July 31, 1928. 1,679,110

G. AINSWORTH

COMBINED ELECTRIC LIGHT SOCKET AND COVER

Filed March 6, 1925

Fig. 1

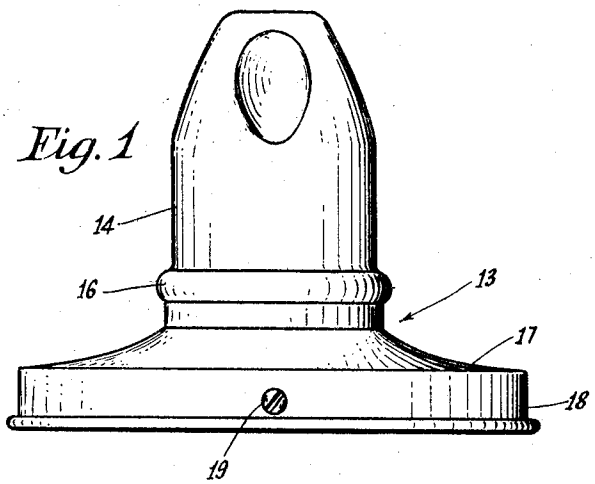


Fig. 2

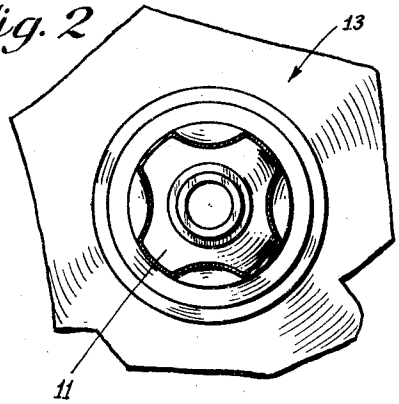


Fig. 4

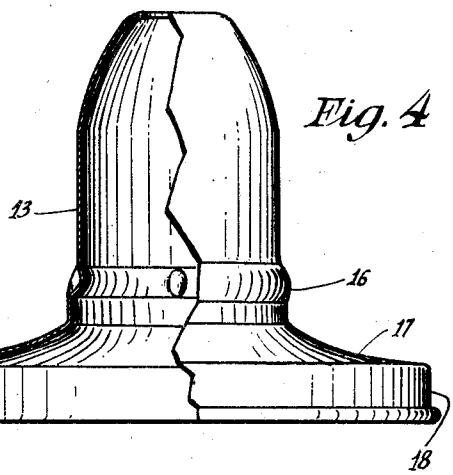
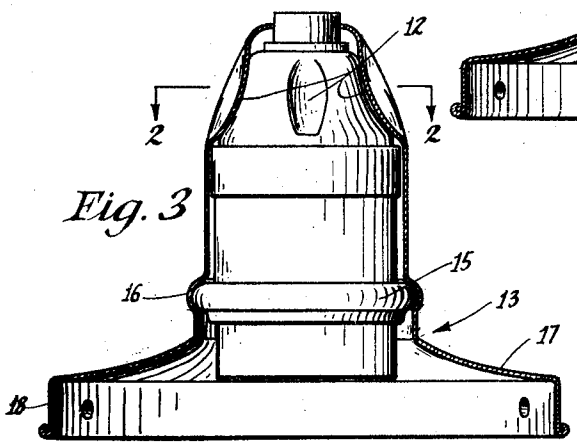


Fig. 3



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UNITED STATES PATENT OFFICE.

GEORGE AINSWORTH, OF GREAT NECK, NEW YORK.

COMBINED ELECTRIC-LIGHT SOCKET AND COVER.

Application filed March 6, 1925. Serial No. 13,435.

My invention relates to that class of socket covers which are designed to enclose electric light sockets.

My invention has for its object to provide a device of this character, in which the brass socket cover may be made up so that the socket will neither drop out nor revolve when it is rotated, and to accomplish this by making the holding and securing means out of, or integral with, the brass socket cover. The cover may also, when desired, be fitted with the usual screws for the purpose of holding a glass shade to its lower edge in the customary manner.

I am aware that socket covers have been made in combination with clamping springs mounted inside of them, which springs serve to hold the socket in position, but I do not know of any socket cover in which the holding and securing means are formed of the cover itself, thereby rendering unnecessary the extra spring clamps required.

My means of accomplishing the foregoing object may be more readily understood by reference to the accompanying drawings, which are hereunto annexed and are a part of the specification, which drawings, however, are furnished merely for illustrative purposes, to show a preferred embodiment of my invention, and I do not desire to be understood as limiting myself to the specific details there illustrated and shown, and described in this specification.

In these drawings—

Fig. 1 is an elevation view of my device;

Fig. 2 is a cross-section, taken on line 2—2 of Fig. 3;

Fig. 3 is a longitudinal cross-section; and

Fig. 4 is a partial cross-section of a modification of my device.

Similar reference numerals refer to similar parts throughout the specification.

As shown in the drawings, a socket 11 is provided with a plurality of indentations 12 adjacent its upper end. The socket cover 13 is preferably formed of brass, though any other material possessing the necessary qualifications of resilience may be used.

This socket cover 13 is provided with an upwardly extending bonnet 14, the top of which is indented to fit the indentations 12 formed in the top of socket 11. The socket 11 is provided with a shoulder 15.

The bonnet 14 is provided with an annular corrugation 16 which fits the shoulder 15 of the socket 11. As illustrated, the socket cover 13 is provided with an outwardly extending portion 17, which is provided with a downwardly depending peripheral flange 18, in which may be mounted screws 19 for the purpose of holding a glass shade (not shown) in the other end. Under some circumstances it may be found desirable to provide indentations in the annular corrugation 16 adapted to engage domical projections on the skirt of the socket 11, in which case it will not be necessary to provide the indentations 12 at the upper end of the socket 11.

It will be apparent to persons skilled in the art that by pushing the socket 11 up into the bonnet 14 to the shoulder 15, it will enter the annular corrugation 16 and snap into position so that it will be securely held from vertical movement, while the indentations in the top of the bonnet 14 will be brought into contact with the indentations 12 adjacent the upper end of the socket, thus securely holding it from rotation. If desired a tool could be used to force the metal forming the neck below the corrugation 16 back into position, though from practical use such has been determined to be unnecessary.

In some instances it may be found desirable to form a plurality of convex depressions in the annular corrugation 16 which will be fitted to and adapted to engage domical projections on the skirt of the socket. Where this is done, obviously it will not be necessary to form the indentations at the top of the socket 12 or the corresponding indentations at the top of the bonnet 14.

Although I have described and illustrated a specific form for utilizing my invention, it will be understood that I do not desire to be limited to the specific details shown and described, they merely showing a preferred embodiment of my invention.

Having thus described my invention, what I regard as new and desire to secure by United States Letters Patent is:

1. The combination with an electric light socket having a plurality of indentations at its upper end and a shoulder formed on said socket, of a cover therefor formed on said socket, said cover having indentations fitted to the indentations at the upper end of said socket, an annular corrugation adjacent the lower end of said cover which fits the shoulder on said socket, whereby said socket may snap into said corrugation when the socket is pushed up into the cover.

2. The combination with an electric light

socket, of a cover therefor, means formed integral with said cover to hold said socket therein when the socket is pushed up into the cover, and means also formed integral with said cover operating to prevent the rotation of the socket within the cover.

3. The combination with an electric light socket having a plurality of indentations at its upper end, of a shoulder formed on said socket, and a cover therefor formed of resilient material, an annular corrugation which fits said shoulder when the socket is pushed up into the cover, said cover having indentations which engage the indentations on the socket to prevent said socket from rotating inside of said cover.

GEORGE AINSWORTH.