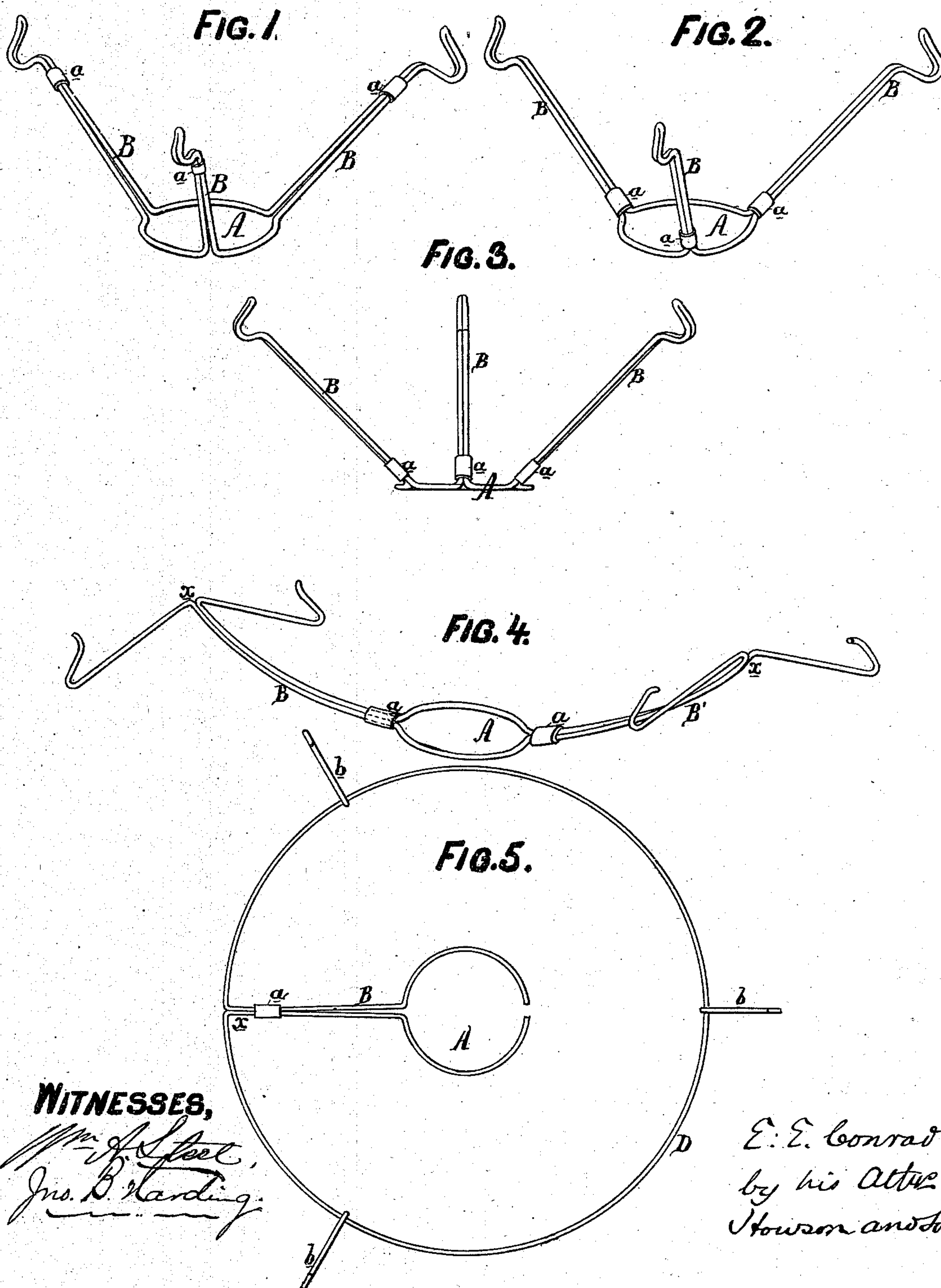


E. E. CONRAD.  
Lamp Shade Supporter.

No. 104,558.

Patented June 21, 1870.





# UNITED STATES PATENT OFFICE.

ERNST EUSTACH CONRAD, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR  
TO HENRY COULTER AND BARTON H. JONES, OF SAME PLACE.

## IMPROVEMENT IN LAMP-SHADE SUPPORTERS.

Specification forming part of Letters Patent No. **104,558**, dated June 21, 1870; antedated June 13, 1870.

I, ERNST EUSTACH CONRAD, of Philadelphia, county of Philadelphia, State of Pennsylvania, have invented an Improved Shade-Holder for Lamps and Gas-Burners, of which the following is a specification:

### *Nature and Object of the Invention.*

My invention consists of a shade-holder having an arm or arms for supporting the shade, one or more of the said arms being composed of two wires, forming a continuation of or attachment to a central hoop, and provided with a sliding ferrule, by means of which the said hoop may be made to tightly embrace the burner, all substantially as described hereafter.

My invention further consists of the peculiar modes, described hereafter, of constructing shade-holders of wire.

The object of my invention is to produce simple and economical, and at the same time efficient, holders for lamp and gas shades.

### *Description of the Accompanying Drawing.*

Figures 1 and 2 are perspective views of my improved lamp-shade holder; Fig. 3, a side view of the same; Fig. 4, a perspective view, illustrating a modification of my invention; and Fig. 5, a plan view, showing another modification of my invention.

### *General Description.*

The shade-holder illustrated by Figs. 1, 2, and 3 consists of a single piece of wire, bent to the form shown, so that there shall be a central hoop, A, from which radiate three arms, B B B, each arm being bent at the end for receiving the edge of the shade, and each arm consisting of two wires, forming continuations of the central hoop of the holder, as clearly shown in the drawing. To each arm B is fitted a sliding ferrule, *a*, and when the ferrules of the three arms have been moved to the outer bent ends of the same the central hoop, A, will be increased in diameter, or can be so expanded as to fit over the burner of the lamp, after which, by sliding the ferrules down the arms, the hoop is made to tightly embrace the burner.

A holder similar to that described is well adapted for heavy glass shades.

It is not essential that all of the three arms should be provided with sliding ferrules, as one, or even two, of the arms may be permanent, or form rigid unyielding continuations

of, or may be properly secured to, the central hoop, while the remaining arm may consist of two wires embraced by a ferrule, as described.

The holder illustrated by Fig. 4 consists of two wires so bent and adapted to each other that there shall be a central hoop, A, from which project two arms, B and B', the wires comprising each arm being united at *x* only, from which point they are bent outward in contrary directions, and so formed at the end as to receive the edge of a shade. Each arm is in the present instance provided with a sliding ferrule, by means of which the central hoop may be contracted and made to tightly embrace the burner, in the manner described above.

One of the arms, B or B', may be permanent or rigid, while the remaining arm is made in the manner described, and is furnished with a sliding ferrule.

In the modification illustrated by Fig. 5 the holder consists of a ring, D, made of one piece of wire, united at *x*, where it is so bent as to form the double arm B, and the central hoop, which can be made to gripe the burner by the sliding ferrule *a*.

To the ring D are attached three wires, *b b b*, so bent at the ends as to receive the edge of the shade.

### *Claims.*

1. A shade-holder having an arm or arms for supporting a shade, one or more of the said arms being composed of two wires, forming continuations of or attached to a central hoop, and provided with a sliding ferrule, all substantially as described.

2. A shade-holder made of wire, bent as described, and as illustrated in Figs. 1, 2, and 3 of the drawing.

3. A shade-holder made of two wires, bent, adapted, and secured to each other, as shown by Fig. 4.

4. The shade-holder composed of the wire ring D, its projections *b*, the arm B, and central hoop, A, as described, and as illustrated Fig. 5.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNST EUSTACH CONRAD.

Witnesses:

F. X. RAIMOND,  
T. A. STEIGER.