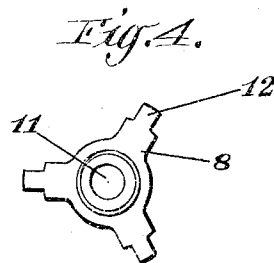
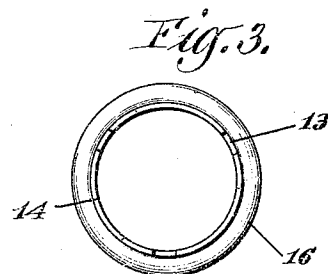
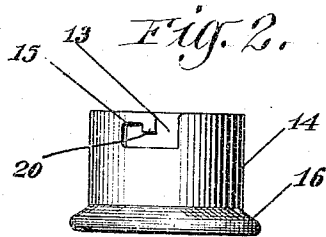
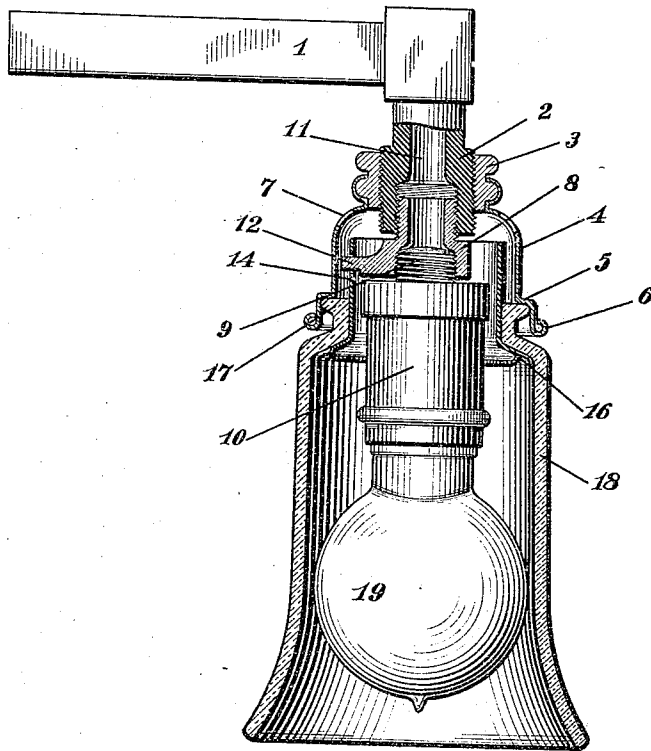


E. C. SOfIO.
LAMP FIXTURE.
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1,045,450.

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Fig. 1.



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LAMP-FIXTURE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD C. SOFIO, a citizen of the United States, residing in Hoboken, county of Hudson, and State of New Jersey, have invented new and useful Improvements in Lamp-Fixtures, of which the following is a description.

My invention pertains to that class of lamp fixtures used to support an electric lamp or bulb and carry in operative relation thereto a shade or reflector adapted to shed the rays of a lamp in a desired direction.

In the drawing Figure 1 represents a vertical section and partial elevation of one form of lamp fixture embodying my invention. Fig. 2 is a side elevation of one portion of the fixture shown in section in Fig. 1. Fig. 3 is a top plan of the same portion as will hereinafter be more plainly brought out. Fig. 4 is a top plan of one of the portions of my fixture shown in section in Fig. 1.

In Fig. 1, 1 represents a portion of any suitable type of bracket or support intended to carry the bulb or lamp and is shown provided with a depending screw threaded nipple 2 upon which is screwed the nut 3 carrying the bonnet portion 4 provided at its lower portion with a lateral flange 5 and depending portion 6. The bonnet 4 is provided with apertures 7 for the purpose of ventilation. 8 is a three-legged spider provided with an upturned nipple which is threaded into the internal bore of the member 2, as shown in Fig. 1. The member 8 is also provided with an internal thread adapted to receive the nipple 9 of the socket 10 so as to hold the same in proper operative position. The members 2 and 8 are provided with central bores 11 through which the proper wires are led to the socket 10. The spider 8 is provided with three legs 12 as shown more plainly in plan in Fig. 4. 14 represents a spun metal member (see Figs. 1, 2 and 3) provided with three vertical slots 13 adapted to register with the three legs 12 of the spider 8 in such manner that the said member 14 may be passed upwardly until the legs 12 have reached the bottom of the slots 13 and then rotated in a right-handed direction until the legs 12 are in line with the slots 15 and then if lowered be locked in place by the depending lip 20 in the manner known as a "bayonet joint" construction.

The member 14 has a vertical cylindrical portion of such diameter as to fit within the opening in the neck of the shade which is desired to be attached to the fixture and is provided at its lower portion with a flange 16 adapted to engage the expanded portion of the shade 18. The shade 18 is provided with a flange 17 against which the metal flange 5 presses when the bonnet 4 is moved downwardly as when the member 3 is screwed downwardly upon the member 2. 19 represents an ordinary electric lamp or bulb carried by the usual socket 10.

The operation of my improved fixture is as follows starting with the various parts in the positions indicated in Fig. 1 in which the three legs 12 of the spider 8 are in register with the slots 15: If it be desired to more tightly clamp the shade 18 the nut 3 may be revolved so as to move downwardly upon the threaded portion 2. This will crowd the flange 5 of the bonnet 4 upon the flange 17 of the shade 18 and press the same downwardly upon the flange 16 of the member 14 which will be held from any downward movement by engagement with the legs 12 of the spider 8 and thus the shade will be more firmly clamped between the members 5 and 16. If it be desired to remove the shade the nut 3 may be turned in such direction as to raise the bonnet 4 until there is sufficient clearance between the flange 5 and the flange 17 of the shade to allow the member 14 to be raised so that it will revolve until the legs 12 of the spider 8 register with the openings 13 when the said member may readily be withdrawn from the spider and the shade taken down and the thimble 14 removed if desired. To replace the shade the nipple 14 may be slipped through the neck of the shade and then the slots 13 brought to register with the legs 12 and the thimble 14 and shade 18 may be raised until the legs 12 will pass under the lip 20 and then the thimble 14 may be given such revolution as will bring the legs 12 in register with the slots 15 and then the thimble 14 and shade may be released and locked in place upon the legs 12. If then the member 3 be screwed downwardly the same will cause the flange 5 to bear upon the flange 17 and firmly hold the shade in its proper position as indicated in Fig. 1. The depending flange or petticoat 6 will cover

the flange neck of the shade 18 in such manner as to conceal the same. The heated air within the shade 18 may pass upwardly through the thimble 14 and out to the atmosphere through the ventilating apertures 7 so as to prevent the bulb or fixture from becoming overheated.

From the foregoing it will be plain that I have constructed a simple and strong form of fixture adapted to hold an electric lamp in a desired position and firmly hold in operative relation thereto a reflector or shade in such manner that the same will not rattle when subjected to vibration as when used upon railway cars. Also that I have produced a fixture in which the means for holding the shade and lamp are readily concealed in such manner as to permit of ornamental design and construction.

I do not wish in any way to limit myself to the exact constructions or modes of operation set forth in the above description for it is obvious that considerable change in the form of fixture may be made without departing from the spirit of my invention which is as set forth in the following claims:

1. A lamp fixture comprising a nipple having a socket and an exterior screw-threaded portion; a spider having a screw-threaded connection with said socket and means for supporting a lamp-socket; a shade-holder comprising two members, one of which has means for supporting it upon the spider and the other of which is rotatably connected to the screw-threaded portion of said nipple; and one of said members having a circumferential outwardly-extending flange upon which the neck of a shade may rest, and the other member having a flange for engaging the neck of the shade and adapted, when rotated upon the nipple, to firmly clamp the neck of the shade against said circumferential flange.

2. A lighting-fixture comprising means for carrying a lamp-socket; a lamp-socket secured to said carrying means; means for carrying a shade in cooperative relation to said socket, including a cylindrical member adapted to pass over said socket, and provided with means for engaging a portion of said fixture, and also having means for engaging the inner surface of a shade; and movable means carried by said fixture for pressing upon the outer surface of said shade to firmly hold the latter.

3. In combination with a lamp-socket, a shade-support comprising means adapted to receive a retaining member; rigid supporting means for said receiving means; a unitary retaining-member coacting with said receiving means and adapted to be inserted within the shade and around the socket; and means for supporting the retaining-member in position and limiting its movement relatively to said receiving means, the said retaining-member being out of contact with said socket.

4. The combination with a lamp-socket, means for supporting the same and an apertured shade, of means for holding said shade in operative position comprising a thimble passed through said shade and provided with a flange engaging the same; means for engaging the socket-supporting means; and means carried by the supporting means for pressing said shade against said flange.

5. A lamp-fixture comprising means for supporting a lamp-socket, said supporting means having radial projections; and a clamp for engaging the neck of a lamp-shade, said clamp comprising a member removably connected to the radial projections, and a member rotatably connected to the supporting means and movable longitudinally relatively to the other member, whereby rotation of the movable member on the supporting means will cause said member in cooperation with the other member to firmly clamp and hold a shade.

6. A lamp-fixture comprising means for supporting a lamp-socket; a shade-holder consisting of two members one of which is arranged within the other, the inner member having a pin and slot connection with the socket-supporting means and being adapted to enter the lamp-shade to engage the neck thereof, and the outer member being rotatably mounted upon the socket-supporting means and being adapted to engage the outside of the neck of the shade; the inner member of said shade-holder having a supporting-flange for the shade, and the outer member having means for forcing the shade firmly into engagement with the flange of the inner member or to release said shade when said outer member is rotated upon the socket-support.

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Witnesses:

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