G. W. BEADLE.

SUPPORT FOR INCANDESCENT LAMP FILAMENTS.

APPLICATION FILED JULY 19, 1909.

1,046,722.

Patented Dec. 10, 1912.

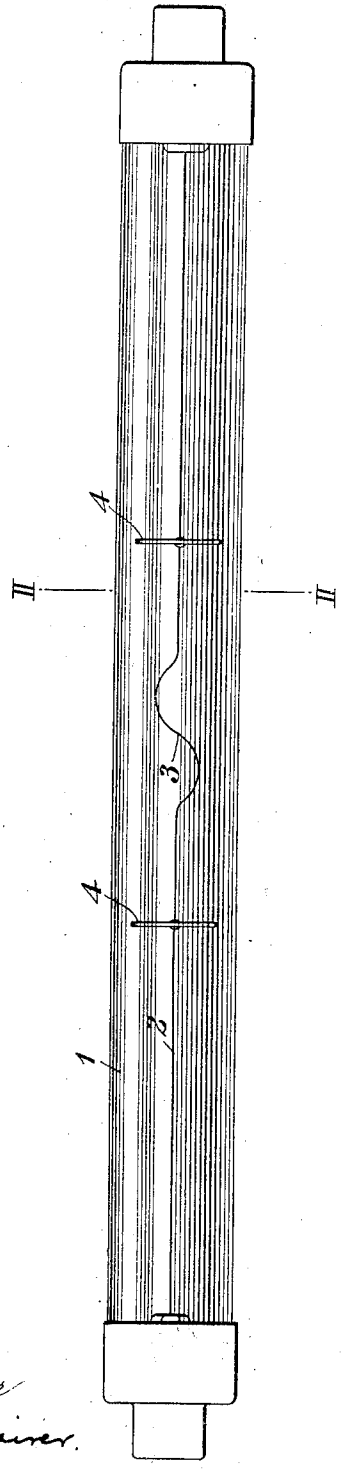

Fig. 1.

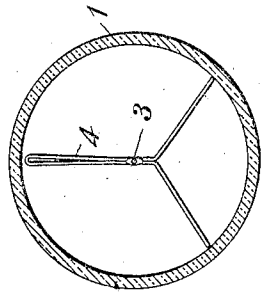

Fig. 2.

WITNESSES:

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GEORGE W. BEADLE, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO WESTINGHOUSE LAMP COMPANY, A CORPORATION OF PENNSYLVANIA.

SUPPORT FOR INCANDESCENT-LAMP FILAMENTS.

1,046,722. Specification of Letters Patent. Patented Dec. 10, 1912.

Application filed July 19, 1909. Serial No. 508,539.

To all whom it may concern:

Be it known that I, GEORGE W. BEADLE, a citizen of the United States, and a resident of East Orange, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Supports for Incandescent-Lamp Filaments, of which the following is a specification.

My invention relates to incandescent lamps, and particularly to lamps having tubular casings and filaments stretched between its ends.

The object of the invention is to provide simple and effective means for supporting the filaments of lamps of the character indicated out of engagement with the bulbs or tubular casings and substantially central therein.

In lamps having tubular casings or bulbs, and filaments stretched between their ends, it is usually necessary to provide means for maintaining the filaments out of engagement with, and approximately central within, the casings. This has heretofore been effected by means of supporting devices or anchors that have been clamped or otherwise secured to the casings, or that have been interposed between and mechanically connected to adjacent filament sections.

When the anchors are secured to the casings, much difficulty is often experienced in placing them in position and in inserting the filaments into the casings, while if the anchors are adapted to be placed between filament sections, a continuous filament cannot be employed in connection therewith. The present device or anchor is intended for employment in connection with a continuous filament and may be applied thereto at any convenient point, and it is adapted to be pasted or otherwise secured directly to the filament so that it may be inserted into the casing simultaneously with the filament.

Figure 1 of the accompanying drawing is a side view of a lamp embodying the present invention and Fig. 2 is an enlarged sectional view of the lamp on the line II—II of Fig. 1.

Extending and stretched between the ends of a tubular casing or bulb 1 of the lamp is a filament 2 having an intermediate portion 3 in the form of an extended helix, or in any other suitable form which will permit of ready expansion and contraction of the filament upon heating and cooling. The filament is supported out of engagement with the sides of the tubular casing and approximately central therein by means of supporting devices or anchors 4, two of which are employed in the present instance, spaced at points approximately one-third the length of the filament from its ends.

Each of the supporting devices or anchors consists of a reversely bent strip or wire having its ends bent apart to form a substantially Y-shaped member, the filament being straddled and embraced by and pasted to the adjacent parallel portions thereof. The supporting devices are freely movable within the casing, and, since they are pasted to the filament, they may be inserted in the casing simultaneously with the filament, no subsequent spacing or adjustment thereof being necessary.

I claim as my invention:

1. An incandescent lamp comprising a tubular casing, a filament extending from end to end thereof, and a supporting member freely movable within the casing and pasted to the filament and extending laterally therefrom.

2. An incandescent lamp comprising a tubular casing, a filament extending from end to end thereof, and a substantially Y-shaped supporting member pasted near its center to the filament.

3. An incandescent lamp comprising a tubular casing, a filament extending from end to end thereof, and a supporting member for the filament consisting of a reversely bent strip having its ends bent apart, said member being pasted near its center to the filament.

4. An incandescent lamp comprising a tubular casing, a filament extending from end to end thereof, and a supporting member for the filament consisting of a reversely bent strip that straddles and embraces the filament and is pasted thereto.

In testimony whereof, I have hereunto subscribed my name this 7 day of July, 1909.

GEORGE W. BEADLE.

Witnesses:
ARTHUR S. KNIGHT,
R. C. KARCHNER.