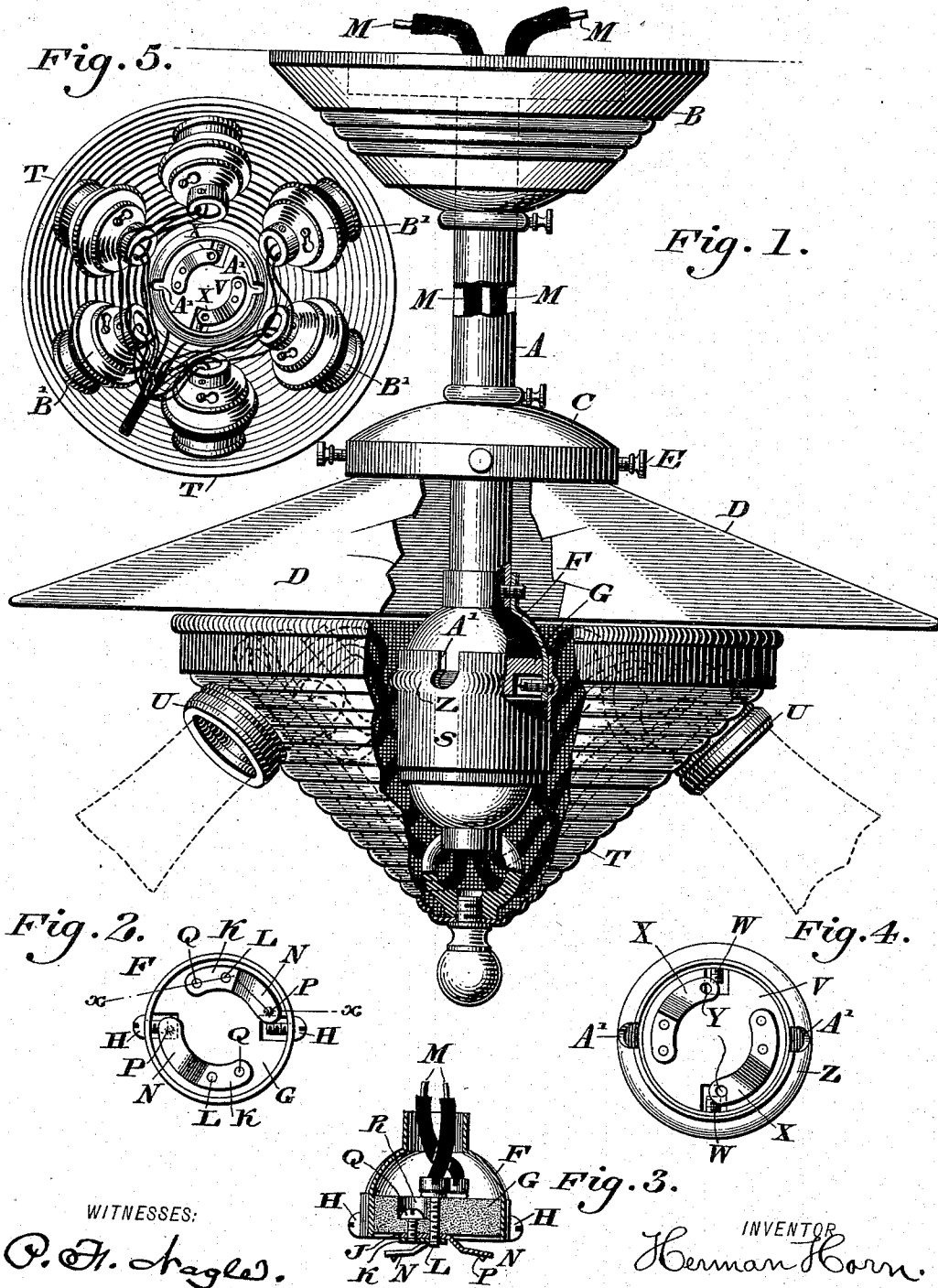


(No Model.)

H. HORN.
ELECTRIC LIGHT FIXTURE.

No. 530,343.

Patented Dec. 4, 1894.



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ELECTRIC-LIGHT FIXTURE.

SPECIFICATION forming part of Letters Patent No. 530,343, dated December 4, 1894.

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To all whom it may concern:

Be it known that I, HERMAN HORN, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Electric-Light Fixtures, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of improvements in electric light fixtures, which are more especially designed to support a cluster of lights, the same being made of separable parts, whereby the light-supporting part is convenient for removal, and the necessity for cutting the wires is avoided, the said parts being also readily replaceable without re-uniting the wires, and provision is made for readily replacing a broken shade, or for making other simple repairs without the assistance of a skilled electrician, all as will be hereinafter set forth.

Figure 1 represents a side elevation of an electric light fixture, having a portion broken away, embodying my invention. Fig. 2 represents a bottom plan view of a portion of the stationary part of the same. Fig. 3 represents a section on line *x, x*, Fig. 2. Fig. 4 represents a plan view of the lower socket of the fixture, and Fig. 5 represents a plan view of the reflector, showing the lamp sockets in position.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates a hollow stem, the upper extremity of which is adapted to be suitably secured to any desired point, preferably the ceiling of a room.

B designates a rosette for the top of the stem.

C designates a holder for the shade D, the latter being held in place by means of the screws E.

To the lower end of the stem A is suitably secured the hollow head F, the open end of which is closed by a disk of porcelain G, which is held in place by the screws H, the heads of which have another function to be hereinafter described.

To the outer portion of the porcelain disk G, are secured the brass plates J and K, by means of the binding screws L, the heads of which are in suitable contact with the wires M,

which pass downwardly through the stem A, and serve to conduct the electric current to the said contact plate J, a portion N of which is off-set, and is provided with the slight projection P. The plate K assists in holding the plate J against the disk G, the binding screw L and the screw Q passing through both plates, the head of the screw Q resting preferably in a recess R in the disk G. The plates J are two in number, as are also the wires M and the binding screws L, Fig. 3.

S designates the socket of the fixture, to which is suitably attached the inverted cone shaped reflector T, which is preferably corrugated and also serves as a lamp holder, said reflector serving to conceal said socket S and also the lamp sockets B' and the electrical connections therebetween, the rings or bushings U assisting to hold the lamp sockets in position, and to give the fixtures a finished appearance.

The upper portion of the socket S is provided with a porcelain disk V, which is held in place by the screws W, W, and has also the off-set contact plates X, which are provided with the holes Y, which receive the projections P, when the said parts are placed in juxtaposition, the plates X being held in place and being provided with wires and binding screws, &c., in all respects similar to the construction shown in Fig. 3, said plates being somewhat elastic.

Z designates an annular enlargement near the top of the socket S, and A' designates slots therein, diametrically opposite each other, which are adapted to receive, and serve as a guide for the heads of the screws H.

The operation will now be apparent. Assuming the parts to be in the position shown, suppose for any reason it is desired to take the fixture apart, the socket S is turned until the heads of the screws in the fixed portion F reach the slots A', the projections P on the contact pieces N being disengaged from the holes Y by this movement, and a pull downward separates the light-supporting part from the stem A, and a new shade may be placed in position, or repairs made if desired, without cutting any of the wires or the employment of skilled labor. To put the fixture together, the parts are placed in juxtaposition,

as above described, and turned till the projections P enter the holes Y, when the circuit is completed.

It will be evident that the number of lamps may be increased or diminished, and that the reflector may be secured to the socket S in any suitable manner. Within the reflector T are secured the electric lamp sockets B', the same thus being concealed from view from the outside, leaving only the light-giving lamps exposed to the reflecting power of the shade and reflector, thus increasing the volume of light and avoiding the formation of shadows.

It is obvious that the reflector T may be of various shapes other than cone-shaped, as shown and it is also evident that other changes may be made by those skilled in the art which will be within the scope of my invention and I do not therefore desire to be limited to the exact constructions I have herein shown and described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A stem, one end of which is adapted to be secured to some fixed point, the other end of which is detachably secured to a socket S the latter carrying a reflector which serves to support and conceal within itself the lamp sockets B' and the electrical connections therefrom to said socket S, the above parts being combined substantially as described.

2. A stem having a hollow head, a disk secured therein, contact plates secured thereto, said plates being adapted to engage other contact plates secured to a similar disk in a socket, the latter being separable from the stem and being adapted to support a reflector which also serves to support lamp sockets and electrical connections thereto, said parts being combined substantially as described.

3. A stem, a hollow head thereon, a disk secured therein, contact plates J suitably secured to said disk, said plates having studs

or projections P, a socket S having also a disk and off-set contact plates, the latter having openings to receive said projections P, a reflector suitably attached to said socket, said reflector being adapted to serve as a support for electric lamps, and means for guiding and holding said socket in place, substantially as and for the purpose set forth.

4. A sectional electric light fixture having contact devices, and adapted to support several lamps, a removable socket portion having a reflector secured thereto, which is common to all of said lamps, and electrical connections supported by said socket within said reflector, said parts being combined substantially as described.

5. An electric light fixture having a part adapted to be held stationary in position, and a shade connected with said part, and another part removably connected with the former the removable part being provided with an inverted cone shaped reflector, and one or more electric lamps attached to the latter, said parts being combined substantially as described.

6. A sectional electric light fixture having a supporting device, an open top reflector secured to said supporting device, lamp sockets attached to the interior of said reflector, and electrical connections thereto, concealed by said reflector, the latter also concealing said sockets, said parts being combined substantially as described.

7. In a sectional electric light fixture, an immovable portion adapted to support a shade, and another portion removably connected with the former, said removable part being provided with an open top reflector, the latter being adapted to support and conceal lamp sockets, substantially as described.

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