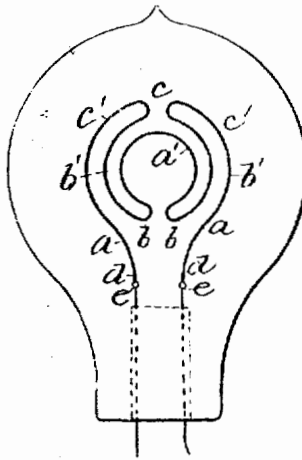


DESIGN.

J. A. HURDLE.
CARBON FILAMENT.

No. 15,685.

Patented Jan. 6, 1885.



Attest:
C. W. Hurdle
W. F. Hurdle

Inventor:
Julian A. Hurdle

UNITED STATES PATENT OFFICE.

JULIAN A. HURDLE, OF NEW YORK, N. Y.

DESIGN FOR A CARBON FILAMENT.

SPECIFICATION forming part of Design No. 15,685, dated January 6, 1885.

Application filed October 24, 1884. Term of patent $3\frac{1}{2}$ years.

To all whom it may concern:

Be it known that I, JULIAN A. HURDLE, 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 Designs for Carbon Filaments for Electric-Lamp Burners, of which the following is a specification.

The drawing represents a front elevation of a carbon filament in which is shown the design hereinafter specified.

The leading feature of my design consists of a filament of carbon, *a*, the central portion, *a'*, forming nearly a complete circle, the ends *b*, where the circle is broken, and the continuity *b'* thereof continuing therefrom and concentric therewith until they reach nearly to the vertical center *c* of the structure, where the continuity returns concentric with the

other lines, *b'* and *c'*, until they reach nearly to the base *d*, where they are joined to their respective holder *e*.

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

The design for carbon filaments as herein shown and described, the same consisting of the carbon filament *a*, the central portion, *a'*, forming a broken circle, the continuity of the filament forming two concentric lines on each side and nearly around the central portions.

Signed at New York, in the county of New York and State of New York, this 30th day of September, A. D. 1884.

JULIAN A. HURDLE.

Witnesses:

FRANCIS C. BOWEN,
N. F. HURDLE.