Jan. 29, 1929.

1,700,167

F. C. KOLLATH

LAMP AND GUARD HANDLE

Filed June 14, 1927

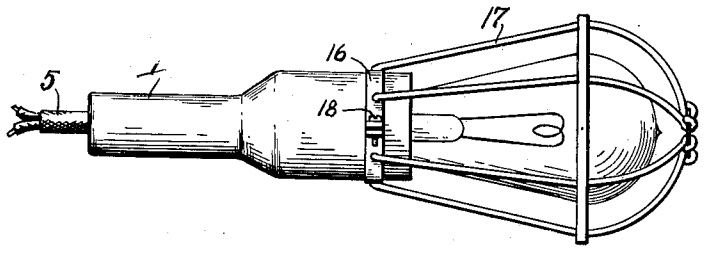


Fig. 1.

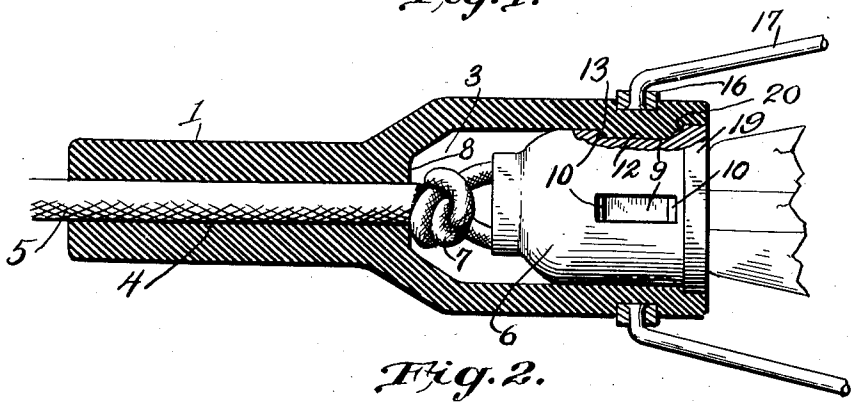


Fig. 2.

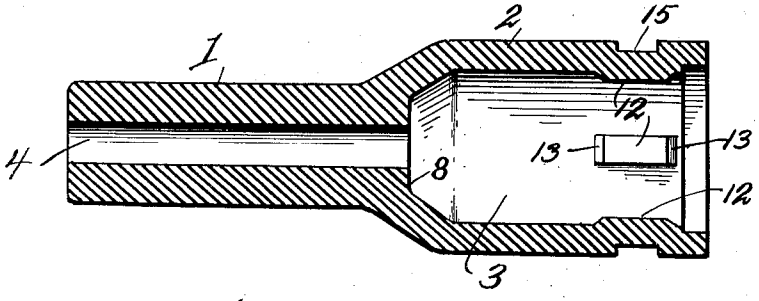


Fig. 3.

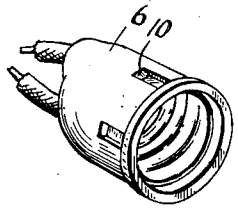


Fig. 4.

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UNITED STATES PATENT OFFICE.

FRANCIS C. KOLLATH, OF CHICAGO, ILLINOIS.

LAMP AND GUARD HANDLE.

Application filed June 14, 1927. Serial No. 198,732.

My invention relates to handles and sockets for portable lamps and lamp guards, and especially to that type wherein the handle is composed of flexible material such as rubber.

One of the objects of my invention is to provide a cooperating locking means between the handle and socket so that the socket will be held securely in place and cannot rotate in the handle when the lamp is screwed in and out and also that when the lamp guard is clamped on the handle the socket is held against longitudinal movement.

Another object of my invention is to provide a device which is cheap to manufacture, easy to assemble and of few parts.

Realizing that my invention may be varied in its physical embodiment without departing from the spirit of the invention, I desire it to be understood that the specific construction and form herein shown is to be taken as illustrative and not in a limiting sense.

In the accompanying drawings like portions of the device are designated by like characters throughout the several figures.

One method of accomplishing my objects is illustrated in the accompanying drawings in which like portions of the device are designated by like characters throughout the several figures.

Figure 1 is a side view of the device completely assembled.

Figure 2 is a longitudinal sectional view of the device shown in Figure 1, a portion of the socket and lamp being shown in full lines.

Figure 3 is an axial section of the handle alone showing the locking lugs.

Figure 4 is a perspective view of the socket illustrating the lug receiving cavities.

Referring now to the drawing in detail, the handle 1 is provided with an enlarged portion 2 having a socket receiving chamber 3 therein, and is preferably made of resilient and comparatively soft rubber which will act as an efficient shock absorber for the socket and lamp and which will stretch sufficiently to receive the socket and hold it securely in place after it is inserted.

The handle 1 is provided with sufficiently thick walls to afford a suitable grip for the user and has a longitudinal passage 4 communicating with the chamber 3 for the electric conductors 5.

The socket 6 is of the usual internal construction; that is, it is provided with the usual threaded shell and center contacts for receiving the lamp in the usual well known manner, which is no part of my invention and need not be described here.

The chamber 3 is somewhat longer than the socket 6, in order to provide room for the knot 7 formed in the conductors behind the socket, the conductors being fastened in the socket in the usual manner. The knot 7 seats against the annular shoulder 8 when tension is exerted on the conductors, thus preventing them from being pulled loose from the socket.

Cavities 9 are located in and near the front end of the socket as illustrated and are provided with inclined front and rear walls 10, and vertical side walls 11. These cavities receive the lugs 12, which are radially disposed in the handle near the front end of the chamber 3, when the socket is inserted.

The lugs 12 are also provided with inclined front and rear walls 13, which, cooperating with the inclined walls 10 of the socket, allow it to be easily inserted and removed. They are also provided with vertical side walls 14 cooperating with the walls 11 of the socket cavities, to prevent effectually rotation of the socket when the lamp is screwed in or out.

Directly outside the internal lugs 12 is an annular groove 15 for receiving the clamping ring of the lamp guard 17. This is an ordinary "split ring" and may be clamped in place by means of the screw 18.

In the ordinary construction the socket will turn in the handle when the guard and clamp are removed for inserting or removing the lamp. It will be readily seen that in my invention as illustrated and described the socket is securely locked rotatably when the clamp is removed, but may be easily inserted or removed. When the ring 16 is clamped in place, the lugs 12 are pressed tightly into the cavities 9 filling them completely and preventing any movement except through the resilience of the rubber handle.

The socket is provided with the flange 19 which cooperates with the shoulder 20 to prevent longitudinal movement of the socket when the lamp is inserted.

It has been found in practice that this construction is very reliable and does not easily get out of order.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent:

1. A hand lamp comprising a handle consisting of a single piece of resilient material and having a chamber in one end for a socket, a socket in said chamber, said socket having radially disposed depressions therein, said depressions having vertical side walls and inclined end walls, corresponding radially disposed lugs in said chamber and having vertical side walls and inclined end walls to cooperate with the walls of said depressions, a flange adjacent the outer end of said socket and having a vertical rear wall, a vertical shoulder adjacent the outer end of said chamber and cooperating with the flange on said socket to prevent longitudinal movement of said socket when a lamp is inserted.

2. A hand lamp comprising a handle consisting of a single piece of resilient material and having a chamber in one end for a socket, a socket in said chamber, said socket having radially disposed depressions therein, said depressions having vertical side walls and inclined end walls, corresponding radially disposed lugs in said chamber and having vertical end walls and inclined end walls to cooperate with the walls of said depressions, a flange adjacent the outer end of said socket and having a vertical rear wall, a vertical shoulder adjacent the outer end of said chamber and cooperating with the flange on said socket to prevent longitudinal movement of said socket when a lamp is inserted, and means for clamping said lugs in said depressions.

In witness whereof, I have hereunto subscribed my name.

FRANCIS C. KOLLATH.