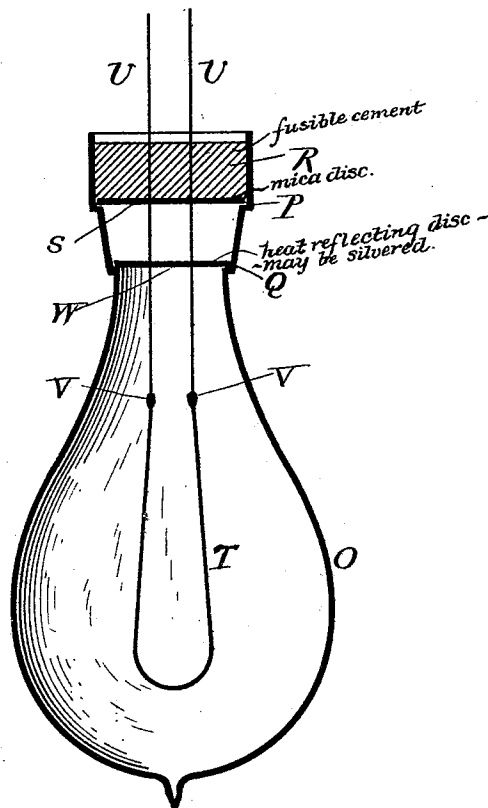


(No Model.)

E. E. CARY.  
INCANDESCENT ELECTRIC LAMP.

No. 500,053.

Patented June 20, 1893.



WITNESSES.

Frank M. Parker  
Frank G. Hattie

INVENTOR.

Edward Cybert Cary  
by William E. Nickerson  
att'y.

# UNITED STATES PATENT OFFICE.

EDWARD EGBERT CARY, OF BOSTON, MASSACHUSETTS.

## INCANDESCENT ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 500,053, dated June 20, 1893.

Application filed April 7, 1893. Serial No. 469,377. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD EGBERT CARY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Incandescent Electric Lamps, of which the following, taken in connection with the accompanying drawing, is a specification.

My invention relates to incandescent electric lamps of that class in which the neck of the lamp globe is closed air tight and the leading-in wires inclosed and supported by a plug of fusible cement, and in which a disk is used within the lamp to prevent the radiant heat from the filament from softening the cement plug.

The accompanying drawing illustrates an incandescent electric lamp adapted to embody my invention.

O is the glass lamp globe provided with the shoulders P and Q located in the neck of the globe. Upon the shoulder P is placed a disk S of mica or other suitable substance, which serves as a support for the leading-in wires and for a plug of fusible cement R by which the wires are further supported and the lamp globe rendered air tight.

T is the filament connected with the leading-in wires U U at V V.

Upon the shoulder Q is placed a heat-reflecting disk W, adapted to prevent the radiant heat of the filament from softening the plug of fusible cement. The capacity of the disk W to cut off and reflect the radiant heat emitted by the filament I largely increase by a coating of silver or other metal deposited upon it. This may be accomplished by any

of the methods well known in the arts. The coating of silver by reason of its opacity and high reflecting power effectually cuts off and reflects the radiant heat of the filament. That part of the disk W which is immediately contiguous to the leading-in wires should be free from the metallic coating, in order to prevent short circuiting or arcing between the wires.

My invention consists in applying a coating of silver or other metal to a heat-reflecting disk adapted to be used in an incandescent electric lamp, for the purpose of preventing the heat of the filament from softening the plug of fusible cement by which the lamp is closed air tight.

I claim—

1. An incandescent lamp consisting of a glass globe having a neck, a fusible cement in the neck for rendering the globe air-tight, and a silver coated reflecting disk adapted to prevent the radiant heat of the filament from softening the cement, substantially as specified.

2. In an incandescent electric lamp the combination of the glass globe O, disk S, filament T, leading-in wires U U, fusible cement plug R and disk W, said disk W being coated with silver as described, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 5th day of April, A. D. 1893.

EDWARD EGBERT CARY.

Witnesses:

FRANK G. PARKER,  
FRANK G. HATTIE.