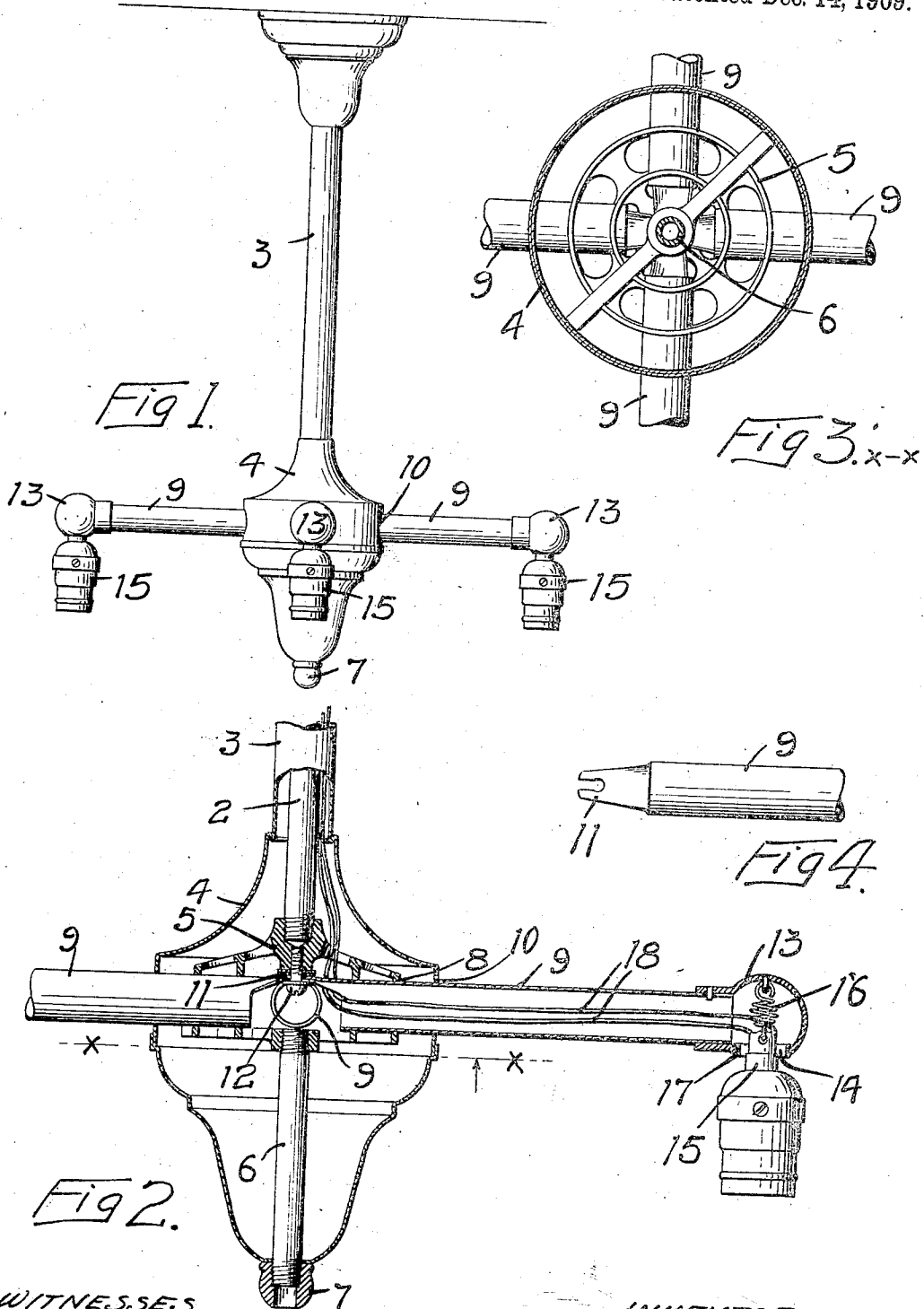


L. B. HORNBECK.
CHANDELIER.

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943,148.

Patented Dec. 14, 1909.



WITNESSES
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UNITED STATES PATENT OFFICE.

LLOYD B. HORNBECK, OF MINNEAPOLIS, MINNESOTA.

CHANDELIER.

943,148.

Specification of Letters Patent.

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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 Chandeliers, of which the following is a specification.

My invention relates to light fixtures and particularly those of the chandelier type.

The object of my invention is to provide a simple, inexpensive means for mounting the lamp-fixture-supporting arm in the hanger portion of the chandelier.

A further object is to provide means for supporting the lamp socket, which will eliminate vibration thereof to a large degree and thereby prevent breakage of the electric bulb filament.

Other objects of the invention will appear from the following detailed description.

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 side view of a chandelier, embodying my invention, Fig. 2 is an enlarged sectional view of the same, Fig. 3 is a sectional view on the line X—X of Fig. 2, Fig. 4 is a detail view, showing the construction of the inner end of one of the bracket arms.

In the drawing, 2 represents the hanger of the chandelier depending from the ceiling, having an encircling tubing 3 and a vase-shaped casing 4 inclosing a head 5 made preferably of cast metal and having a socket to receive the lower threaded end of the hanger 2. Beneath the head is an extension 6 of the hanger having its upper threaded end fitting within a socket in the head and depending below the casing 4 and provided with an ornamental knob 7. The head 5 is skeleton in form preferably, and has a series of holes 8 therein corresponding in number to the number of brackets or arms on the chandelier. Generally these brackets or arms consist of tubing having a finished outer surface and a threaded inner end fitting into a socket supported by the hanger, or an ordinary gas pipe is inclosed with an ornamental tubing. Both of these constructions I dispense with entirely and provide a series of thin tubes 9 fitting within openings 10 in the walls of the casing 4 and within the holes 8 in the head and having forked inner ends 11 that are adapted to straddle

a set screw 12 mounted in the upper portion of said head and adapted when it is turned to its seat, to engage and clamp the forked portions 11 and securely hold the tubes 9 against longitudinal movement. The tubes will have bearings at several points in the head and on the casing 4 and will easily support the weight of a lamp. At the outer end of each tube, I provide a head 13 secured to the tube by suitable means and having an opening 14 in its under side, into which the neck of the light socket 15 is inserted. This neck fits loosely within the opening and is connected to the upper walls of the head by a yielding means, such as a coil spring 16. This spring allows the light socket to move vertically and laterally a limited distance and accommodate itself to vibration without jarring the lamp font.

A suitable bushing of rubber, cork or other suitable material 17 is placed within the opening 14 inclosing the neck of the socket and by varying the size of this bushing, I am able to regulate the degree of lateral oscillation of the socket. Conductors 18 are connected to the socket and pass through the head and up through the tube 3 to the ceiling.

It should be understood that this invention is adapted for any style or size of chandelier and may also be used with a wall bracket, if preferred. A chandelier having arms mounted in this way, can be easily taken apart and shipped in knock-down form as readily as one having hinged arms.

My invention possesses a further advantage in the fact that a new arm can be easily substituted for an old one and the parts can be quickly assembled without the necessity of employing skilled labor. Upon removing the ornament at the lower end of the chandelier, the continuation of the hanger can be taken out and the set screw engaging the inner ends of the chandelier arms becomes readily accessible and can be loosened or tightened, as desired.

I claim as my invention:

1. A chandelier, comprising a hanger, a head supported thereon and having radial openings, tubes fitting within said openings and having notched inner ends, and a set screw arranged to engage said ends and lock them in said head, substantially as described.

2. A chandelier, comprising a hanger, a head supported thereon having radial openings, tubes fitting within said openings and

having forked inner ends, a set screw mounted in said head and arranged to be straddled by the forked ends of said tubing, said set screw being adapted to be tightened to lock said ends in said head.

3. A chandelier, comprising a hanger, a head supported thereon having radial openings, tubes slidably fitting within said openings and radiating horizontally from said head, an ornamental casing inclosing said head and having openings through which said tubes project, said tubes forming lamp arms or brackets, and means comprising a set screw for clamping said tubes simultaneously within said head.

4. A chandelier, comprising a hanger, a head supported thereon having radial openings, a casing inclosing said head, tubes fitting within holes in said casing and within the radial openings in said head and forming lamp arms or brackets, said casing having an opening in its lower end, and means comprising a set screw adapted to engage the inner ends of said tubes and accessible through said opening for securing the inner ends of said tubes.

5. A chandelier, comprising a hanger, a head supported thereon and having radial openings, a casing inclosing said head and

having holes to register with the openings in said head, tubes fitting within the holes in said casing, and the radial openings in said head, said hanger having an extension depending below said head, and registering with an opening in the lower end of said casing, and means including a single locking screw in said head and accessible through said extension for securing the inner ends of said tubes, substantially as described.

6. A chandelier, comprising a hanger, a head supported thereon having radial openings, tubes fitting within said openings and having extensions at their inner ends, and means engaging said extensions and locking said tubes simultaneously.

7. A chandelier, comprising a hanger, a head supported thereon and having radial openings, tubes fitting within said openings and having notched inner ends, and means arranged to engage said ends and lock them in said head.

In witness whereof, I have hereunto set my hand this 15th day of December 1908.

LLOYD B. HORNBECK.

Witnesses:

RICHARD PAUL,
J. A. BYINGTON.