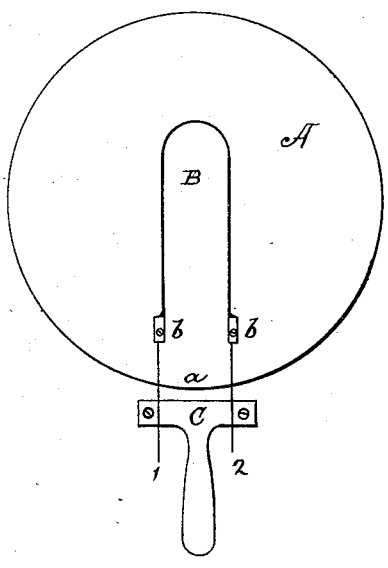


(No Model.)

T. A. EDISON.
ELECTRIC LAMP.

No. 351,855.

Patented Nov. 2, 1886.



Witnesses:

D. W. Mott
J. A. Payne.

Inventor:

T. A. Edison.
by Sylvia Wilber
Attorneys.

UNITED STATES PATENT OFFICE.

THOMAS A. EDISON, OF MENLO PARK, NEW JERSEY, ASSIGNOR TO THE
EDISON ELECTRIC LIGHT COMPANY, OF NEW YORK, N. Y.

ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 351,855, dated November 2, 1886.

Application filed August 27, 1880. Serial No. 16,061. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. EDISON, of Menlo Park, in the county of Middlesex and State of New Jersey, have invented a certain
5 new and useful Improvement in Incandescent Electric Lamps, (Case No. 244,) of which the following is a specification.

The object of my invention is to provide a simple and cheap form of incandescent electric lamp. Such lamps have usually been
10 made by me in two glass parts, an outer globe and an inner tube or stem which supports the wires to which the carbon is attached, such wires being sealed in the tube or stem and
15 such tube or stem being sealed in an opening at the lower end of the globe.

In the construction which constitutes the present invention I dispense with the inner stem or wire support, and seal the glass of the inclosing-globe directly upon the wires themselves, such wires being made strong enough to support the carbon without any other support.
20

The carbon is a loop with its ends brought together, so that the leading-in wires attached thereto will be quite close together and parallel with each other. The carbon may thus be introduced through an opening in one side of the globe, and this single opening can then be closed by the fusion of the glass upon both
25 of the leading-in wires.

My invention is illustrated in the accompanying drawing.

A is the glass inclosing-globe. 1 2 are the parallel leading-in wires, and B is the loop-shaped carbon filament clamped or otherwise secured to said wires at *b b*. The globe is originally formed with an opening at its lower side. To introduce the carbon and wires into
30 this opening I prefer to employ the handle or

support C, to which the wires are temporarily attached at the proper distance apart, and the handle being held by the operator the carbon and wires are passed into the globe, after which the opening in the globe is closed
45 around and upon the wires by the application of heat to the glass, whereby the glass is melted and sealed. The globe A is exhausted from the top and sealed off in the usual manner. After the wires are secured in the globe, they
50 are detached from the handle C, and they may be connected with the supplying-circuit in any suitable manner.

What I claim is—

1. In an incandescent electric lamp, the combination of an exhausted glass inclosing-globe and a carbon filament within the same secured to metallic wires, said globe being sealed directly upon said wires, substantially as set forth.
55 60

2. In an incandescent electric lamp, the combination of an exhausted glass inclosing-globe and a loop-shaped carbon filament within the same, having its ends secured to parallel metallic wires, said globe being sealed on one
65 side thereof directly upon such wires, substantially as set forth.

3. The method of manufacturing an incandescent electric lamp, consisting in attaching the carbon filament to the leading-in wires,
70 inserting the same in a glass globe and sealing said globe directly upon said wires, substantially as set forth.

This specification signed and witnessed this 11th day of August, 1880.

THOS. A. EDISON.

Witnesses:

WM. CARMAN,
OTTO A. MOSES.