Sept. 23, 1924. 1,509,559

V. T. JENNINGS

ELECTRIC LIGHTING FIXTURE

Filed Feb. 5, 1924

Fig. 1.

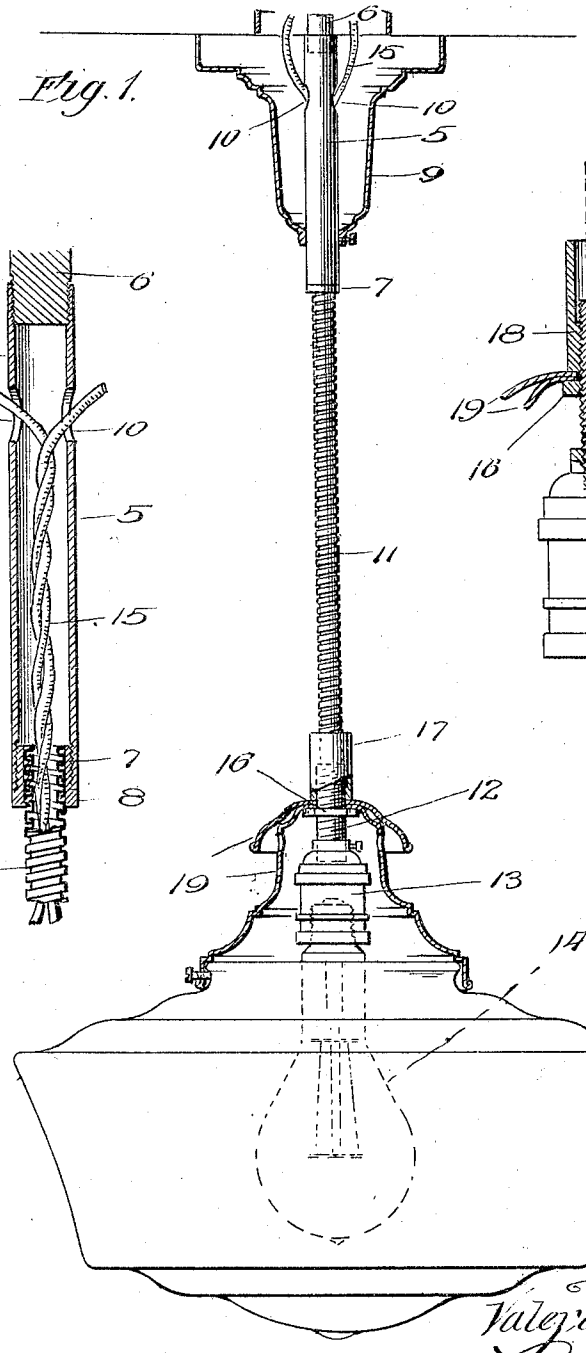
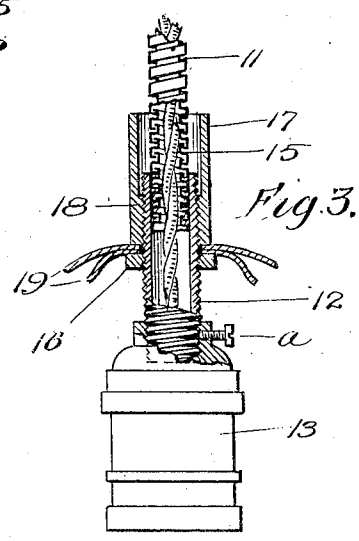


Fig. 2.

Fig. 3.



Inventor:
Valerius T. Jennings,
by Pierce & Shewey
his Attys.

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UNITED STATES PATENT OFFICE.

VALERIUS T. JENNINGS, OF CHICAGO, ILLINOIS, ASSIGNOR TO HANGER ELECTRIC MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

ELECTRIC-LIGHTING FIXTURE.

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To all whom it may concern:

Be it known that I, VALERIUS T. JENNINGS, a citizen of the United States, and a resident of Chicago, Cook county and State of Illinois, have invented certain new and useful Improvements in Electric-Lighting Fixtures, of which the following is declared to be a full, clear, and exact description.

This invention relates to electric lighting fixtures and its principal object is to provide a simple, practical and efficient fixture which may be readily wired and installed in place. Another object is to provide a fixture with a pendant stem of substantially uniform diameter throughout, whereby the usual canopy may be slipped upon the same and moved down beyond its lower end to expose its upper end for the purpose of gaining access to the wires or for any other purpose. Another object is to provide a fixture having a fixture stem which is flexible and slightly elastic, whereby the fixture may hang plumb and may withstand shocks and jars without danger of injury to the lamp filaments, and other fragile parts. Another object is to provide a fixture in which the light bulb may be readily centered in the globe or shade, whereby the most efficient lighting effect may be obtained. Other objects and advantages will appear in the following specification, and with all of said objects and advantages in view, this invention consists in the several novel features hereinafter set forth and claimed.

The invention is clearly illustrated in the accompanying drawing in which:

Fig. 1 is a view, partly in side elevation and partly in central vertical section of an electric lighting fixture embodying a simple form of the present invention; Fig. 2 is an enlarged, detail, vertical section of a portion of the upper end of the fixture and Fig. 3 is an enlarged, detail, vertical section through a portion of the lower end of the fixture.

Referring to said drawing, the reference character 5 designates a pendant stem preferably in the form of a tube and internally threaded at both of its ends. The threaded upper end provides means for attaching the fixture to a threaded stud, pipe or other support 6 which is secured in place at the ceiling of the room where the light is to be installed. Threadedly secured in the lower threaded end of the pendant stem is an externally threaded bushing 7 which is sweated to the stem 5 or soldered or brazed thereto, to make a permanent connection therewith. The lower end of the bushing 7 has a shouldered part 8, which bears against the extreme end of the stem 5. The stem is of uniform diameter throughout and the diameter of the shouldered part 8 of the bushing is no greater than that of the stem. A canopy or other cover 9 is secured upon the stem by a set screw as is well understood and encloses the upper end of the stem. By reason of the uniform diameter of the stem, the canopy may be slipped upon it from either end and may be adjusted thereon and moved below the same, after the stem has been secured to its support, whereby the upper end of the stem may be freely exposed to enable workmen to make connections between the wires at the upper end of the stem or for any other purpose. Said stem is provided near its upper end with outlet openings 10 through which the conductor wires 15 pass to the interior of the stem and parts therebelow.

Secured to the bushing 7 is a flexible, elastic, metallic fixture stem 11 which if desired may comprise any of the well known forms of flexible armor for conductor cords, and the upper end of said flexible fixture stem 11 is permanently secured in the bushing 7 as for instance, by sweating it thereto.

Secured to the lower end of the flexible fixture stem 11 is a nipple 12 which is externally threaded and which is threadedly secured in the threaded end of a lamp socket 13. A set screw *a*, threaded in the lamp socket bears against the nipple 12 and positively secures the lamp socket to the nipple. The nipple 12 is sweated or otherwise permanently secured to the lower end of the flexible fixture stem 11. An electric light bulb 14 is secured in the lamp socket 13 and is wired to the conductor cords 15 which extend through the nipple 12, the flexible fixture stem 11 and the pendant stem 5, from which they lead out through the outlet openings 10 and run to the main conducting wires of the building.

Adjustably secured upon the nipple 12 is a shade holder support which may comprise a nut 16, which may be moved up and down upon the nipple to vary the distance between the lamp socket 13 (and consequently between the electric light bulb 14)

and the top of the nut 16. Adjustably secured upon the nipple 12 above the nut 16 is a sleeve 17 which fits loosely around the flexible fixture stem 11, and, in the form shown, has an internally threaded part 18 that is threaded upon the nipple 12.

Supported upon the shade supporting nut 16 and secured between said nut 16 and the sleeve 17 is a shade holder 19 of ordinary and well known form which supports a shade or globe 20 that surrounds the electric light bulb 14.

In order to obtain maximum lighting efficiency, it is necessary to properly locate the filament of the electric light bulb with respect to the globe, and this is done by adjusting the nut 16, which supports the shade holder, upwards or downwards so as to bring the globe 20 in the correct position relative to the electric light bulb 14 after which the sleeve 17 is screwed down against the top of said shade holder, thereby firmly clamping it in its place of adjustment. The upper end of the threaded sleeve 17 covers the threaded nipple 12 making a neat finish for the fixture at this point.

It will be observed that by reason of the flexibility and elasticity of the flexible stem 11 any shocks or jars will be absorbed by said stem, whereby any danger of injury to the filament of the electric light bulb or any other fragile parts of the lamp or the globe is practically eliminated. Furthermore by reason of the uniformity of the diameter of the pendant stem and because of the fact that the flexible stem therebelow is of a diameter not greater than the pendant stem, the canopy may be lowered below the pendant stem for access to places in and around the upper portion of the stem. Furthermore the construction affords simple means whereby the flexible fixture stem portion and lamp socket may be wired readily. Because of the threaded supporting connections between the lower end of the flexible fixture stem and shade holder, the shade holder may be slipped upon the flexible stem to enable persons to have access to the lamp socket, for the purpose of repair, adjustment or other purposes. By unscrewing the sleeve 17 from the nipple 12 the shade holder may be moved away from the lamp socket. When screwed on to the nipple, the sleeve 17 covers the threads of the nipple in any position of adjustment of the shade holder. The parts are easily assembled, readily installed and provide a fixture which is substantial and highly efficient for the purpose intended.

More or less variation of the exact details of construction is possible without departing from the spirit of this invention; I desire, therefore, not to limit myself to the exact form of the construction shown and described, but intend, in the following claims, to point out all of the invention disclosed herein.

I claim as new, and desire to secure by Letters Patent:

1. In an electric lighting fixture, a hollow pendant stem of uniform external diameter throughout, and threaded at both ends, a threaded bushing threadedly secured in the lower end of said stem, and having a shouldered portion bearing against the end of the stem, the diameter of said shouldered portion being no greater than that of the stem, and a metallic fixture stem of less diameter than said pendant stem, whereby a canopy fitting the stem may be slipped along said fixture stem, for containing conductor wires and for supporting a lamp, said fixture stem being permanently secured in said bushing.

2. In an electric lighting fixture, a hollow pendant stem of uniform external diameter throughout, and threaded at both ends, a threaded bushing threadedly secured in the lower end of said stem, and sweated thereto, and having a shouldered portion bearing against the end of the stem, the diameter of said shouldered portion being no greater than that of the stem, and a hollow, flexible, elastic fixture stem of less diameter than said stem, whereby a canopy fitting said pendant stem may be slipped along the fixture stem, sweated into said bushing.

3. In an electric lighting fixture, a hollow pendant stem of uniform external diameter throughout and internally threaded at both ends, said stem being formed with outlet openings near its upper end, a threaded bushing threadedly secured in the lower end of said stem, and having a shouldered portion of a diameter not greater than that of the stem, and a metallic fixture stem for containing conductor wires and for supporting a lamp, permanently secured in said bushing, said fixture stem being of no greater diameter than the pendant stem, whereby a canopy fitting the pendant stem may be slipped along the fixture stem.

4. In an electric lighting fixture, a pendant stem, of uniform diameter throughout and threaded at one end for attachment to a support, an externally threaded socket supporting nipple, and a hollow, flexible, elastic metallic fixture stem, of less diameter than the pendant stem, the ends of which fixture stem are sweated to said pendant stem and nipple.

5. In an electric lighting fixture, a hollow, flexible, metallic fixture stem, an externally threaded lamp socket supporting nipple sweated thereto, a shade holder supporting nut, threadedly secured on said nipple and adjustable up and down thereon to vary the distance from the lamp socket to the top of the nut, and a sleeve loosely surrounding said stem, and having an internally threaded

portion, threadedly secured on said nipple above the nut, and arranged to clamp said shade holder upon the nut, and to cover said threaded nipple.

6. In an electric lighting fixture, a hollow, flexible, metallic, fixture stem, a nipple sweated thereto, a lamp socket secured to said nipple, a shade holder supporting member adjustably secured on said nipple and movable up and down thereon to vary the distance between the lamp socket and top of said supporting member, and a sleeve loosely surrounding said stem and adjustably secured upon said nipple, said shade supporting member and sleeve being arranged to clampingly secure a shade holder, at various places of adjustment, upon said nipple, and the sleeve being arranged to cover the threads of the nipple.

VALERIUS T. JENNINGS.