

No. 835,608.

PATENTED NOV. 13, 1906.

F. L. GILMAN.
CAP FOR SIGNAL LAMPS.
APPLICATION FILED DEC. 18, 1906.

Fig. 1.

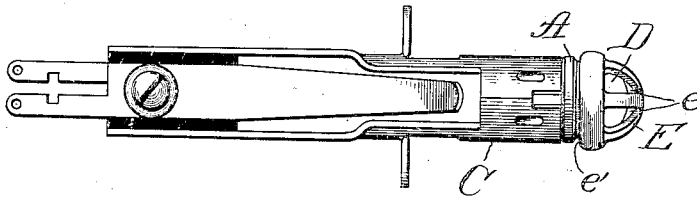


Fig. 2.

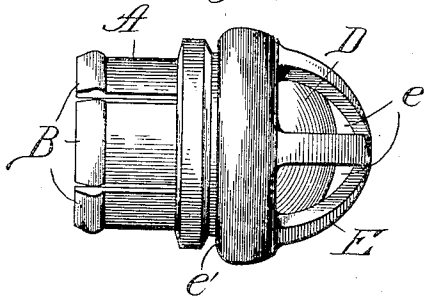


Fig. 4.

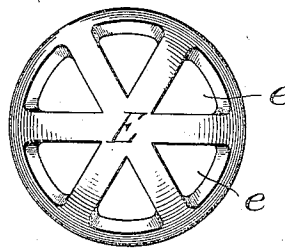


Fig. 3.

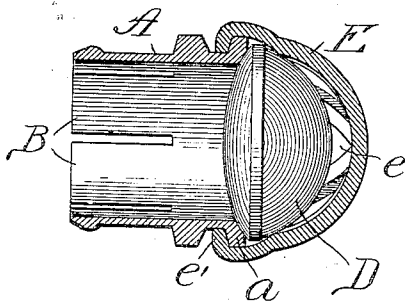
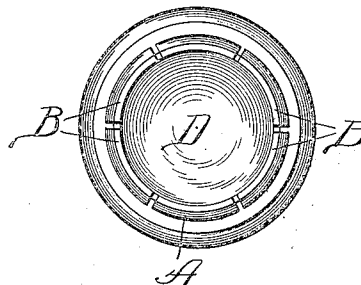


Fig. 5.



Witnesses:

Ed. C. Brown
Irving Mac Donald

Inventor:

Francis L. Gilman,
By Boston
Attys.

UNITED STATES PATENT OFFICE.

FRANCIS L. GILMAN, OF MONTCLAIR, NEW JERSEY, ASSIGNOR TO
WESTERN ELECTRIC COMPANY, OF CHICAGO, ILLINOIS; A COR-
PORATION OF ILLINOIS.

CAP FOR SIGNAL-LAMPS.

No. 835,608.

Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed December 18, 1905. Serial No. 292,169.

To all whom it may concern:

Be it known that I, FRANCIS L. GILMAN, a citizen of the United States, residing at Montclair, in the county of Essex and State of New Jersey, have invented a certain new and useful Improvement in Caps for Signal-Lamps, of which the following is a full, clear, concise, and exact description.

My invention relates to a cap for signal-lamps; and its object is to provide a cap of simple design in which the usual opalescent lens is held in place by a shield which serves to protect the same. This utilization of the shield to hold the lens in position provides for the assembly of the cap, lens, and shield in a single operation.

My invention may be readily understood by reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a lamp-socket with my improved cap in position. Fig. 2 is an enlarged side elevation of my invention. Fig. 3 is a central longitudinal section thereof. Figs. 4 and 5 are front and rear elevations, respectively.

Like letters of reference refer to like parts wherever they are shown.

The body of the cap consists of a tubular member A, having slots cut in the rear portion thereof to form spring members B, adapted to fit in the socket of the lamp C in the usual manner. The front end of the cap has an annular flange *a*, the inner portion of which is beveled to conform to the convex bottom surface of the opalescent lens D.

The shield or guard E has perforations *e*, through which the lens D, commonly known as an "opal," is visible. In assembling the parts the opal or lens D is placed upon the end of the cap A, the guard E is placed over it, and the rim *e'* of the guard is then turned or spun under the flange *a*, thus securely uniting the three parts. The shield prefer-

ably bears against the opal only near its base and at the front portion is sufficiently removed from the opal to thoroughly protect it.

By my invention a lamp cap and guard of simple construction is provided which is easily assembled, in which the opal is thoroughly protected, and in which the rim of the shield is so seated and secured that a blow cannot readily loosen it.

Having described my invention, I claim—

1. In a cap for signal-lamps, the combination with a tubular member, of a lens seated at one end of the same, and a perforated cup-shaped member secured upon the end of the tubular member, the rim of said cup-shaped member bearing upon said lens to prevent its displacement, and the central portion thereof being removed from the lens to form a shield in front of the same.

2. In a cap for signal-lamps, the combination with a tubular member having an annular flange at one end, of a lens seated outside of said flange, and a perforated shield having its rim turned under said flange, whereby the lens is held in position and protected, substantially as described.

3. In a cap for signal-lamps, the combination with a tubular member having a concave seat and an outwardly-turned annular flange at one end, of a lens mounted in said concave seat, and a perforated cup-shaped shield adapted at the inner side of its base to bear upon said lens and provided with an inward-turned lip engaging beneath said flange, whereby said shield holds said lens in position and protects the same.

In witness whereof I hereunto subscribe my name this 14th day of September, A. D. 1905.

FRANCIS L. GILMAN.

Witnesses:

GEORGE A. HAMILTON,
JAMES L. McQUAINE.