No. 741,129. PATENTED OCT. 13, 1903.

W. H. GREENWOOD.

LAMP PROTECTOR.

APPLICATION FILED FEB. 6, 1903.

NO MODEL.

FIG. 1.

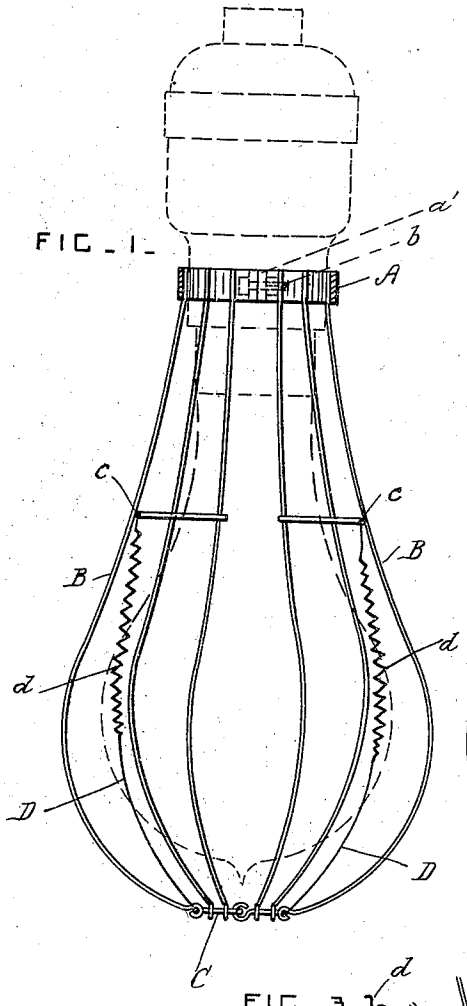


FIG. 2.

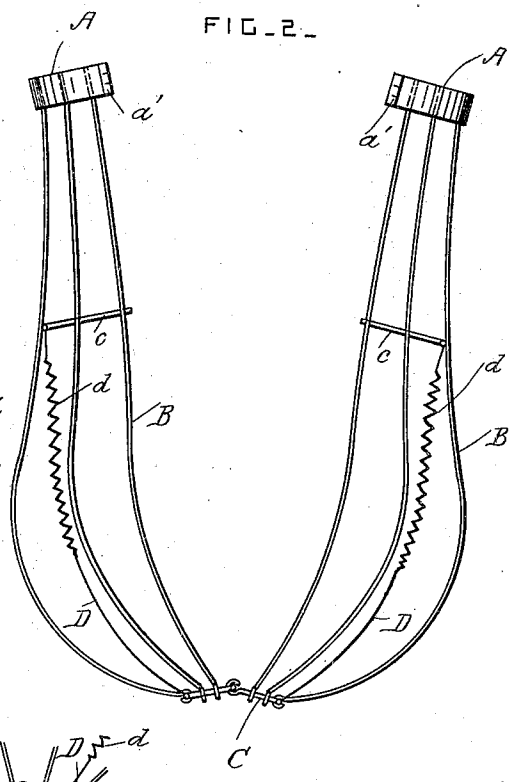
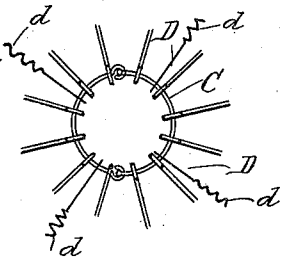


FIG. 3.



WITNESSES

Walter Allen

Chas. K. Davis.

INVENTOR

William H. Greenwood.

by Herbert W. Jenner.

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 741,129. Patented October 13, 1903.

UNITED STATES PATENT OFFICE.

WILLIAM H. GREENWOOD, OF EVERETT, MASSACHUSETTS.

LAMP-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 741,129, dated October 13, 1903.

Application filed February 6, 1903. Serial No. 142,163. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. GREENWOOD, a citizen of the United States, residing at Everett, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Lamp-Protectors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to protectors or guards for the bulbs of incandescent electric lamps; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a vertical section through the protector, showing it closed. Fig. 2 is a side view showing the protector open. Fig. 3 is a plan view of the hinged ring at the bottom of the protector.

A is a clamping device at the top of the protector, preferably consisting of two semicircular bands having flanges *a'*, which are connected by screws or bolts *b* or in any other approved manner, so that the protector is thereby secured to the socket of the lamp, which is shown in dotted lines in Fig. 1.

B B are two shields formed of wires. The upper ends of the wires are connected to the clamping-bands, and their lower ends are connected to the hinged halves of a ring C. The ring C may be circular, oval, or of other approved shape, and its halves are pivoted together in any approved manner. The two shields together form a wire cage, which has an outline similar to the shape of the lamp-bulb and which incloses it. The shields are provided with one or more cross-wires *c* for holding the main wires at the preferred distances apart from each other.

D represents inner guard-wires arranged longitudinally inside the cage and provided with coiled springs *d* where they bear against the periphery of the glass bulb of the lamp. These springs yield and accommodate themselves to the variations of the bulbs in size and prevent the bulbs from coming in contact with the wires of the cage.

Four inner yielding guards D are preferably used, two for each shield; but any other number may be applied as found desirable.

What I claim is—

1. A lamp-protector, comprising a wire-work cage formed of two parts hinged together and provided with fastening devices, and a series of yielding guards arranged longitudinally inside the said cage and engaging the bulb of the lamp, substantially as set forth.

2. A lamp-protector, comprising two shields formed of longitudinal wires and cross-wires, said shields being hinged together and provided with fastening devices, and a series of inner guard-wires provided with yielding coiled springs and extending longitudinally between the said cross-wires and the lower parts of the said shields, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. GREENWOOD.

Witnesses:

TERESA L. OCHS,

FRED. K. DAGGETT.