

F. I. HOLLINGSWORTH.
ATTACHMENT FOR ELECTROLIERS.
APPLICATION FILED JULY 8, 1910.

1,023,649.

Patented Apr. 16, 1912.

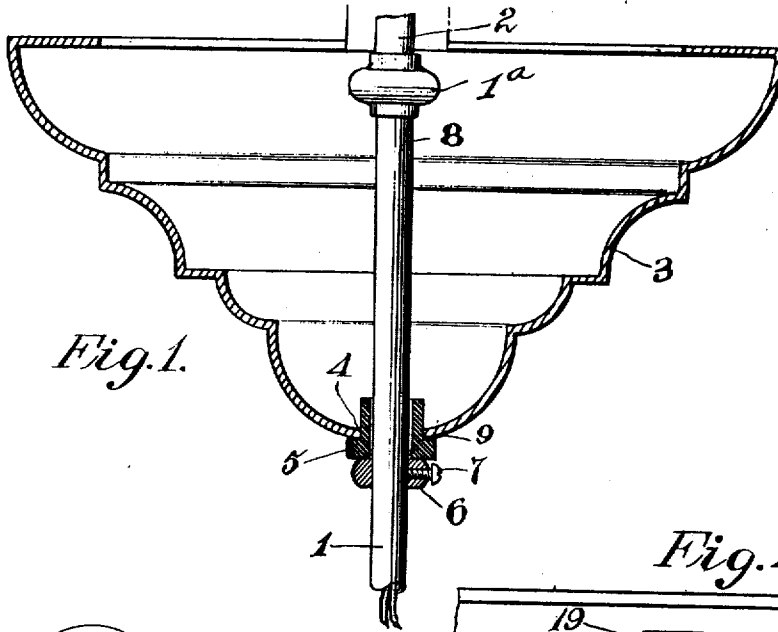


Fig. 1.

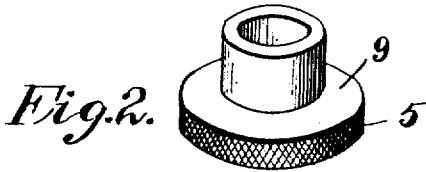


Fig. 2.

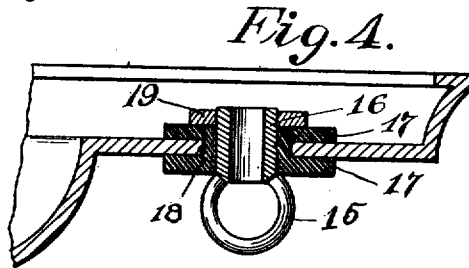


Fig. 4.

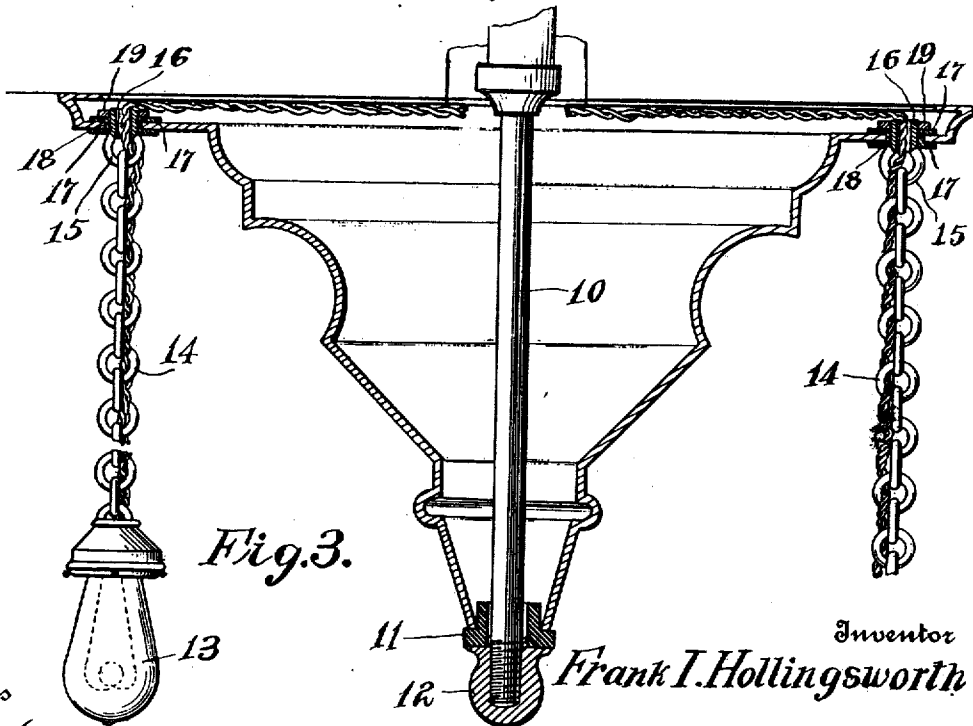


Fig. 3.

Witnesses
Thos. F. Knox,
C. P. Bradley.

Inventor
Frank I. Hollingsworth
By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

FRANK I. HOLLINGSWORTH, OF DENVER, COLORADO.

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To all whom it may concern:

Be it known that I, FRANK I. HOLLINGSWORTH, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented new and useful Improvements in Attachments for Electroliers, of which the following is a specification.

This invention relates to electroliers and more particularly to insulating bushings adapted to be applied to the canopy to insulate the latter from the pipe of the electrolier or from wires that supply the lamps.

The invention has for one of its objects to provide an extremely simple, durable and effective insulating means for canopies which can be readily applied to parts of different shapes, and whereby the canopy can be accurately fitted in position against the ceiling, since the usual insulating means between the canopy and ceiling are dispensed with.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claim appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a sectional view of the canopy of an electrolier showing the insulating bushing applied thereto. Fig. 2 is a perspective view of the insulating bushing. Fig. 3 is a sectional view of a modified form of canopy. Fig. 4 is an enlarged sectional view of the insulating bushing for the electric light wires used in the modified form of the invention.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawing, 1 designates the pipe of an ordinary electrolier which has its upper end connected by an insulating coupling 1^a with a fixture stub or gas pipe 2, and wires lead from a suitable outlet box (not shown) through the pipe to the lamps of the electrolier. Covering the insulating coupling and outlet box is a canopy 3 of any approved design. The canopy has an opening 4 through which the pipe 1 extends and the canopy is insulated from the latter by a bushing 5 which surrounds the pipe and loosely enters the opening of the canopy,

the said bushing being held in place by a stop ring 6 encircling the pipe just below the bushing and clamped in place by a set screw 7. The bushing is made of hard rubber or other insulating material and has one end reduced so as to enter the canopy, and by reducing the bushing a shoulder 9 is formed which bears against the lower end of the canopy and prevents the bushing from slipping into the latter, and hence the canopy coöperates with the ring 6 to hold the bushing in place. It will thus be seen that the canopy is effectively insulated from the pipe of the electrolier and at the same time a neat and effective retaining means for the canopy is provided.

The construction shown in Fig. 3 has the advantage that an insulating coupling in the supporting pipe is not required. The canopy is held in place by a tube 10 which is similar to the pipe 1 in Fig. 1 as far as it acts as a support for the canopy, there being a bushing 11 similar to the bushing 5 applied to the canopy to hold the latter in place, and this bushing is clamped in position by a cap nut 12 or fastening threaded on the pipe or support 10 to thereby clamp the canopy against the ceiling. The canopy supports a plurality of lamps 13 by means of chains 14, the said chains being provided at their upper ends with rings 15 having threaded studs or shanks 16 that pass through bushings 17 similar to the bushing 11, said bushings 17 being fitted in openings 18 in the rim portion of the canopy and held in place by nuts 19 screwed on the shank 16, there being an insulating washer assembled on the inner end of each bushing so as to prevent the nuts from coming in contact with the canopies. The wires for supplying current to the lamps may be arranged in any suitable manner, as for instance by passing through the threaded studs or shanks 16 which are hollow.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when de-

sired as are within the scope of the claim appended hereto.

Having thus described the invention, what I claim as new, is:—

- 5 In combination, an outlet member adapted to be secured to a ceiling or other support, a support depending from said member, a hollow member surrounding said support and having a flange edge adapted to engage
10 the ceiling, said edge being formed with a series of radially spaced openings, an insulating bushing disposed in each opening,

an insulating washer engaging said bushing and said flange, hollow ring bolts disposed in said bushing, means for securing said bolts in place, means secured to said support and supporting said hollow member and chains depending from the bolt rings. 15

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

FRANK I. HOLLINGSWORTH.

Witnesses:

WALTER L. SMITH;

ROBT. C. EHLFRT.