April 17, 1951 F. C. KOLLATH 2,549,487

LAMP GUARD AND HANDLE

Filed July 23, 1945

Fig. 1

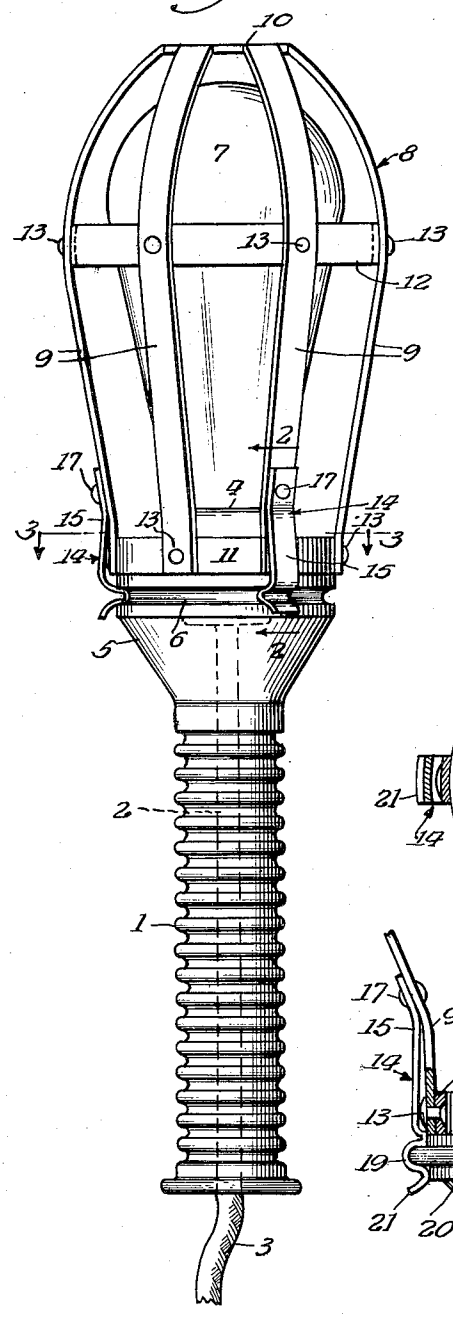


Fig. 2

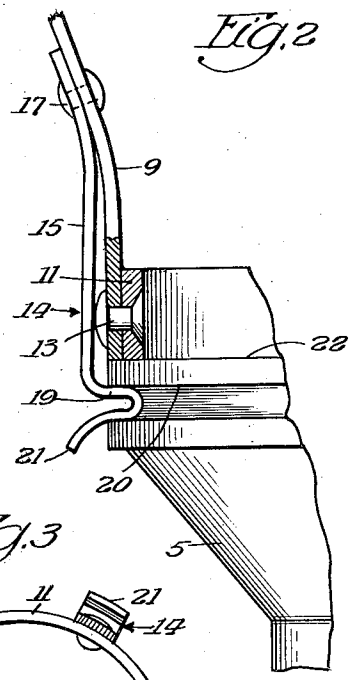


Fig. 3

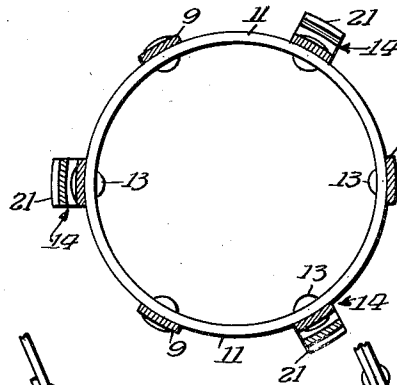
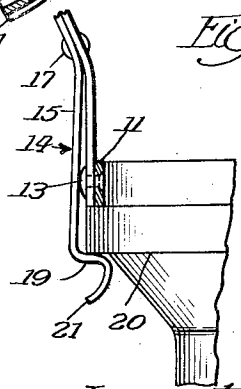


Fig. 4

Fig. 5



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LAMP GUARD AND HANDLE

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2 Claims. (Cl. 240—54)

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The present invention relates to a lamp guard and handle and particularly to means for securing a lamp guard to a handle, the present application being a continuation, in part, of my application Serial No. 505,319, filed October 7, 1943, Patent 2,394,697, February 12, 1946.

An important object of the present invention is the provision of new and improved means for detaching and attaching readily and quickly the lamp guard from the handle by the mere manipulation of co-operating elements so as to effect quick and easy replacement of a lamp bulb which is threadedly received in the screw socket in the handle and within the guard or cage.

Numerous other objects and advantages will be apparent throughout the progress of the following specification.

The accompanying drawing illustrates a selected embodiment of the invention and the views therein are as follows:

Fig. 1 is a side view of a lamp guard and handle arrangement embodying the invention;

Fig. 2 is a sectional view on the line 2—2 in Fig. 1;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1; and

Figs. 4 and 5 are modified structures embodying the invention.

The lamp guard and handle herein shown for the purpose of illustrating the invention, comprises a handle 1 having a longitudinal bore 2 which receives a cable 3 containing electrical conductors, the conductors being electrically connected to a lamp socket 4 carried at the upper enlarged end 5 of the handle. The socket 4 may be of the conventional screw thread formation to receive threadedly the threaded end 6 of an electric lamp 7. The lamp 7 is protected by a lamp guard 8 which is connected releasably to the enlarged part 5 of the handle 1.

The lamp guard 8, as shown, is made of fiber strips 9 extending longitudinally of the device, and these strips are connected at their tops to disks 10 and at their bottoms to a lower collar 11. A central intermediate or transverse member 12, also made of fiber, is fastened to the strips 9 to strengthen the guard and add rigidity thereto. Fasteners, such as rivets 13, secure the strips 9 to the parts or members 10, 11, and 12. The guard 8 may, of course, be made of metal, such as wire, instead of fiber as herein shown.

There have been many ways of securing lamp guards to handles, but all conventional methods require too much time and energy to remove the guard from the handle for the purpose of re-

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moving or placing a lamp. The average mechanic or other user of a lamp and guard handle is adverse to spending time and effort for the simple procedure of putting a new lamp in a socket, and therefore, the more simple and efficient the attachment is, the more suited it is for the purpose. The present invention provides an extremely simple and efficient device which is capable of being readily operated or manipulated so that the guard may be detached quickly from the handle. The means employed in the present invention for releasably or detachably connecting the guard to the handle comprises two or more integral spring members or clips 14 which are secured to the guard 8 as on the members 9 near the collar 11. A single clip 14 may be used in conjunction with some other type of fastener if desired.

In the form of the invention shown in Figures 1 and 2, each spring clip 14 has a straight body portion 15, the end of which is anchored to a member 9 as by fasteners, such as rivets 17. The clip has an inturned part 19, spaced from the anchored end of the clip to provide a locking ledge or catch to engage a latch keeping shoulder 20 formed on the handle. An outwardly extending or flaring part 21, also integral with the other parts of the clip, provides a member which can be operated manually to release the spring clip or catch from the shoulder 20. The shape of the part 21 also allows for application of the guard to the handle by merely pushing the guard downwardly, whereby the clips will be pressed outwardly, thereby expanding it so that it will readily pass over the end of the handle, whereupon the shoulder 20 will be home in the latch part 19 of the clip and the latching part 19 will extend into an annular groove 19c beneath the collar 20, so that the guard will be locked to the handle. The guard may be released merely by pressing the part 21 to disengage the locking or latching part 19 from the latching shoulder, thereby permitting easy and quick detachment of the guard to permit lamp replacement. The guard is re-applied in place merely by pushing the guard downwardly, whereupon the clips will give because of their resiliency and then snap back in home position upon the shoulder 20. The upper end of the handle is provided with an annular recessed part forming a seat 22 for receiving the collar 11 to facilitate easy application of the guard. The seat comprises an annular shoulder upon which the collar 11 rests. The guard therefor is locked in place upon the shoulder 22 of the handle by the locking parts 19 of the clips 14, in co-operation with the latch shoulder 20 beneath which

latter the part 19 of the clip engages, the shoulders 20 and 22 facing in opposite directions on the handle.

In the form of the invention shown in Figure 4, the enlarged part 5a of the handle is provided with an outwardly extending peripheral head or projection 20a, and the clip 14a has a substantially straight body portion 15a secured to the guard member 9, as at 17a. Adjacent the free end of the clip, there is provided a seat 19a, and the extremity of the clip, beyond the seat, is deflected outwardly, as at 21a, to form a means whereby the clip may be deflected, so as to permit the guard to be attached to the handle, and also engaged by the finger to detach the clip from the head or projection 20a.

In Figure 5, the spring 15' is provided with the portion 14', which is secured to the guard 9, and is substantially straight, the free end 19' of which is deflected inwardly to form a shoulder to engage under the shoulder 20', the free extremity 21' of the spring clip being shaped to form a finger-engaging portion, and which also acts as a means to deflect the clip so as to cause it to snap under the shoulder 20', to facilitate assembly.

The invention provides an extremely simple device for holding, securely but detachably, a lamp guard to its co-operating handle. The device is capable of very inexpensive manufacture and may be operated with the utmost ease and in a very short time.

Changes may be made in the form, construction and arrangement of the parts without departing from the spirit of the invention, and the right is hereby reserved to make all such changes as fairly fall within the scope of the appended claims.

The invention is hereby claimed as follows:

1. A lamp guard and handle comprising a handle member having a head formed to receive an electric lamp base, and a guard for a lamp in said base comprising a mounting collar and a plurality of spaced guard members secured on said collar, said head having an annular seat in position to receive and support said collar demountably on the seat, and latching means on said guard for attaching the guard to the head comprising means forming a latching shoulder on said head and a one-piece spring clip secured to one of said guard members against lateral movement with respect thereto, said clip having a latching portion adapted to snap over said latching shoulder and interlockingly engage the same as said collar is applied to said seat, said clip being maintained at all times in a fixed position to permit the clip to snap into engagement with said latching shoulder when said guard and handle are pressed together.

2. A lamp guard and handle comprising a handle member having a head formed to receive an electric lamp base, and a guard for a lamp in said base comprising a mounting collar and a plurality of spaced guard members secured on said collar, said head having an annular seat in position to receive and support said collar demountably on the seat, and latching means on said guard for attaching the guard to the head comprising an annular recess on said head and a one-piece spring clip secured to one of said guard members against lateral movement with respect thereto, said clip having a latching portion adapted to snap into said annular recess and interlockingly engage the same as said collar is applied to said seat, said clip being maintained at all times in a fixed position to permit the clip to snap into engagement with said annular recess when said guard and handle are pressed together.

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