Feb. 12, 1946. F. C. KOLLATH 2,394,697

LAMP GUARD AND HANDLE

Filed Oct. 7, 1943

Fig. 1

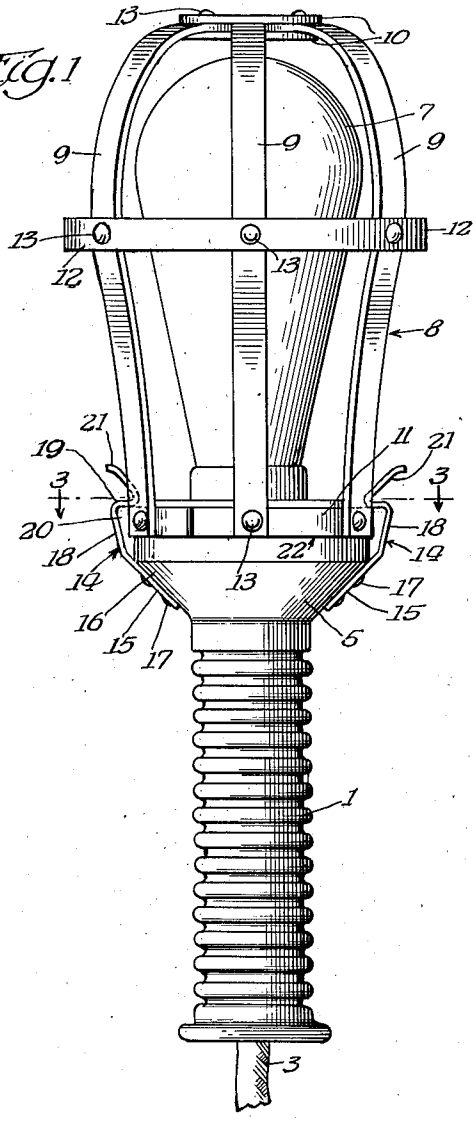


Fig. 2

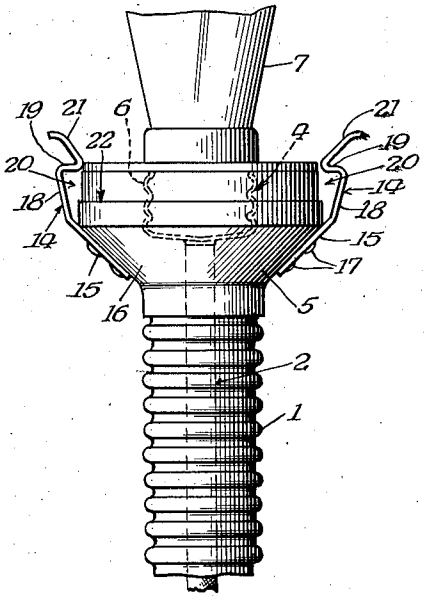
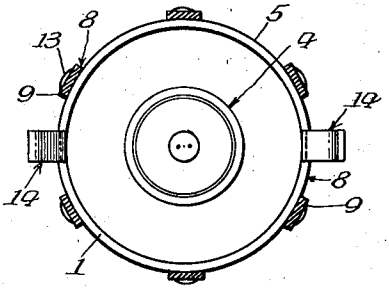


Fig. 3



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LAMP GUARD AND HANDLE

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1 Claim. (Cl. 240—54)

This invention relates to a lamp guard and handle and particularly to means for securing a lamp guard to a handle.

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 detail elevational view of a lamp guard and handle arrangement and embodying the invention;

Fig. 2 is a detail elevational view of the invention with the lamp guard removed; and

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

The particular 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 removing 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 enlarged part 5 of the handle 1. One clip 14 may be used in conjunction with some other type of fastener if desired.

Each spring clip 14 has a straight body portion 15 conforming to the inclined surface 16 on the lower side of the body enlargement 5 to which it is attached by fasteners, such as screws 17. A part 18 of the clip is integral with the straight part 15 but slopes somewhat inwardly, not being quite as inclined as the part 15. An inturned part 19, being integral with the parts 15 and 18, provides a locking ledge or catch and forms a recess 20 for the collar 11 of the lamp guard 8. 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 collar 11. The shape of the part 21 also allows for application of the guard to the handle by merely pushing the guard downwardly, whereby the collar will press the clips outwardly until in final position, whereupon the collar will be home in the recess 20, and the latch part 19 of the clip will be locked over the upper edge of the collar. The guard is released, therefore, merely by pressing the part 21 to disengage the locking or latching part 19 from the upper edge of the collar, 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. The upper end of the handle is provided with an annular recessed part to facilitate easy application of the guard to provide an annular shoulder 22 upon which the collar 11 rests. The guard therefore is locked in place between the shoulder 22 on the handle and the locking part 19 of the clips 14.

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 claim.

The invention is hereby claimed as follows:

A lamp guard and handle construction comprising a handle having an enlargement at its upper end to receive the base of an electric lamp, a lamp guard to protect a lamp in said base, said guard comprising a mounting collar and a plurality of spaced guard members secured on said collar, said enlargement forming a seat for receiving the collar, and a one-piece yieldable spring clip fastened to the enlargement on the handle, said clip being provided with an offset portion forming a recess for the collar and a latching portion adapted to enter the space between a pair of said guard members in position to engage the upper end of the collar and latch the collar detachably in the seat, said spring clip being attached to the handle only at its end remote from said latching portion to permit the clip to be flexed whereby said latching portion will be free to snap over the upper edge of the collar and latch the guard detachably to the handle when the guard is applied to the handle, the clip flexing to accomplish the latching action.

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