

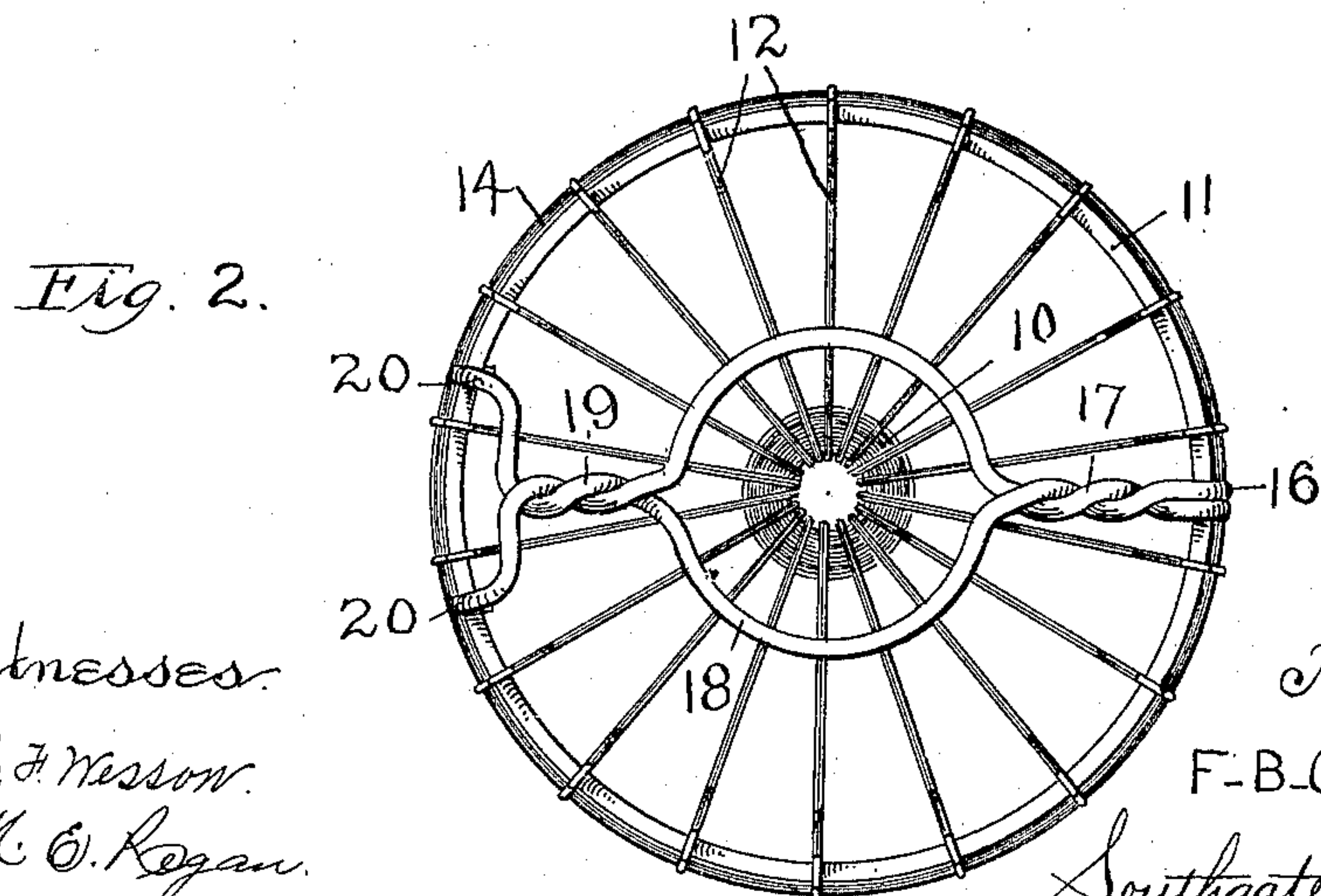
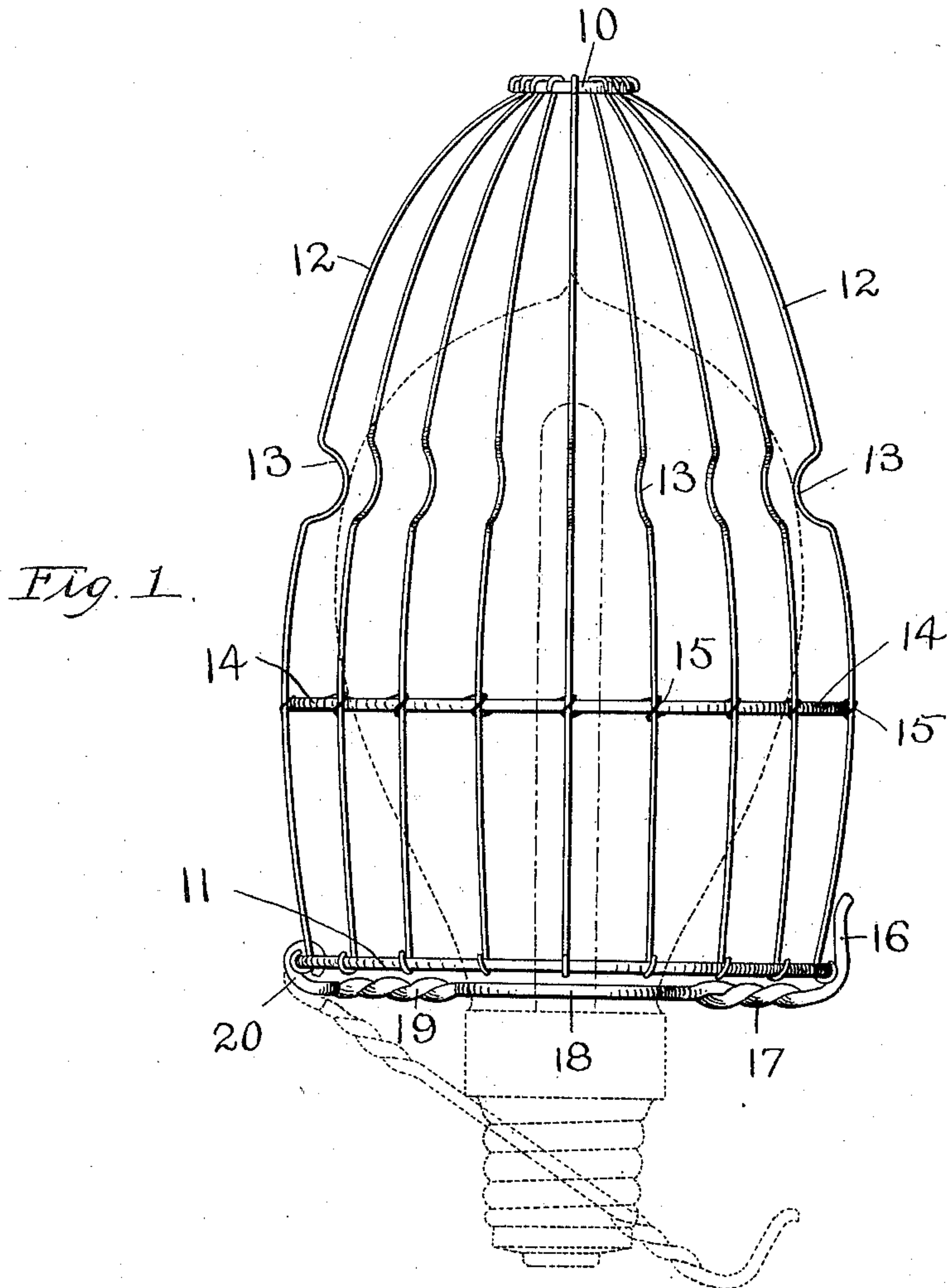
No. 656,840.

Patented Aug. 28, 1900.

F. B. GARRETSON.
PROTECTOR FOR ELECTRIC LAMPS.

(Application filed Mar. 8, 1900.)

(No Model.)



Witnesses:

G. F. Wesson.

M. C. Regan.

Inventor.

F. B. GARRETSON.

By
Southgate & Southgate
Attorneys.

UNITED STATES PATENT OFFICE.

FRANK B. GARRETSON, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO
HIMSELF AND WILLIAM J. GINDELE, OF SAME PLACE.

PROTECTOR FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 656,840, dated August 28, 1900.

Application filed March 8, 1900. Serial No. 7,769. (No model.)

To all whom it may concern:

Be it known that I, FRANK B. GARRETSON, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Protector for Electric Lamps, of which the following is a specification.

This invention relates to a protector for preventing the breaking of incandescent-electric light globes; and the object of this invention is to provide a simple, efficient, and inexpensive electric-light protector which may be readily put in place or removed, as desired, and which will be supported upon the globe of an incandescent electric light without connection with the lamp-socket or other support.

To these ends this invention consists of the electric-light protector and of the combinations of parts, as hereinafter described, and more particularly pointed out in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a side view of a protector for electric lamps constructed according to this invention, the position of the electric lamp being indicated in dotted lines; and Fig. 2 is a bottom plan view of the same.

The globes of incandescent electric lamps as now manufactured are extremely fragile, and in order to protect electric lamps from breakage various forms of wire protectors have heretofore been employed for inclosing the electric lamps. These protectors have heretofore usually been supported upon the lamp-socket or other convenient support, and in the use of prior protectors or covers for electric lamps care has to be exercised in securing the same in place, so that the same will not be pressed upon one side of the lamp-globe, and in many instances where such protectors are employed and are not carefully adjusted the electric lamps are more liable to breakage than if such protecting-frames were entirely omitted.

As distinguished from prior devices an electric-lamp protector constructed according to my invention is designed to be supported entirely upon the globe of the lamp itself.

To this end an electric-lamp protector constructed according to my invention comprises

a frame, preferably consisting of spring-wires having bent-in portions which engage the outer portion of the lamp-globe and a catch which engages the neck of the lamp-globe to secure the protector in place.

Referring to the accompanying drawings and in detail, the frame of an electric-lamp protector constructed according to this invention, as herein illustrated, comprises an end washer 10 and a wire ring 11. Connecting the end washer 10 and wire ring 11 are spring-wires 12. The spring-wires 12 have crooked or bent-in portions 13 for engaging the outer part of the lamp-globe. A spreading-ring 14 fits inside the spring-wires 12 or a part of them and is secured thereto by a binding-wire 15. Hinged to the base-ring of the wire frame as thus constructed is a catch for detachably securing the protector onto a globe. As herein illustrated, this catch is preferably formed by a single piece of wire, which is bent to form a latch 16 and has twisted sections 17 and 19 at each side of a central socket 18, which engages the neck of the lamp-globe. By means of this construction the protector will not interfere with the ready attachment or removal of the lamp from the socket where the same is to be used.

To secure a lamp-globe within the protector as thus constructed, the catch is first opened, the lamp is then inserted within the wire frame, and the catch then closed, as illustrated by the full lines in Fig. 1, so that when the protector is secured in place it will exert a slight spring-pressure upon all sides of the lamp-globe and will prevent a blow or concussion of any kind from acting directly upon the lamp-globe itself, distributing the force of any blow imparted thereto in such a manner that the lamp-globe inclosed therein cannot be readily broken, affording especial protection to the tip at the end of the lamp-globe, which is extremely fragile.

I am aware that numerous changes may be made in the details of the construction of electric-lamp protectors constructed according to my invention without departing from the scope of my invention as expressed in the claims. I do not wish, therefore, to be limited to the form or construction which I have herein shown and described; but

What I do claim, and desire to secure by Letters Patent of the United States, is--

1. As an article of manufacture, a protector for electric lamps comprising a frame having spring-wires with bent-in portions for engaging the outer portion of an electric-lamp globe, and a catch having a socket for engaging the neck of the electric-lamp globe hinged to the frame, whereby the protector may be secured on an electric-lamp globe without connection with the lamp-socket or other support, substantially as described.

2. As an article of manufacture, a protector for electric lamps comprising a frame consisting of an end washer, a base-ring, spring-wires connected to the base-ring and end washer, and having bent-in portions for engaging the outer part of an electric-lamp globe, and a spreading-ring connected to the spring-wires, and a catch having a socket for engaging the neck of the electric-lamp globe hinged to said frame, whereby the protector may be secured on an electric-lamp globe without connection with the lamp-socket, substantially as described.

3. As an article of manufacture, a protector for electric lamps comprising a frame hav-

ing spring-wires with bent-in portions for engaging the outer part of an electric-lamp globe, and a catch consisting of a single piece of wire bent to form a latch at one end, a socket for engaging the neck of the lamp-globe with twisted sections at each side thereof, the ends of the wire being hinged to the frame, substantially as described.

4. As an article of manufacture, a protector for electric-lamp globes comprising an end washer 10, a base-ring 11, spring-wires 12 having bent-in portions 13 for engaging the outer part of the lamp-globe, a spreading-ring 14 connected to the spring-wires, and a catch consisting of a single piece of wire bent to form a latch 16, a socket 18 having twisted portions 17 and 19 at each side thereof with the ends of the wire hinged to the base-ring 11, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FRANK B. GARRETSON.

Witnesses:

LOUIS W. SOUTHGATE,
PHILIP W. SOUTHGATE.