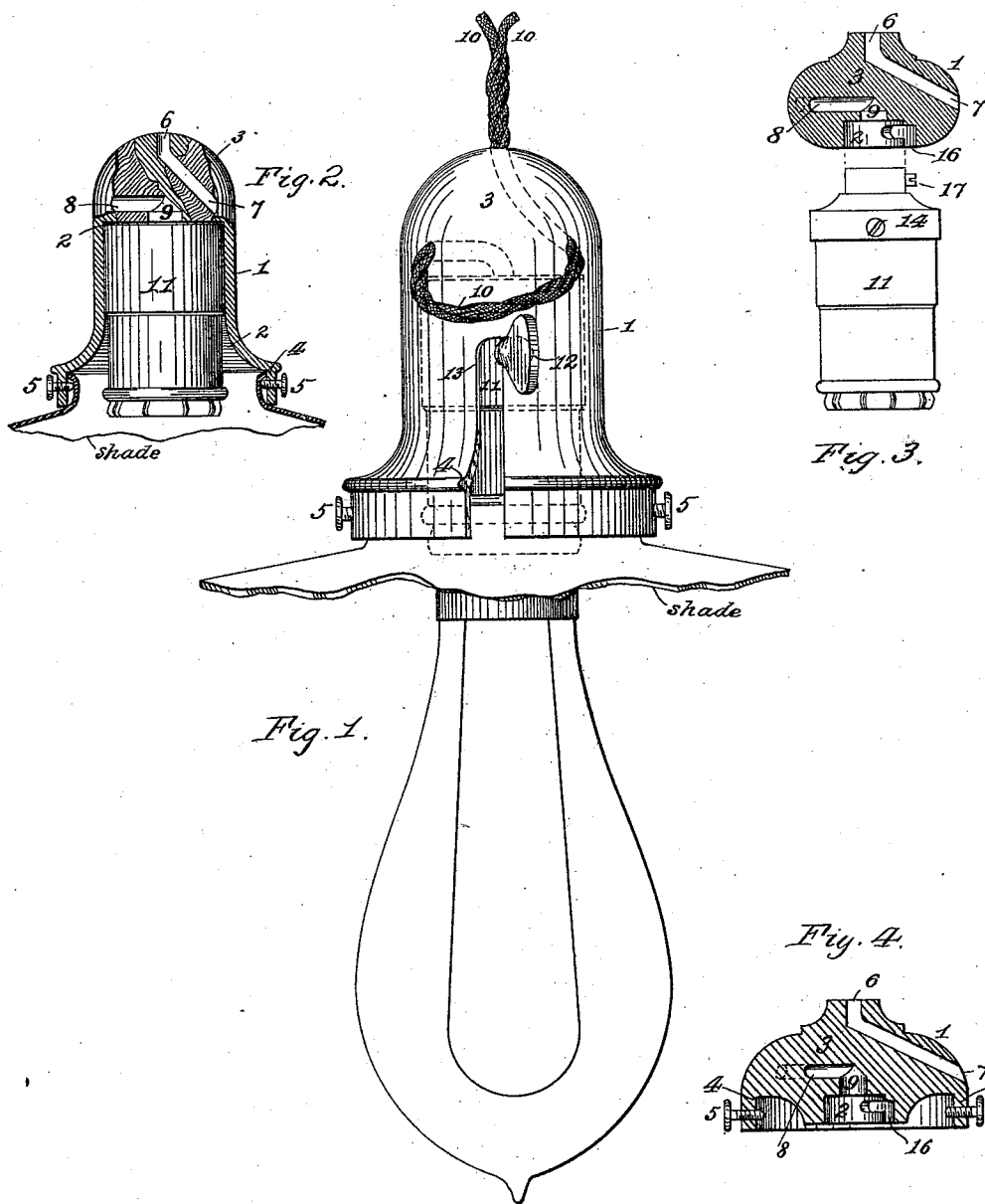


(No Model.)

G. C. BAILLARD.  
ELECTRIC LIGHT FIXTURE.

No. 418,636.

Patented Dec. 31, 1889.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE C. BAILLARD, OF NEW YORK, N. Y., ASSIGNOR TO J. H. BUNNELL & CO., OF SAME PLACE.

## ELECTRIC-LIGHT FIXTURE.

SPECIFICATION forming part of Letters Patent No. 418,636, dated December 31, 1889.

Application filed October 16, 1889. Serial No. 327,179. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE C. BAILLARD, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Electric-Light Fixtures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to the construction of what may be termed a combined adjustable suspension device, lamp-holder, and shade-holder for incandescent electric lamps, the object being to obtain a device which will in a simple manner permit the suspension of the lamp and shade, or either of them, by the two conducting-wires in such manner that the height of the lamp may be readily adjusted to suit circumstances, and at the same time afford a reliable means of attaching the lamp-socket and shade or reflector.

To these and other ends my invention consists in the combination and arrangement of parts, substantially as hereinafter fully described and claimed.

In the drawings which form part of this specification, Figure 1 is an elevation of the complete suspension device, showing it in connection with a lamp and shade holder, a key-socket, lamp, and shade. Fig. 2 is a vertical section of the same on a reduced scale, without the lamp. Fig. 3 is a similar section of a simple and compact adjustable suspension device adapted for holding a lamp having a keyless socket. Fig. 4 is a vertical section of a device similar to that shown in Fig. 3, but with shade-holding flange.

I first construct the pendant 1, which will generally be of a general bell shape, having the internal recess 2, the solid head 3, and the shade-holding seat 4, through the flange of which are fitted two or more clamp-screws 5. In the head 3 I bore a central perforation 6, to meet an inclined channel 7, passing out laterally through the head. I bore another channel 8 horizontally into the head from the outside, so as to meet a recess 9 in the under part of the head. These channels form a dev-

which carry current to the lamp. The conductors pass first through the passages 6 7, then out around and into passage 8, and thence by recess 9 to the lamp-terminals in the socket 11. In the design shown at Fig. 1 the lamp-socket is one fitted with a switch and turn-off. The key 12 and the socket are maintained in position in the pendant 1 by means of the bayonet-slot 13, cut in the wall of the latter. The friction developed on the flexible conductors 10 by the channels above described is more than sufficient to firmly hold the entire fixture, including the lamp and shade, at any position to which the pendant may be placed thereon. To change its position it is only necessary to take hold of the loop extending between the channel 7 and channel 8 and slide the pendant 1 upwardly or downwardly on the conductors 10, and it will remain in any position thus obtained without placing any tension on the conductor between the channel 8 and the terminals in the lamp-socket. The key 12 of the lamp-socket projects outwardly at a convenient point, so that it may be as readily operated as if the pendant 1 were not present, and by using it as a means of locking the lamp-socket into the pendant 1 I am able to dispense with the usual metal base-piece to which the various parts of the lamp-socket are attached, and thus effect some slight saving in the cost of the total fitting. Such a base-piece is shown at 14 in Fig. 3.

In the latter figure is shown the manner in which I adapt my invention to a keyless socket. In this the pendant 1 is somewhat different in general shape and its recess 2 is made much smaller, so as to fit the usual projecting end 15 of the socket-base 14. An internal bayonet-slot 16 is constructed for the reception of the screw 17, or in the absence of such usual form of clamping-screw a pin may be placed on the socket-base, so as to engage in the bayonet-slot above mentioned. This affords a firm and reliable seating for the lamp-socket in the pendant 1, which, if desired, may also be furnished with the expanded shade-holder 4, as in Figs. 1 and 2. The pendant 1 shown at Fig. 3 is in other respects the same as the pendant shown in the other figures, having the frictional chan-

nels 6, 7, 8, and 9 for the passage of the flexible conducting-wires by which the device is to be suspended.

The lamp-socket being firmly held in position in either case, the lamp itself may be removed with great facility and replaced as often as circumstances may require.

In Fig. 4 the pendant 1 is constructed as in Figs. 1 and 2, with a flange formed with shade-holding seat 4 and clamp-screws 5, so as to receive and firmly hold the shade or reflector.

Obviously the construction may be considerably varied with respect to the particular direction and angles of the friction-channels in the pendant head 3, as also in the configuration of the pendant itself externally. In the latter respect a great variation is permissible, so as to have the pendant correspond with any desired character of ornamentation. The pendant may be made of wood, rubber, vulcanized fiber, or any other material which lends itself to the construction. In some cases it may be to advantage constructed of glass, and in that event the shade may be made integral with it.

In the drawings and in the above description I have illustrated the invention as used in connection with the form usually known as the "Westinghouse socket;" but obviously I am not confined to any particular style of lamp-socket, as the invention is quite as readily adaptable to any of the forms of lamp-socket which are now or hereafter may be in use. I therefore do not confine the scope of

my invention to any special form of lamp-socket, whether the same be used with or without a key-switch.

I claim as my invention—

1. In incandescent-light fixtures, the combination, with flexible conductors, of a friction pendent block adapted to slide thereon, provided with a recess for a lamp-socket and means of attaching the same.

2. The improved electric-light fixture, comprising a pendent block provided with means of frictional suspension on flexible cords, a seat thereon for the reception of a lamp-socket, and a retaining device—such as a bayonet-lock—for the lamp-socket.

3. The improved electric-light fixture, comprising, in combination, a pendent block provided with means of frictional suspension on flexible cords, a recess therein for the reception of a lamp-socket, and a shade-holder adapted to receive and retain a shade or reflector.

4. The improved electric-light fixture, consisting of a pendent block having a receptacle for a lamp-socket and provided with means of retaining the same, and having a frictional channel for the passage of the suspension cord or conductors.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE C. BAILLARD.

Witnesses:

THOS. P. CROWNE,  
JNO. J. WALDMAN.