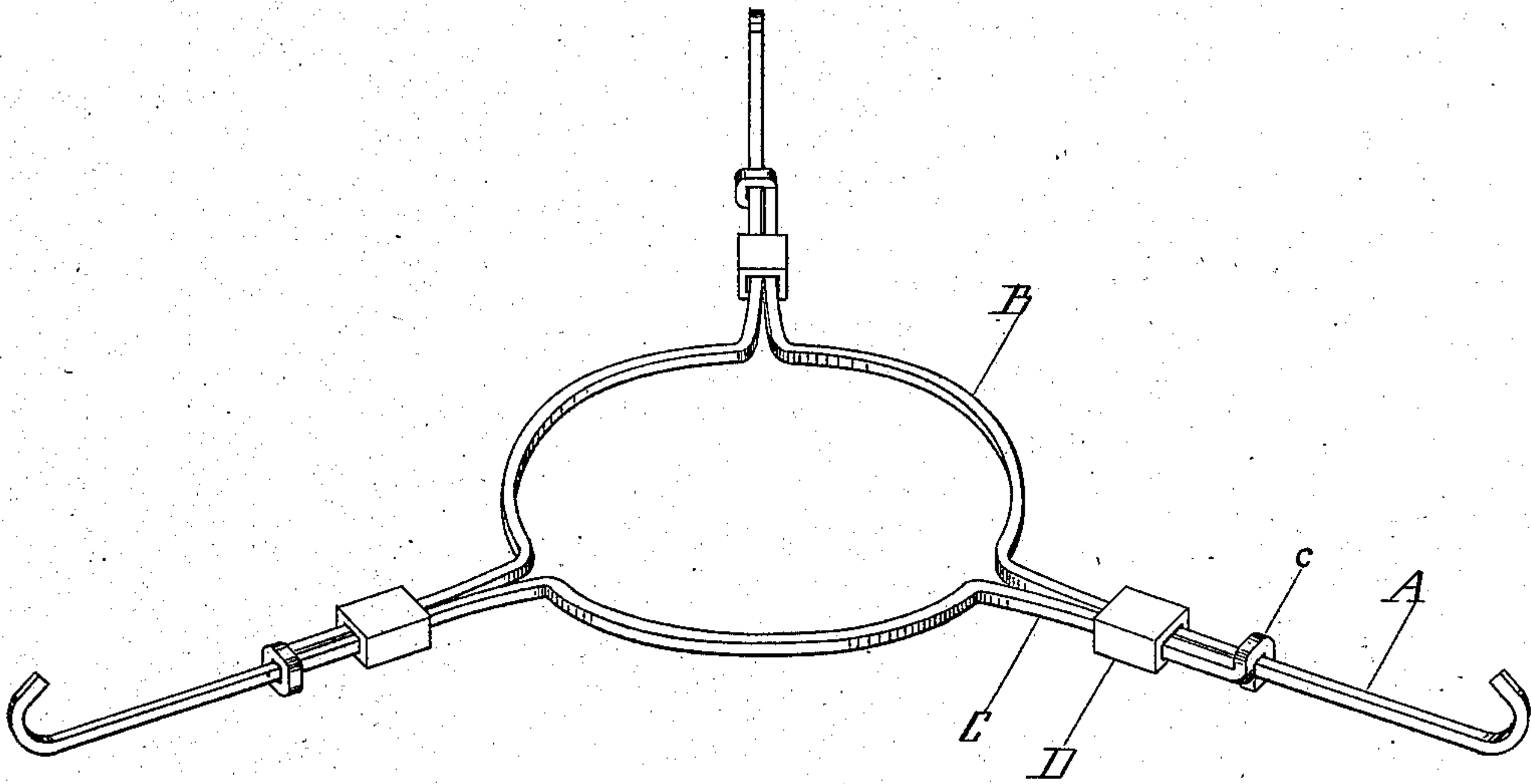


Fig. 1

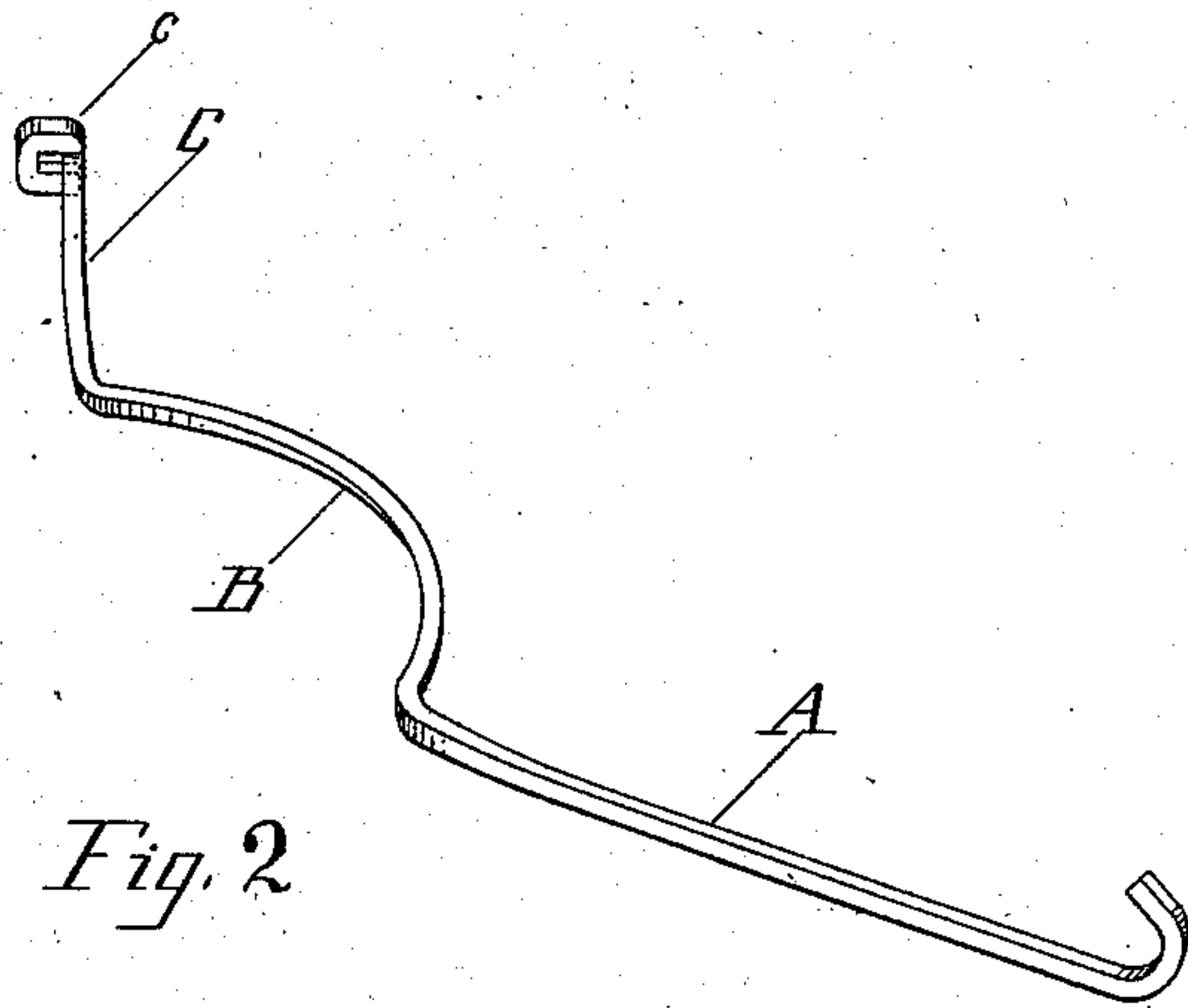


Fig. 2

WITNESSES
S. J. Roky
Geo. W. Shuttenden

Frank Rhind
INVENTOR
per Geo. L. Cooper Atty.

UNITED STATES PATENT OFFICE.

FRANK RHIND, OF MERIDEN, CONNECTICUT, ASSIGNOR TO EDWARD MILLER
& COMPANY, OF SAME PLACE.

SHADE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 373,154, dated November 15, 1887.

Application filed May 2, 1887. Serial No. 236,828. (No model.)

To all whom it may concern:

Be it known that I, FRANK RHIND, a citizen of the United States, residing at Meriden, county of New Haven, and State of Connecticut, have
5 invented an Improvement in Shade-Holders adapted to Lamps and Gas-Fixtures, of which the following is a specification.

My invention relates to that class of shade-holders which has a central ring adapted to
10 encircle a burner or lamp-collar and three or more arms projecting radially therefrom, said arms being in two parts connected at their outer ends and fitted with sliding ferrules or clasps, whereby the central ring is made ad-
15 justable to various sizes of burners and lamp-collars, and is intended to provide a cheap and simple method of securing such adjustability.

In the accompanying drawings, Figure 1
20 represents in perspective a shade-holder embodying my improvements; Fig. 2, a detached integral portion of the same, consisting of an arm, a part of the central ring, and a brace or stiffener for an adjacent arm.

25 A designates an arm of a shade-holder; B, an arc-shaped portion of the central ring; C, a brace or stiffener; c, an eye formed at the end of the brace C; D, a sliding ferrule or clasp.

Similar letters refer to similar parts in both
30 views.

My invention is constructed and operated as follows: I form from a single piece of wire or band metal an arm, A, bent at its outer end to receive and support a shade-holder, an arc-
35 shaped portion of a central ring, B, and a brace, C, having at its outer end, and substantially at right angles to its length, an eye or loop, c. The brace C is made shorter than the arm A, as it is found in practice that shade-
40 holder arms of this general form have little or no tendency to bend or sag under the weight of the shade at their outer ends, but that strength is most needed at and near the junction of the arm and the central ring. The eye
45 or loop c at the end of the brace C is adapted to closely clasp the arm A of a similarly-shaped

or otherwise attached to it. In constructing a "tripod" the part B is formed to the shape of an arc of one hundred and twenty degrees, 50 with the integrally-formed arm A and brace C projecting radially therefrom at the same angle. Three such integral pieces are then put together. The eye or loop c, already partly formed, is then finished and firmly closed on 55 the adjacent arm A. Sliding ferrules or clasps D are clasped on the arm A and brace C. When the ferrules D are pushed out nearly to the eyes c, the arms A and braces C may be slightly sprung or forced apart at their inner 60 ends, thereby enlarging the size of the central ring to enable it to be passed over a bead or projection on a burner or lamp collar, or to be adapted to small differences in the size of such burners or collars. When the ferrules D are 65 brought as near as possible to the ends of the arc-shaped portions B, the central ring is reduced in size and is held firmly to the burner or collar. I have found it advantageous to use wire having a rectangular or polygonal sec- 70 tion; but this is non-essential to my invention. As shade-holders of this class are usually made in tripod form, I have illustrated this construction in my drawings and described it herein; but it is obvious that my invention is 75 applicable to any convenient number of arms, and that these arms may be either bent at their outer ends to receive and support a shade, or they may be fitted with a ring for this purpose. 80

I am aware that shade-holders having arms composed of two wires clasped by a sliding ferrule have been heretofore made, and that a patent for this invention was granted to E. E. Conrad, dated June 21, 1870, and numbered 85 104,558. It is found, however, that shade-holders made as shown in Figs. 1, 2, and 3 of said patent are expensive to manufacture, contain unnecessary weight of metal, and are liable to serious breakage where the wire is bent 90 back on itself at the end of the arms, while the integral arm, arc, and brace described herein are easily and cheaply formed by means of dies, and provide strength where needed

without waste of material. I do not, therefore, claim anything claimed or described in above patent; but

I claim, and desire to secure by Letters Patent, as follows:

A shade-holder formed of three or more integral parts, each consisting of an arm, an arc of a central ring, and a brace connected to but

shorter than the adjacent arm, said brace being provided with an eye or loop adapted to engage said adjacent arm, substantially as described, and for the purposes set forth.

FRANK RHIND.

Witnesses:

GEO. L. COOPER,

GEO. M. CHITTENDEN.