

(No Model.)

C. G. PERKINS.

CARBON HOLDER FOR INCANDESCENT LAMPS.

No. 287,323.

Patented Oct. 23, 1883.

Fig. 1.

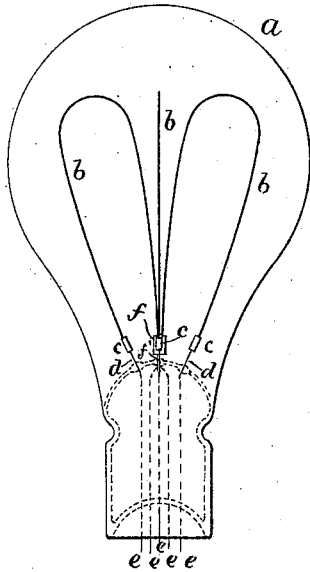
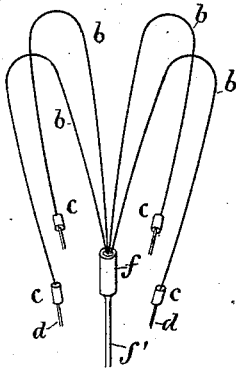


Fig. 2.



ATTEST:

J. A. Murdle  
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INVENTOR:

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By J. A. Murdle  
att.

# UNITED STATES PATENT OFFICE.

CHARLES G. PERKINS, OF NEW YORK, N. Y., ASSIGNOR TO THE IMPERIAL  
ELECTRIC LIGHT COMPANY, OF SAME PLACE.

## CARBON-HOLDER FOR INCANDESCENT LAMPS.

SPECIFICATION forming part of Letters Patent No. 287,323, dated October 23, 1883.

Application filed May 26, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES G. PERKINS, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Carbon-Holders for Incandescent Lamps, of which the following is a specification.

My invention relates to a simple and cheap device for holding the ends of carbon filaments, by which good electrical contact is secured; also, to simplify the construction of lamps having one or more carbon filaments inclosed in one globe.

Heretofore the clamping devices for holding carbon filaments were composed of several pieces held together by means of screws, &c. This mode of construction is objectionable on account of the multiplicity of parts, which in many cases destroys the lamp on account of not making a perfect electrical contact. These objections are obviated by my invention, fully described hereinafter.

My invention consists of a metallic cylindrical cup having a round or flat projection extending from the base thereof, and sealed in the central portion of the base of the globe, said cup holding one end of several carbons. The remaining ends of the carbons are held in a single metallic cup of the same construction as the one stated above. The cups are filled with carbon-paste, and the carbon filaments inserted therein and arranged so as to come in contact with a series of plates or wires of a switch-box made therefor, said plates representing one pole, while the circuit-connections of central metallic cup represent the other.

In the drawings, Figure 1 represents a side elevation of an incandescent lamp, with the

cylindrical cups holding the carbon filaments within the vacuous chamber of the globe. Fig. 2 represents a perspective view of the holders and carbons detached.

Similar letters refer to similar parts throughout the drawings, in which—

*a* represents the globe of an incandescent lamp; *b*, the carbons, supported by the cylindrical cups *c*, having their shanks *d* sealed in the base of the globe *a* and connected with the auxiliary wires *e*.

*f* is the central cylindrical cup, containing one end of each carbon therein. The shank *f'* of said cup is also sealed in the base of the globe, and is connected with an electrical conductor.

The cups *c* and *f* are first filled with carbon-paste, and the carbons *b* are inserted therein while the paste is soft, after which the paste becomes hardened, thus making a perfect electrical connection with the carbon filaments and cups.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with an electric incandescent lamp, the carbon filaments *b*, having one of their ends held within the central cup, *f*, by means of carbon-paste, the remaining ends held in a similar manner in separate cups *c*, all having their shanks sealed in the base of the globe, substantially as shown and described.

Signed at New York, in the county of New York and State of New York, this 24th day of May, A. D. 1883.

CHARLES G. PERKINS.

Witnesses:

J. A. HURDLE,  
GEORGE BECKER.