

(No Model.)

W. STANLEY, Jr.

FILAMENT FOR INCANDESCENT ELECTRIC LAMPS.

No. 316,302.

Patented Apr. 21, 1885.

Fig. 1.

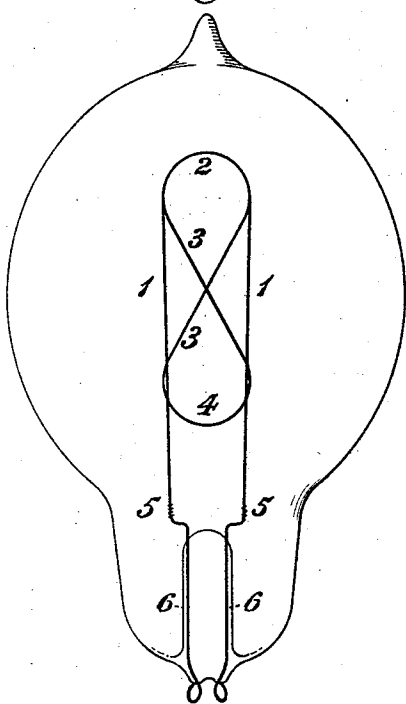


Fig. 2.

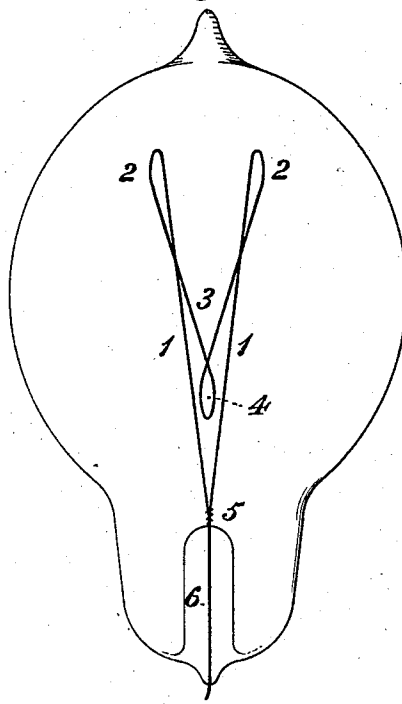
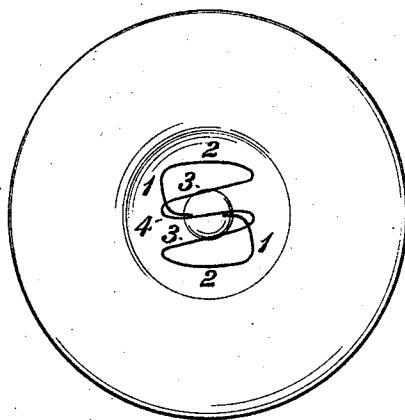


Fig. 3.



WITNESSES:

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FILAMENT FOR INCANDESCENT ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 316,302, dated April 21, 1885.

Application filed September 4, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM STANLEY, JR., of Englewood, in the county of Bergen and State of New Jersey, a citizen of the United States, temporarily residing at Sewickley, in the county of Allegheny and State of Pennsylvania, have invented or discovered a certain new and useful Improvement in Filaments for Incandescent Electric Lamps, of which improvement the following is a specification.

In the accompanying drawings, which make part of this specification, Figures 1 and 2 are side views in elevation and at right angles one to the other of an electric lamp embodying my invention; and Fig. 3, an end view in elevation of the same.

The object of my invention is to provide a carbon filament for an incandescent lamp which shall present, under all azimuths, substantially equal quantities of illuminating or radiating surface, as well as to admit of the employment of a greater length of filament within a given space than heretofore.

To this end my improvement consists in a carbon filament bent in the form hereinafter set forth.

In the practice of my invention I take a carbon filament prepared in any suitable manner known to those skilled in the art, or a leucine filament, as described in an application for Letters Patent filed by myself and Edward P. Thompson, under date of July 8, 1884, Serial No. 137,274, and bend the same, by winding it over a cylindrical rod of carbon, into the form of two lateral members, 1, inclined outwardly from their ends 5, which are adapted to be connected to the wires 6, through which the current of the lamp passes, and having

loops or curved portions 2 at their opposite ends, and two return-bends, oppositely inclined one to the other and extending in reverse direction to the lateral members 1, said return-bends connecting the loops 2 of the lateral members with an intermediate loop, 4, located adjacent to their ends 5, the filament so formed presenting, when viewed in one plane, substantially the figure of a numeral "8," with tangents on each of its sides, and when seen in a plane at right angles to the first, the figure of a flattened letter "W" with its outer limbs extended to a point of intersection.

By such formation of the filament a materially increased amount of illuminating or radiating surface is obtained, and its general appearance, when illuminated, is that of a truncated obtuse cone, so far approximating equal dimensions in all directions as to distribute the light more uniformly in every direction than is practicable with carbons of the forms heretofore employed.

I claim herein as my invention—

A carbon filament for incandescent lamps bent into the form of two outwardly-inclined lateral members having loops at two adjacent ends and two oppositely-inclined return-bends extending in reverse direction to said lateral members and connecting the loops thereof with an intermediate loop, substantially as set forth.

In testimony whereof I have hereunto set my hand.

WILLIAM STANLEY, JR.

Witnesses:

J. SNOWDEN BELL,
ALBERT L. REINMANN.