

(No Model.)

G. W. DEMMICK.

GUARD AND SHADE HOLDER FOR INCANDESCENT LAMPS.

No. 516,801.

Patented Mar. 20, 1894.

FIG. 1.

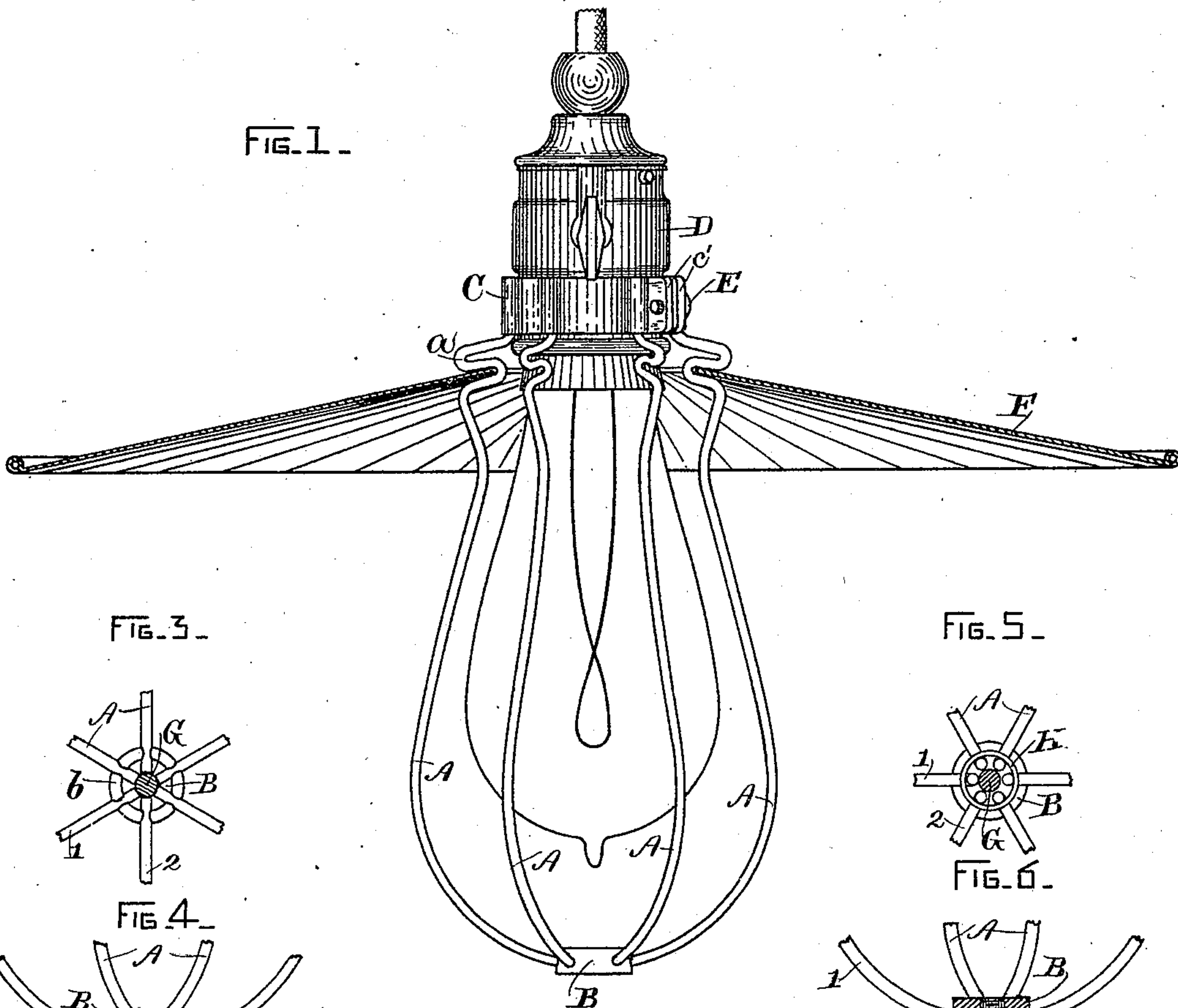


FIG. 3.

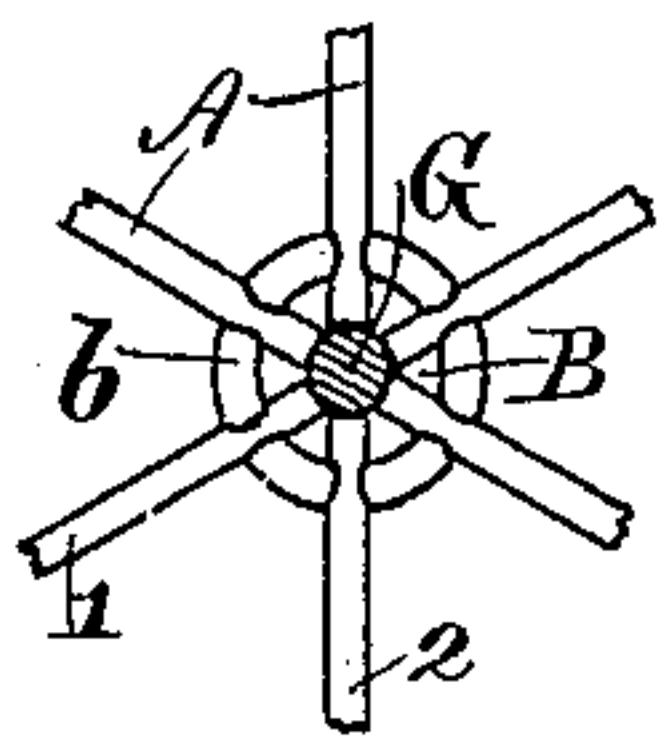


FIG. 4.

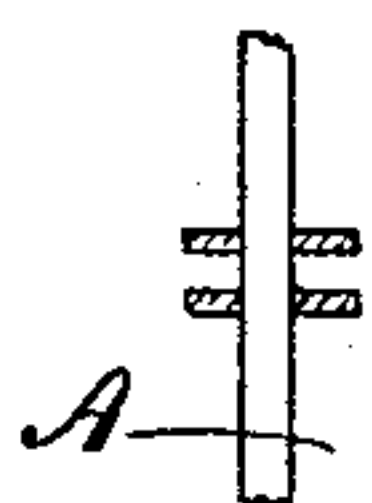
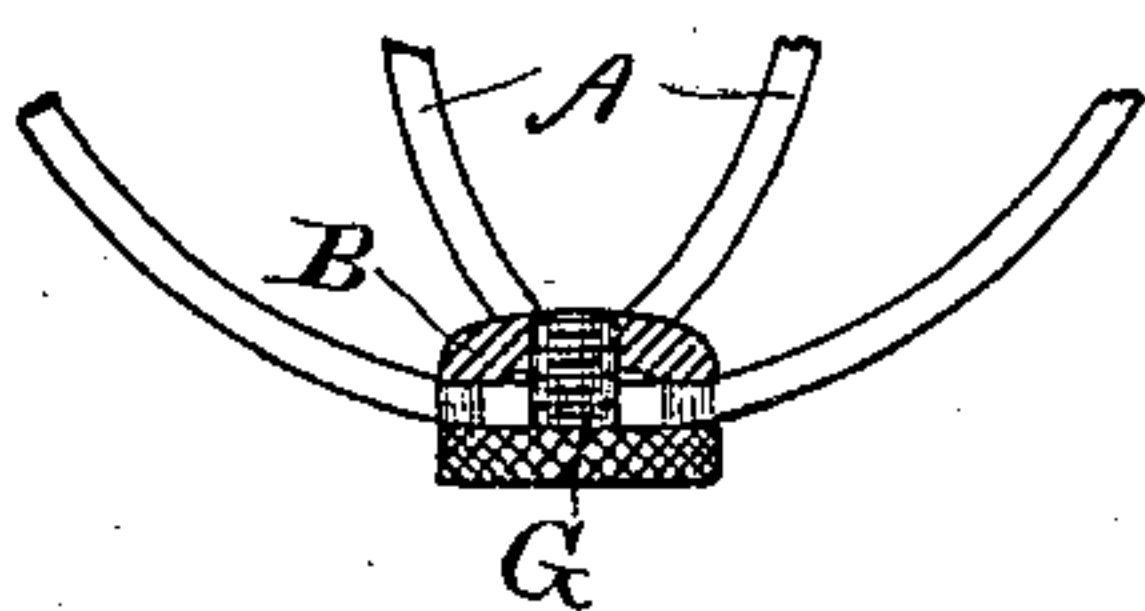


FIG. 7.

FIG. 2.

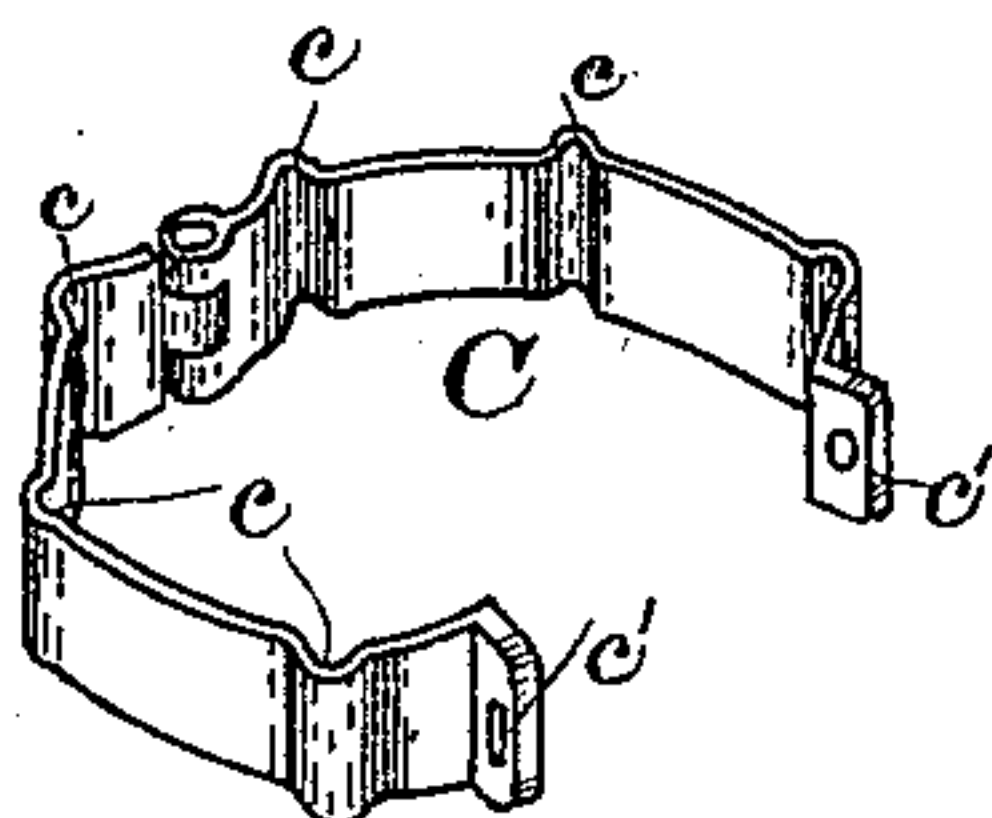


FIG. 5.

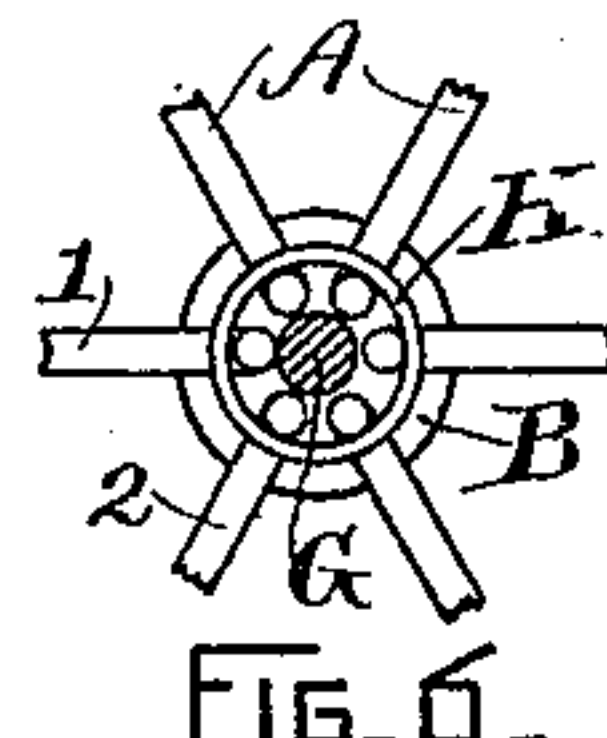


FIG. 6.

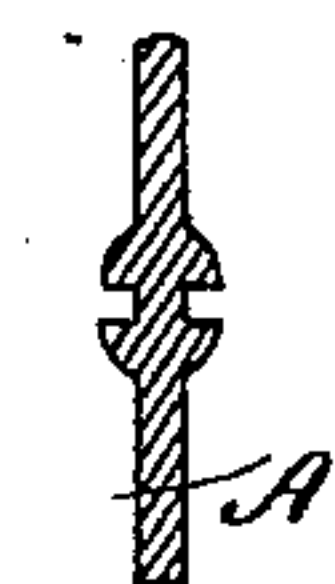
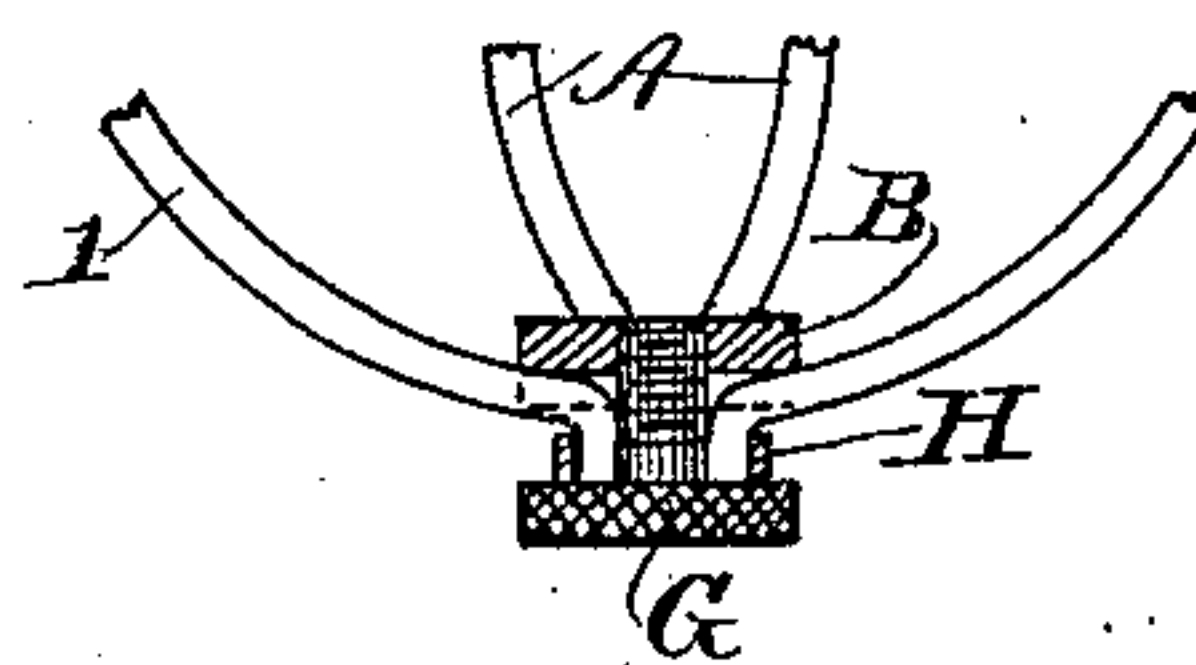


FIG. 8.

WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## GUARD AND SHADE-HOLDER FOR INCANDESCENT LAMPS.

SPECIFICATION forming part of Letters Patent No. 516,801, dated March 20, 1894.

Application filed November 23, 1892. Serial No. 452,902. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. DEMMICK, a citizen of the United States, residing at Lynn, county of Essex, State of Massachusetts, have invented a certain new and useful Improvement in a Combined Guard and Shade-Holder for Incandescent Lamps, of which the following is a specification.

This invention relates to a combined guard and shade holder for incandescent electric lamps and embodies improvements over the guard described and claimed in my Patent No. 479,791, of August 2, 1892, in which patent there is shown a number of flexible strips or wires secured together at one end, the other ends of such strips being free so that they may be sprung over the incandescent lamp and then clamped in position around the same.

The present invention consists in so shaping or bending the free ends of the flexible wires or elastic strips that they will engage with the shade placed in the usual position near the socket of the lamp.

It also consists in a clamp for holding the lower ends of the guard wires.

The improvement is illustrated in the accompanying drawings in which—

Figure 1 is an elevation showing the shade in section. Fig. 2 is a perspective of the clamp for the upper ends of the guard wires. Figs. 3 and 4 show a clamp for the lower ends of the wires. Figs. 5 and 6 illustrate a modification thereof, and Figs. 7 and 8 are modifications of the shade holding parts.

In Fig. 1 the guard is shown as composed of wire or small rods of metal A, A, firmly and permanently attached to the plate B which may be a ring to which the wires are soldered, or the wires may be simply soldered together at this point.

C is an adjustable or elastic clamp adapted to bind the free ends of the wires between it and the shell D of the lamp socket, this clamp being bent or indented at c, c for the reception of the wires, and provided with a fastening device for its free ends, such as a screw E drawing together the outwardly turned ends c', c' of the clamp. So far the construction departs in no essential particular

from what is shown in the Patent No. 479,791 referred to.

One part of the present invention consists in giving the wires A, A, A a double bend at the point a, as clearly shown in Fig. 1, which bend is well adapted to receive the edge of a shade or reflector F, as shown, and which, when the wires are held firmly in the clamp, gives a strong and stiff support for the reflector. Shade holders for incandescent lamps are often secured to the pipe or support to which the lamp socket is screwed and being sometimes made of metal punchings are apt to bend out of shape. This injury to such a holder is particularly liable to occur when the incandescent lamp is required to be moved about from one place to another, as the temptation is strong to use the shade holder as a handle. In attaching the present shade holder and lamp guard to a lamp socket the wires are first passed over the lamp and then sprung together so as allow them to pass through the opening in the reflector. They are then disposed in proper position over the edge of the reflector after which the lamp socket is placed in position, the free ends of the wire occupying the indentures c, c of the clamp, which is then tightened upon the socket. By this construction the reflector is held very firmly in place while the lamp is thoroughly protected from breakage by the guard wires. Moreover, the advantage of obtaining a strong and durable shade holder by modifying the construction of the prior patent is gained at scarcely any additional expense.

The invention is of course not limited to the precise configuration of the wires as shown at a, as it is evident that a double upsetting of the wires could be made as shown in Fig. 8, and the edge of the reflector be held between lips so formed; or again, two small washers could be fastened to the wire as shown in Fig. 7, and the edge of the reflector be inserted between them; but the construction shown is the cheapest, strongest and best.

In order to provide for the removal and insertion of the lamp without disturbing the shade, a device similar to those shown in



Figs. 3 to 6 may be used. The ends of one or more wires are not permanently attached to the plate B, but are left free so that they may be sprung aside when a lamp is to be  
 5 taken out or put into the socket. A suitable clamping device holds these wires in place. As shown in Figs. 3 and 4, the plate B is provided with a flange *b* containing notches to receive the ends of the wires. The free wires  
 10 1 and 2, have heads to catch on the flange, where they are held by the head of a screw G tapped into the plate B.

The modification shown in Figs. 5 and 6 is very similar, the ends of the wires being  
 15 hooked. When the free wires 1 and 2 are brought into their proper notches in the plate B, a ring H is slipped over them, and the head of the screw G holds the ring in place. The ring may be integral with the screw head,  
 20 if desired.

What I claim as new, and desire to secure by Letters Patent, is—

1. A combined guard and shade holder for an incandescent electric lamp, composed of  
 25 wires having their upper and lower ends secured together and having a double bend near their upper ends, substantially as set forth.

2. A guard for an incandescent electric lamp, composed of wires provided with a double bend adapted to engage the edge of the  
 30 shade and having their lower ends secured to

a plate, one or more of said wires being removably attached to said plate, substantially as described.

3. A wire guard for an incandescent electric lamp, composed of wires provided with a double bend adapted to engage the edge of the shade and having their lower ends fastened to a plate, one or more of said wires being removably attached to said plate, and  
 40 a screw for clamping the ends of said wires, substantially as set forth.

4. In a guard wire for an incandescent electric lamp, the combination with the plate B having notches, of the wires A having their  
 45 ends inserted in the notches and a screw engaging with the ends of the wires, substantially as described.

5. In a guard for an incandescent electric lamp the combination with the plate B having a flange *b* containing notches, of the wires  
 50 A, one or more of which have heads to engage with said flange, and a screw G for holding said wires in place, substantially as described.

In witness whereof I have hereto set my hand this 21st day of November, 1892.

GEORGE W. DEMMICK.

Witnesses:

JOHN W. GIBBONEY,  
 BENJAMIN B. HULL.