L. B. HORNBECK.

LAMP HANGER.

APPLICATION FILED APR. 22, 1909.

993,525. **Patented May 30, 1911**

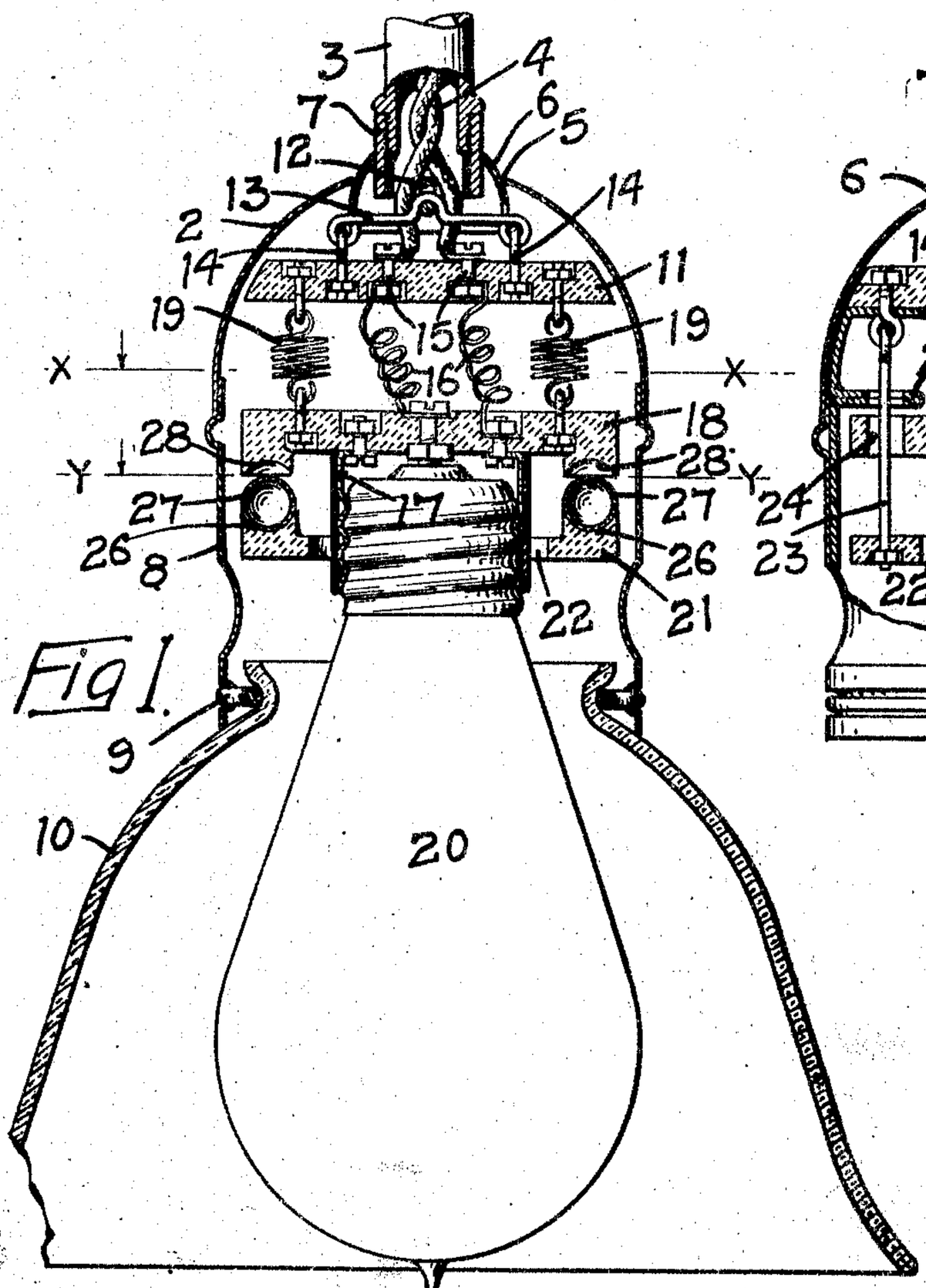

Fig 1.

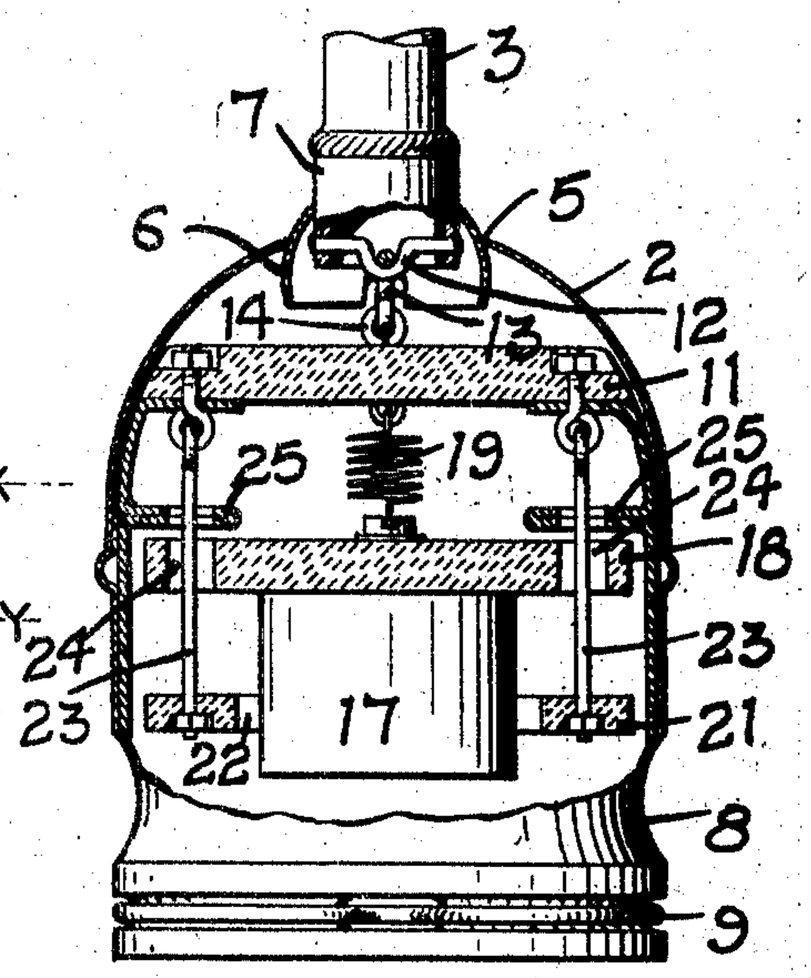

Fig 2.

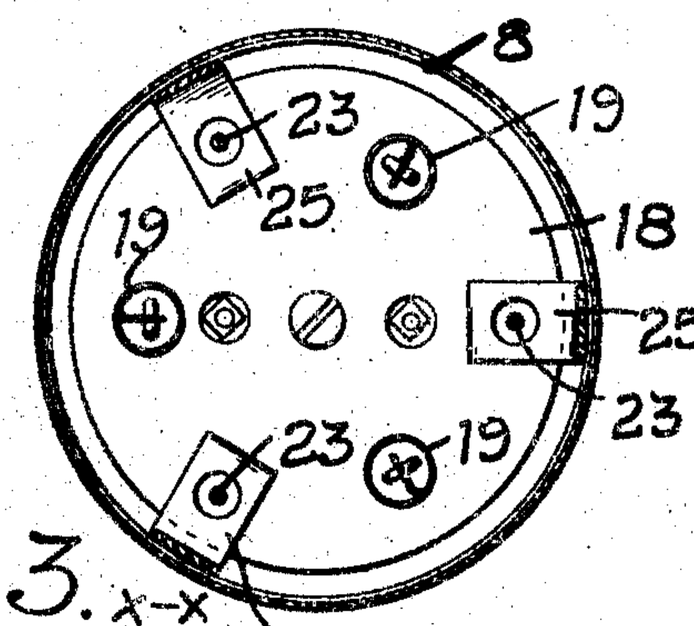

Fig 3. X-X

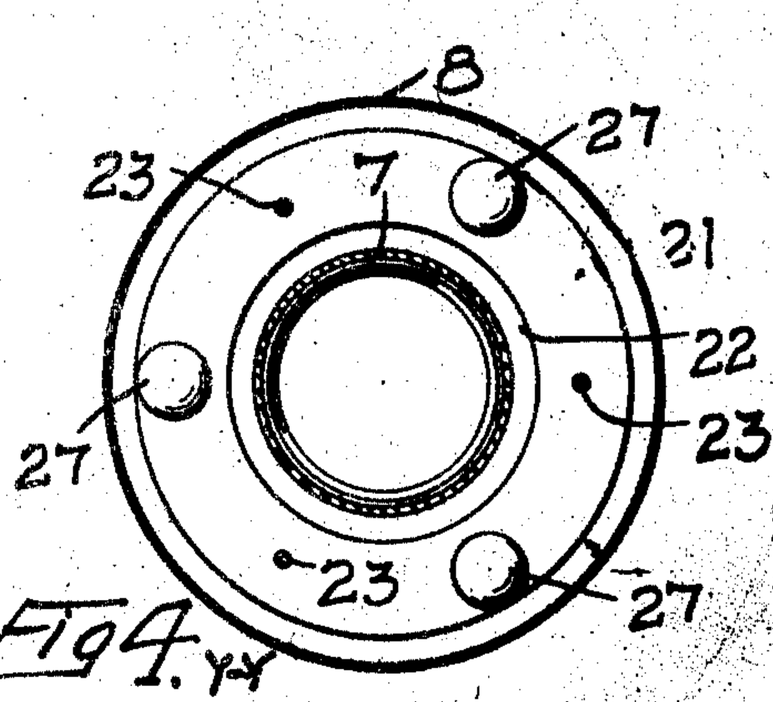

Fig 4. Y-Y

WITNESSES

J. M. Lobstein

J. R. Byington.

INVENTOR -

LLOYD B. HORNBECK

BY Paul & Paul

ATTORNEYS

UNITED STATES PATENT OFFICE.

LLOYD B. HORNBECK, OF MINNEAPOLIS, MINNESOTA.

LAMP-HANGER.

993,525. Specification of Letters Patent. Patented May 30, 1911.

Application filed April 22, 1909. Serial No. 491,478.

To all whom it may concern:

Be it known that I, LLOYD B. HORNBECK, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Lamp-Hangers, of which the following is a specification.

The object of my invention is to provide a support or hanger for an incandescent light, which will take up the jar or shock incidental to the moving of furniture around a house, the passing of street cars or any jar that would produce vibration of the lamp sufficient to cause breakage of the filament.

A further object of the invention is to provide a lamp hanger having means to prevent the transmission of vibration to the lamp and hence adapt it for use on railway cars.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical, sectional view of an incandescent lamp holder, embodying my invention, Fig. 2 is a sectional view illustrating the construction shown in Fig. 1 taken on a section line at an angle to the section line of Fig. 1. Fig. 3 is a sectional view on the line X—X of Fig. 1, Fig. 4 is a sectional view on the line Y—Y of Fig. 1

In the drawing, 2 represents a dome or casing and 3 a pipe or hanger in which the wires 4 are conducted to the lamp. The dome 2 has an opening 5 in its top, in which a shell 6 is fitted and supported by a sleeve 7 on the lower end of the pipe 3. The dome closes the top of the shell and forms therewith a casing inclosing the lamp socket and supporting the globe. The dome 2 is adapted to slide on the shell 6 to allow the lamp to adjust itself at an angle to the vertical, for the convenience of the user, or to permit swaying of the lamp when it is used on a moving car. Below the dome 2 is a cylindrical shell 8 having its upper end telescoping with the lower portion of the dome 2 and provided at its lower end with a spring device 9, which engages and supports a shade or globe 10. Within the dome 2, a block 11 of insulating material is arranged. A bushing of insulating material is provided within the sleeve 7 and a bar 12, also of insulating material has its ends supported in the sleeve 7 and carries an insulating yoke 13, which is attached at its ends to eye bolts 14, secured to the block 11. I prefer to provide this insulating bar and yoke to prevent short circuiting, in case the insulation is worn off the wires 4. The bushing also prevents the wires from contacting with the metallic sleeve. The wires 4 are attached to bolts 15, which pass through the block 11 and conductors 16 lead from the bolts 15 to a lamp socket 17. This socket is carried by a block 18, also of insulating material, and comparatively light coil springs 19 are interposed between the blocks 11 and 18 and support the lamp, forming a yielding carrying means therefor. The socket 17 is adapted to receive an ordinary incandescent light 20 arranged within the globe 10. Beneath the block 18 is a buffer plate 21, having an opening 22 to receive the lamp socket. The buffer plate is supported by rods 23 on the block 11, said rods passing through holes 24 in the block 18 and through brackets 25, which are secured to the block 11 and to the cylindrical shell 8, which in turn, supports the globe 10. I am thus able to suspend the globe and the shell, by which it is carried from the pipe 3, and relieve the lamp socket entirely of the weight of these parts, which are usually connected with the socket and render it impracticable to employ light supporting springs to take up the vibration and prevent damage to the lamp filament. Seats 26 are formed in the buffer plate 21, to receive balls 27 of yielding material, such as rubber. These balls are adapted to contact with the concave surfaces 28 provided in the under side of the block 18 and cushion the said block. The distance between the block 18 and the plate 21 can be regulated by the adjustment of the rods 23.

It will be noted that an important feature of this invention is the manner of supporting the lamp socket and the lamp independently of the globe, and at the same time providing means whereby the angle of the fixture can be varied to compensate for swaying or rocking of the car, in which the lamp may be mounted. It will also be noted that the dome can be raised to expose the blocks 11 and 18 and allow access to the connections without the necessity of removing the fixture from the hanger.

I claim as my invention.

1. The combination, with a casing and a globe carried thereby, of a block yieldingly

suspended within said casing and having a lamp socket and a lamp fitting therein, said socket and lamp being supported independently of said casing and globe, the yielding support of said block allowing it to swing laterally and move vertically to take up shock or vibration, substantially as described.

2. In a device of the class described, the combination, with an oscillating casing and a support therefor, of a block arranged within said casing, a second block having a yielding connection with said first-named block, a lamp socket carried by said second named block, and a globe carried by said casing.

3. The combination, with a hanger, of a casing supported thereon, a block within said casing, coil springs depending from said block, a second block carried by said coil springs, and a lamp socket depending from said second block.

4. The combination, with a hanger, of a casing, a block yieldingly suspended therein and having a lamp socket, and means below said block for yieldingly resisting its downward movement.

5. The combination, with a lamp hanger, of a casing, a block within said casing having a lamp socket, a buffer arranged below said block and balls of yielding material carried by said buffer in the path of said block.

6. The combination, with a pipe, of a shell supported thereon, a dome having an opening to receive said shell and adapted to slide thereon, a block inclosed by said dome and having an independent support from said pipe, a lamp socket carried by said block and said dome being capable of sliding vertically on said pipe to expose said block and socket.

7. The combination, with a pipe, of a casing supported thereon, a lamp globe carried by said casing, and a lamp socket depending within said casing and yieldingly supported independently of said casing and globe, for the purpose specified.

8. The combination, with a hanger, of a block, a yoke mounted on said block, a bar supported in said hanger and carrying said yoke, and a plate having a lamp socket yieldingly suspended beneath said block, substantially as described.

9. A device of the class described, comprising a casing, a block therein having a lamp socket, a series of springs yieldingly supporting said block within said casing, means in the path of said block for yieldingly resisting downward movement thereof, and a globe.

10. The combination, with a hanger, of a yieldingly supported lamp socket pivotally connected therewith, a casing inclosing said socket and said pivotal connection, a shell having a sliding contact with said casing and permitting the tilting thereof with respect to said hanger without exposing said pivotal connection.

11. The combination, with a hanger, of a casing supported thereon, a lamp globe carried by said casing, a lamp socket, a spring supported block whereon said lamp socket is mounted, and a guide permitting a limited lateral oscillation of said block and socket.

12. The combination of a hanger, a lamp socket pivotally connected therewith, a casing inclosing said socket, a shell having a sliding contact with said casing and permitting the tilting thereof with respect to said hanger, for the purpose specified.

In witness whereof, I have hereunto set my hand this 17th day of April 1909.

LLOYD B. HORNBECK.

Witnesses:
JULIA A. BYINGTON.
JESSIE M. SULLIVAN.