

Oct. 13, 1925.

1,557,515

F. E. WOOLEY  
ELECTRIC LIGHTING UNIT  
Filed Sept. 18, 1924

Fig. 1.

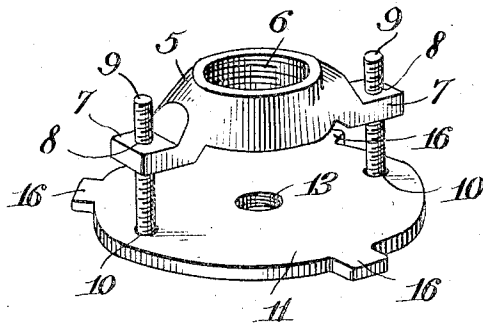


Fig. 3.

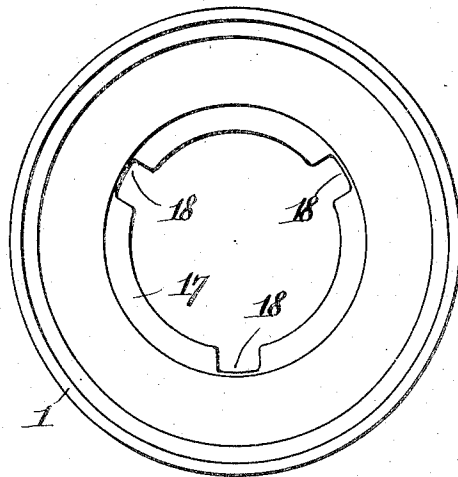
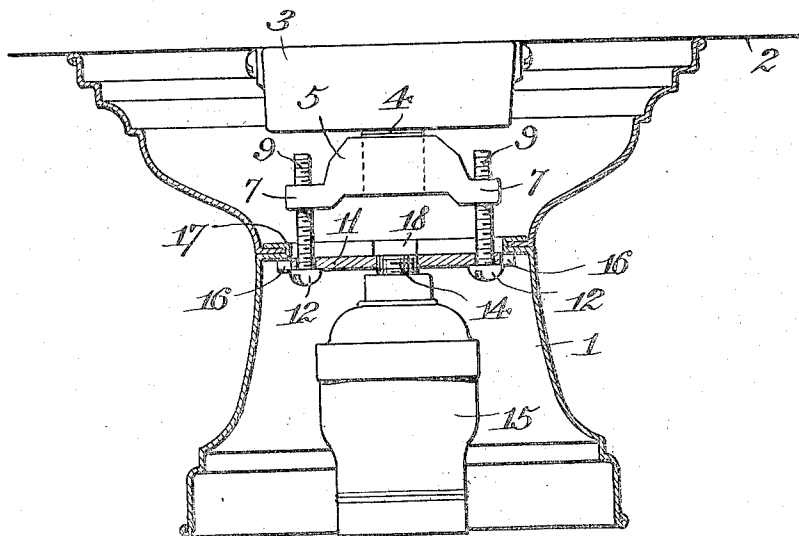


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

FREDERICK E. WOOLEY, OF MANASQUAN, NEW JERSEY.

ELECTRIC LIGHTING UNIT.

Application filed September 18, 1924. Serial No. 738,500.

To all whom it may concern:

Be it known that I, FREDERICK E. WOOLEY, a citizen of the United States, and a resident of Manasquan, in the county of Monmouth and State of New Jersey, have invented a new and Improved Electric Lighting Unit, of which the following is a full, clear, and exact description.

This invention relates to electric lighting units. An object of the invention is primarily to provide a unit for use in connection with the standard outlet, which can be easily and quickly installed, which will be neat and attractive in appearance, and in which the coupling devices are entirely enclosed within the lamp shell.

More specifically the following objects may be enumerated—

To provide an adjustable means of support for so-called "close up single unit" electric fixtures, whereby such fixture can be supported from the threaded stud which forms a part of standard outlet devices, eliminating the exterior wood screws now commonly used.

To provide a means by which such fixture can be more securely and more quickly attached to the surface upon which they are to be mounted.

To provide a means by which such fixtures can be more readily detached for inspection of the outlet and for cleaning, without disturbing the electrical connection or the lamp socket.

To provide a means of insulating such fixtures from the grounded metal equipment of the wiring system without the use of a threaded joint.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts which will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings—

Figure 1 is a perspective view of my improved yoke and coupling plate with the screws connecting them;

Figure 2 is a view in longitudinal section showing my improved mechanism in connection with a lamp shell;

Figure 3 is an end view of the lamp shell.

In connection with my invention I have illustrated a standard type and shape of lamp shell 1 adapted to be positioned against the ceiling or other support 2 and

adapted to enclose the standard type of outlet 3 which is fixed to the ceiling. It is of course to be understood that the invention is not limited to the particular design, shape or proportions of the shell and that the shape shown is for purposes of illustration only.

The standard outlet now required in most parts of the country provides means for connecting the terminals of the lamp socket with the line wires, and I have purposely omitted showing the wire connections as they form no part of the invention and would only tend to obscure the construction.

Standard outlets of this type are made with a depending screw-threaded stud 4, and on this stud 4 I secure my improved yoke 5. This yoke 5 is of proper length and is provided with a central screw-threaded opening 6 to fit the stud 4. The end portions 7 of the yoke are preferably flattened or restricted in depth and are provided with screw-threaded openings 8 receiving screws 9. These screws 9 are projected through openings 10 in a coupling plate 11, the heads 12 of the screws being located below the plate.

The plate 11 is made with a central screw-threaded opening 13 to receive a threaded nipple 14 on the standard lamp socket 15. This plate 11 is also provided at its edge with any desired number of outwardly projecting lugs 16 for a purpose which will appear.

The shell 1 is provided with an internal annular flange 17 and said flange is made with recesses 18 corresponding in number and relative location to the number and relative location of the lugs 16 of plate 11, so that this plate may be inserted in position in the shell, the lugs 16 passing through the recesses 18, and, when the plate is turned or the shell is turned relative to the plate bringing the lugs out of register with the recesses, the plate will serve to support the shell.

In assembling the parts, the screws 9 are loosened so that there is sufficient play to permit a ready coupling and when coupled the screws are tightened by an ordinary screw driver to clamp the shell against the ceiling and rigidly couple the unit to its support.

While I have referred to the plate 11 as having lugs and the flange 17 as having re-

cesses, it is obvious that there may be an exact reversal of these parts with the function and operation alike.

I would also have it understood that while I have illustrated a particular type of shell of two sections having the flange 17 formed by coupling flanges of the two sections, I do not limit myself in this particular as I desire to cover broadly the construction and arrangement of parts 10 whether made as illustrated or not.

It will thus be noted that with a construction of this kind, the entire coupling means is enclosed within the shell, that outside attaching or supporting means is entirely 15 done away with, and that the coupling and uncoupling of the shell with the support can be easily and quickly effected whenever occasion may require.

20 Various slight changes and alterations

might be made in the general form of the parts described without departing from my invention, and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such slight 25 changes and alterations as fairly fall within the spirit and scope of the appended claim.

I claim:

The combination with a shell having an 30 inturned flange, of a support comprising a yoke adapted to be secured at its center to an outlet device, a plate below the support, said plate and flange having registering recesses and lugs permitting the coupling of 35 the plate and flange together, and screws projected through the plate and adjustably mounted in the yoke.

FREDERICK E. WOOLEY.