

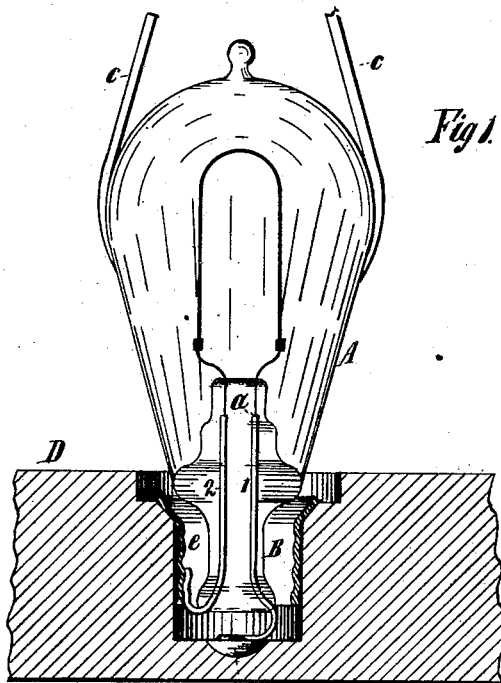
(No Model.)

S. D. MOTT.

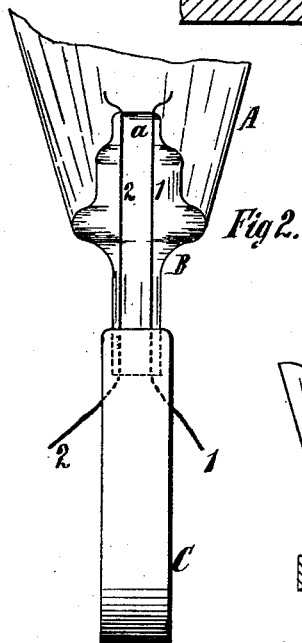
INCANDESCING ELECTRIC LAMP.

No. 264,737.

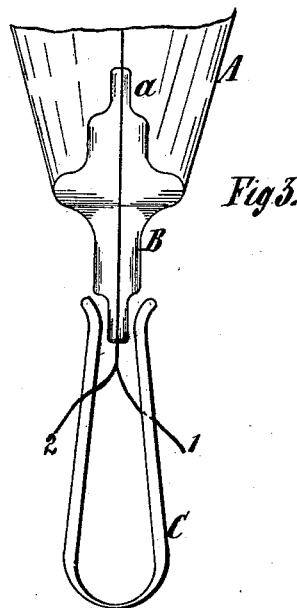
Patented Sept. 19, 1882.



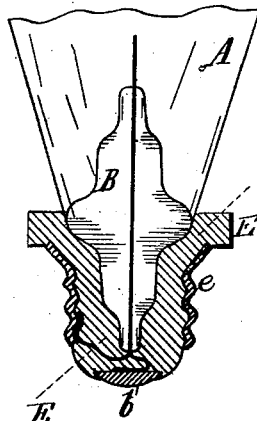
*Fig 1.*



*Fig 2.*



*Fig 3.*



*Fig 4.*

WITNESSES:  
*Thomas E. Birch.*  
*F. W. Howard*

INVENTOR:  
*S. D. Mott*  
BY *Dyer & Milner*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

SAMUEL D. MOTT, OF MENLO PARK, NEW JERSEY, ASSIGNOR TO THE  
EDISON ELECTRIC LIGHT COMPANY, OF NEW YORK, N. Y.

## INCANDESCING ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 264,737, dated September 19, 1882.

Application filed November 29, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL D. MOTT, of Menlo Park, in the county of Middlesex and State of New Jersey, have invented a certain new and useful Improvement in Incandescing Electric Lamps, of which the following is a specification.

The objects I have in view are to so form the glass supporting-neck of an incandescing electric lamp that the molded collar or base will be fixed thereon without danger of its working loose, or twisting, or turning around, and at the same time to keep the leading-in wires of the lamp apart from each other without the insertion of a cork, as has hitherto been found necessary.

The usual manner of attaching the collar to the neck of the lamp has been to place the ring-terminals, if such are used, around the neck, solder the leading-in wires to them, and place the whole in a mold of the proper shape. Plaster-of-paris or other plastic material is then poured in between the neck and the rings, which, on hardening, secures them together; or, if for the lower terminal a flat plate is used, the latter is soldered to one of the wires below the lamp and the plastic material poured in, attaching the terminals to the lamp. In these cases it is necessary to insert a cork in the lower end of the neck, between the wires, to keep them apart. Difficulty may sometimes be experienced because, the shape of the neck being regular, the collar is liable to turn on it and become loose. To obviate this I soften the glass at the lower end of the neck, and then pinch or flatten it down so as to form an irregularity in the neck, and also to force the wires apart and hold them separate. After this the collar and terminals may be molded on, as above described.

My invention is shown in the accompanying drawings, in which—

Figure 1 is a sectional view of the mold with the lamp placed therein. Figs. 2 and 3 show the manner in which the glass of the

neck is flattened down; and Fig. 4 is a sectional view of the lower end of a completed lamp.

A is the bulb or globe of the incandescing lamp of the Edison pattern; and B is its inner stem or support for the carbon, in which stem the wires 1 2 are sealed at the point *a*. By means of any suitable clamp or squeezers, as represented by C, I pinch the lower end of the neck B together upon the wires, the glass having first been brought to a welding heat. This presses the wires 1 2 apart and holds them so that they cannot come together again. The terminals *b c* are then soldered to the wires 1 2, and the whole set into the mold D, the lamp being held by spring-fingers *e e*. The plastic material which forms the collar is then poured in and allowed to harden, as before described. A collar, E, Fig. 4, is thus formed, to the outside of which the terminals are secured.

What I claim is—

1. An incandescing electric lamp having an irregularly-shaped neck, in combination with a collar attached to said neck and metallic terminals secured to said collar and connected with the leading-in wires of the lamp, substantially as set forth.

2. In an exhausted and hermetically-sealed incandescing electric lamp, the combination of a glass globe, a supporting-tube of glass, sealed upon the leading-in wires at its upper and lower ends and sealed at its sides to said globe, said tube being irregularly shaped at its lower end, and a collar molded upon the lower end of said tube and provided with metallic terminals, with which the leading-in wires are connected, substantially as specified.

This specification signed and witnessed this 19th day of November, 1881.

SAMUEL D. MOTT.

Witnesses:

H. W. SEELY,  
RICH'D. N. DYER.