

(No Model.)

F. W. MAYER.

MEANS FOR ATTACHING OR DETACHING ELECTRIC LIGHT GLOBES.

No. 568,408.

Patented Sept. 29, 1896.

Fig. 5.

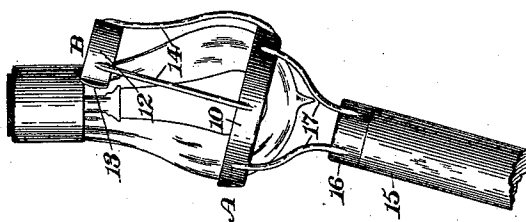


Fig. 3.

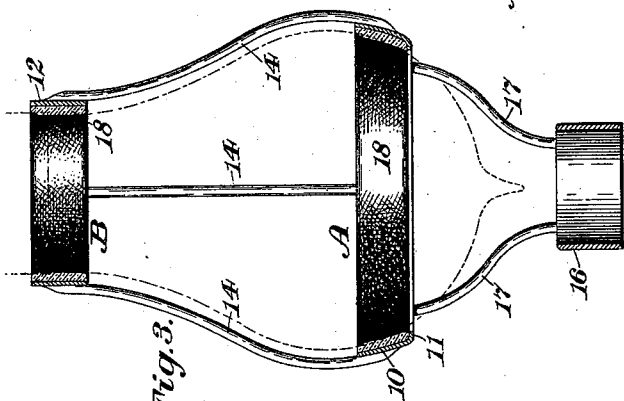


Fig. 4.

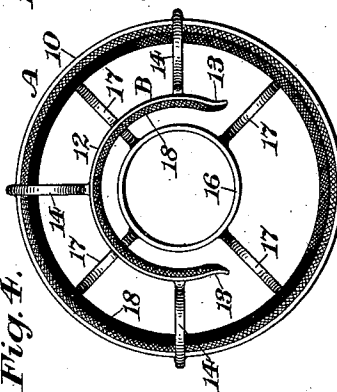


Fig. 2.

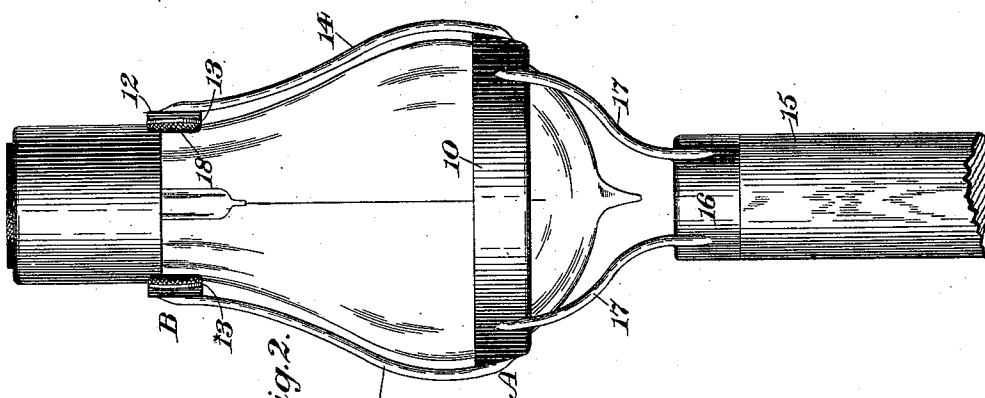
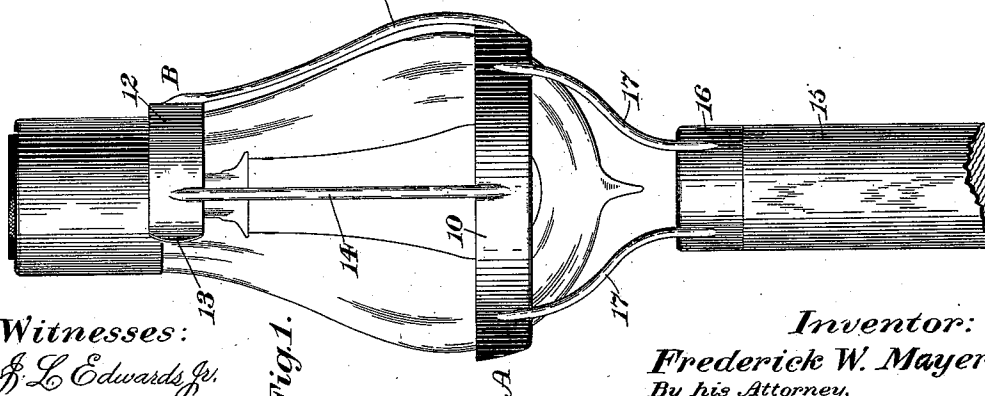


Fig. 1.



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UNITED STATES PATENT OFFICE.

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MEANS FOR ATTACHING OR DETACHING ELECTRIC-LIGHT GLOBES.

SPECIFICATION forming part of Letters Patent No. 568,408, dated September 29, 1896.

Application filed June 26, 1896. Serial No. 597,084. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. MAYER, a citizen of the United States, residing in Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Means for Attaching and Detaching Electric-Light Globes, of which the following is a specification.

This invention relates to means for attaching and detaching light-globes—such as incandescent electric-light globes—to or from their supports, the object thereof being to provide a device of this character whereby such globes can be placed in position on a ceiling or wall or other high place, and removed therefrom, when desired, without the necessity of erecting a scaffold or using a ladder to reach the same.

A further object of the invention is to provide a device not only simple in its construction and effective in use, but also inexpensive in its manufacture, and which in the use thereof will facilitate the placing in position and the removal therefrom of incandescent-light globes.

In the drawings accompanying and forming part of this specification, Figure 1 is a view of this device in position on an incandescent-light globe and showing a part of the handle or pole thereof broken away. Fig. 2 is a view similar to Fig. 1, taken at right angles thereto. Fig. 3 is a vertical sectional view of the device with the pole or handle removed and showing an electric-light globe in dotted-line position. Fig. 4 is a plan view, and Fig. 5 is a view similar to Fig. 1, on a relatively small scale, showing the manner of placing or removing the device with relation to the globe.

Similar characters designate like parts in all the figures of the drawings.

It is a well-known fact that in buildings as now constructed incandescent-light globes are placed near the ceiling, or near the top of the side walls, or at other comparatively remote distances from the floor, it being quite common to erect expensive chandeliers carrying a large number of these globes near the ceiling; but as the filaments thereof become broken, or the lights burn out or become otherwise defective, it necessitates the use of a ladder in ordinary buildings and oftentimes

the use of a scaffold in large structures, or makes it necessary that the chandeliers be movable, in order to lower the same to permit the light to be removed and replaced, and all of which is more or less expensive, both in time and labor, and is, moreover, exceedingly dangerous and especially so when the chandeliers are movable, as at some time or other they are liable to fall—not being fixedly secured in position—so that it is a great advantage to be able to remove or place in position an electric-light globe without the necessity of moving the chandelier or erecting a scaffold or using a ladder. Moreover, as these lights are now used in large numbers in stores it has been found in practice to be a great hindrance to business to be put to the necessity of having a ladder placed in the midst of the crowded store during the busiest hours of the evening in order to remove the defective lights and replace the same, and hence, in order to accomplish this purpose without the disadvantages heretofore usually attendant, I have provided a lamp attaching and detaching device whereby the use of a ladder or a scaffold or the necessity of lowering the chandelier is obviated, and whereby the lamps can be quickly and easily detached from their support or socket on the chandelier or other support and readily and easily replaced by others with comparatively little inconvenience and trouble.

In a general way this device comprises a pair of members (designated by A and B) secured together and a pole or handle operatively connected thereto, said members being so constructed that they can be quickly and easily placed around the globe or bulb of a lamp to engage the same, whereby on the turning of the pole the lamp will be unscrewed from its support or socket or screwed thereon, or whereby on the downward or upward movement of the pole the lamp can be detached or attached, as the case may be, in that class of lamps which are not screwed into their sockets.

In the preferred form thereof herein shown and described the member A preferably comprises a ring-shaped member or band (herein shown provided with an inwardly-turned flange 11 for the purpose hereinafter set forth,) and which member is adapted to

be placed in position around the lower end of an incandescent-light bulb, such member or band preferably flaring outward to conform to the usual contour of such bulb. The other member B comprises a preferably substantially semicircular band 12, disposed concentrically to the band 10 and of a diameter adapted to engage the smaller or neck portion of the globe, said band being preferably provided with outwardly-flaring ends 13, whereby the same can be readily placed in position around the neck in a manner hereinafter set forth. This band 12 is herein shown as of the same diameter from its upper to its lower edge. These two members 10 and 12 may be fixedly secured in position relatively to each other by any suitable means, whereby one will engage the relatively large portion of the globe and the other the relatively small or neck-shaped portion thereof; but in the form shown, and which is the preferable construction thereof, such members are united by a series of connecting members or ribs 14, equidistantly disposed and preferably shaped to conform to the usual contour of the globe. There may be any desired number of these ribs and they may be secured to the bands in any suitable manner, such as integrally therewith or soldered or riveted thereto or in any other desired way, and may be of any shape and construction adapted for the purpose, as flat or round, but they are herein shown preferably comprising a series of wires.

As a means for placing this device in position on the globe, the bands 10 and 12 are herein shown operatively connected to a pole or handle 15. For this purpose a tubular member or socket 16 is provided and adapted to be placed on one end of the pole or handle 15, which is reduced in diameter at one end thereof in the usual way for this purpose. This tubular member 16 is connected to the lower band 10 by some suitable means—in the preferred form by a series of connecting members or ribs 17, herein shown as ogee in construction, secured to the band or sleeve in any suitable way. These ribs 17 are preferably so disposed that the ends thereof will come as far as possible intermediate of the points of connection of the first set of ribs 14 with the lower band 10, whereby greater rigidity and a firmer clamping means are obtained.

In order to obtain a firm frictional engagement of these members 10 and 12 with a globe, and in order to also prevent the breakage thereof, each band is shown provided on its interior with a lining of some suitable cushioning material 18, preferably rubber, which may be secured in position thereon in any desired manner, as by cement or by riveting the same, in which latter case the heads of the rivets would be countersunk in the rubber to prevent contact with the globe.

The band 10 in the form shown has this cushioning or frictionally-engaging material

18 resting on the flange 11, whereby the same forms a seat for the rubber to thereby more thoroughly hold the same in place.

Any suitable means may be used for securing the tubular member or socket 16 to the pole or handle, such as by frictional engagement therewith, or the socket may be made removable by securing the same thereto by a clamp device, whereby different lengths of poles could be used and be furnished with each device, if desired, or the parts detached in order to place the same in a smaller space, which objects, however, could be better accomplished by making the pole of separate members and jointed in the same manner as an ordinary fishing-rod, the sections, however, being secured against independent rotation relatively to each other, whereby any desired length of pole or handle could be used.

In the use of this device when a light burns out or for any other reason becomes defective the device is placed at an angle to the lamp, as shown at Fig. 5, to permit the lower band to encircle the larger portion of the globe, and is then moved to permit the semicircular band to grasp the neck or smaller portion of said globe, whereby on turning the pole or handle said lamp can be unscrewed or otherwise detached from its socket or support, owing to the frictional engagement of the rubber material 18 with such globe, in a manner that will be obvious without further description, such device being removed from the lamp when a perfect one has been placed in position by reversing the foregoing operations, whereby, as before stated, incandescent lights when they become defective can be quickly and easily removed and replaced by others without the necessity of a scaffold or the use of a ladder or the necessity of lowering the chandelier for this purpose.

It will be obvious from an inspection of the drawings that the upper semicircular member could be easily dispensed with and the upper ends of the ribs made to simply grasp or clamp the globe at the neck portion thereof.

It will also be understood that the device is adapted for use in order to remove and replace globes which are not screwed into position but simply inserted in their sockets, it being obvious that the engagement of the bands with the globe will permit this on the upward or downward movement of the pole or handle.

Having described my invention, I claim—

1. A device for attaching and detaching electric-light globes, comprising a semicircular band and a circular band, both of said bands being connected together and adapted to engage an incandescent lamp at relatively remote points in its length, and a pole or handle secured to said device.

2. A device for attaching and detaching electric-light globes, comprising a pair of bands secured together and of substantially the same width and adapted frictionally to engage an incandescent-lamp globe directly

at different points in its length, and a pole or handle secured thereto.

3. A device of the class specified, comprising a lower, circular band and a smaller, upper, semicircular band concentric therewith, both of said bands being adapted to engage an incandescent-lamp globe directly; a series of ribs connecting said bands together; and a pole or handle secured to the lower band.

4. A device for attaching and detaching electric-light globes, comprising a circular band and a substantially semicircular band; a series of ribs connecting said bands together; a pole or handle; a socket secured to one end of said pole or handle; and a series of ribs secured to the lower band and to said socket.

5. A device of the class specified, comprising a relatively large band and a relatively small, substantially semicircular band concentric therewith, said bands being adapted to engage a lamp-globe directly at relatively remote points in its length; cushioning or frictionally-engaging material on the interior of each of said bands; and a pole or handle secured to said device.

6. A device of the class specified, comprising a relatively large, upwardly-flaring band and a relatively small, substantially semicircular band having outwardly-flaring ends,

said bands being adapted to engage an incandescent lamp at relatively remote points in its length; and a pole or handle secured to said device.

7. A device of the class specified, comprising a pair of bands adapted frictionally to engage a lamp-globe at different points in its length, and each of said bands being lined on its interior with rubber or other soft material; and a pole or handle secured to said device.

8. An incandescent-lamp attaching and detaching device comprising a relatively large circular flaring band having an inwardly-turned flange at its lower edge and a rubber lining on its inner face; a relatively small substantially semicircular band concentric with said larger band and having outwardly-flaring ends and also having a rubber lining on its inner face; a series of ribs connecting said bands together; a pole or handle; a socket engaging one end of said handle; and a series of ribs connecting the lower band with said socket and having their points of connection with the relatively large band intermediate of the points of connection of the first series of ribs with said band.

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