G. L. MINERS.

COMBINED REFLECTOR AND GUARD FOR ELECTRIC LAMPS.

APPLICATION FILED SEPT. 3, 1919.

1,334,710. Patented Mar. 23, 1920.

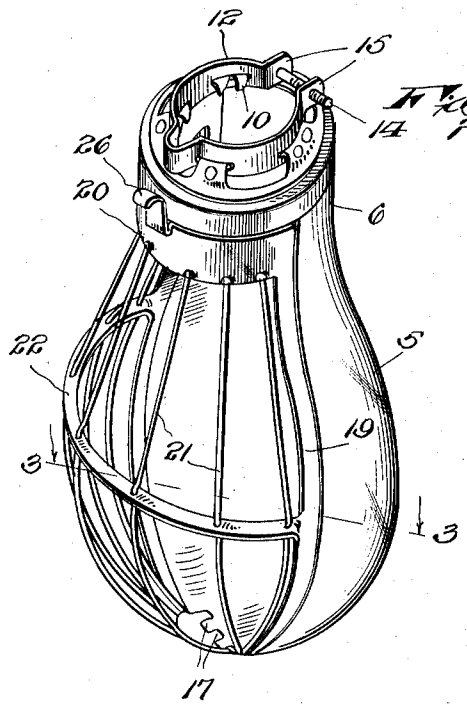


Fig. 1.

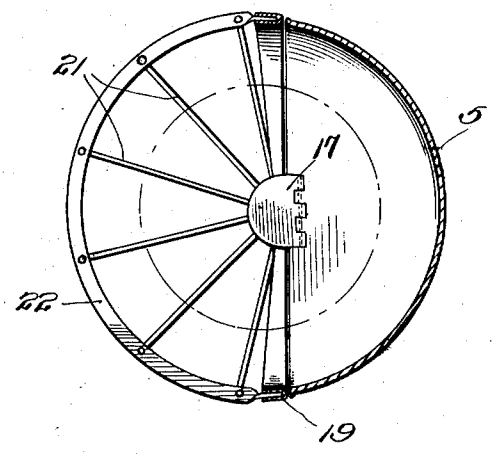


Fig. 3.

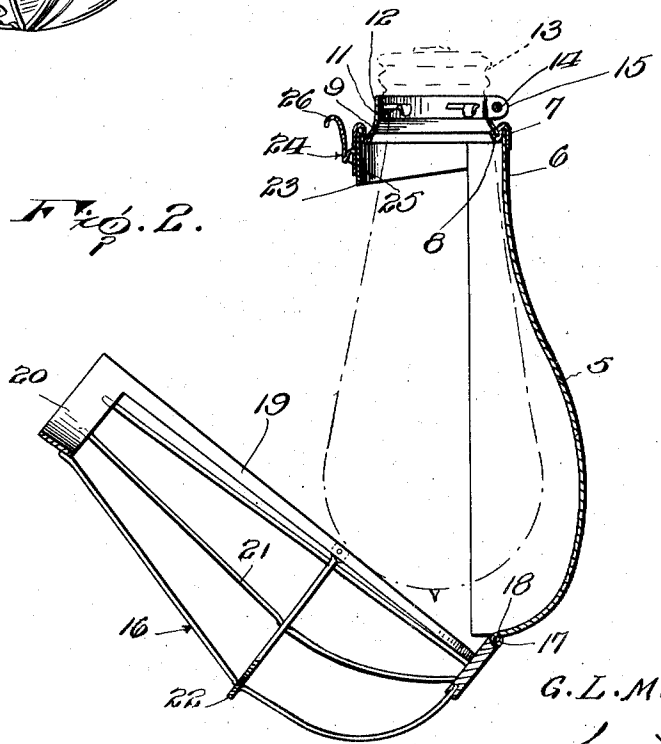


Fig. 2.

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UNITED STATES PATENT OFFICE.

GEORGE LEWIS MINERS, OF BIWABIK, MINNESOTA.

COMBINED REFLECTOR AND GUARD FOR ELECTRIC LAMPS.

1,334,710. Specification of Letters Patent. Patented Mar. 23, 1920.

Application filed September 3, 1919. Serial No. 321,329.

To all whom it may concern:

Be it known that I, GEORGE L. MINERS, a citizen of the United States, residing at Biwabik, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Combined Reflectors and Guards for Electric Lamps, of which the following is a specification.

My invention relates to a combined reflector and guard for electric light bulbs.

An important object of this invention is to provide a combined guard and reflector for electric lights having novel means to permit of the ready attachment to or removal of the electric light bulb from the socket associated with the device.

A further object of the invention is to provide a device of the class described which is simple, neat in appearance, and cheap to manufacture.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawing forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a perspective of a device embodying my invention,

Fig. 2 is a central longitudinal section through the same, the guard being shown open, and,

Fig. 3 is a transverse section taken on line 3—3 of Fig. 1.

In the drawing wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates a semi-bulbous shaped reflector having a reduced neck 6. A collar 7 is secured to the rear end portion of the neck 6 and extends about the exterior of the same. The collar 7 is provided with an interiorly arranged annular flange 8 which is U-shaped in cross section and is connected with an annular rim 9 having inwardly directed lugs 10. The inwardly directed lugs 10 extend into openings 11 of an attaching band 12 which is adapted to be arranged about a socket 13. The band 12 is secured about the socket 13 by a screw bolt 14 which is extended through ears 15 as is obvious from Figs. 1 and 2. The forward portion of the reflector 5 and the adjacent portion of a guard 16 are provided with alining hinge barrels 17 receiving a pivot pin 18. The guard 16 is semi-bulbous in shape and includes longitudinally curved sides 19 having their forward ends converging and their rear end portions connected to a transversely extending and longitudinally curved end piece 20. A plurality of spaced parallel wires 21 is provided in the guard as is a transversely extending semi-circular bracing rod 22.

The collar 7 carries a transversely extending longitudinally curved shoulder 23 which has its rear edge portion secured between the outer portion of the collar 7 and the flange 8. A spring catch 24 is soldered or otherwise secured to the shoulder 23 and is provided with a guard engaging portion 25 and a manipulating element 26.

In the practice of my invention, the guard is moved outwardly on its pivot as illustrated in Fig. 2 to permit of the insertion of an electric light bulb into the socket 13. The guard 16 is now closed and is engaged by the spring catch 24 which serves to lock same closed. In using the device in connection with an electric drop light employed in shops and other places, the reflector serves to shade the eyes and directs the light to the work, while the guard serves to protect the electric bulb. When it is desired to remove the bulb, the guard is opened, as illustrated in Fig. 2, and the bulb may be readily removed by unscrewing the same from the socket.

While I have shown and described the preferred embodiment of my invention, it is understood that such minor changes in arrangement and construction of parts may be made as will remain within the invention and the scope of what is claimed.

Having thus described my invention, what I claim is:

1. A device of the class described including a reflector, a guard pivoted at one end to the adjacent end of the reflector, a collar carried by the reflector and extending beyond one side of the same, a shoulder carried by the collar and adapted to limit the inward movement of the guard, and a spring catch associated with the shoulder for locking the guard closed.

2. A device of the class described including a semi-bulbous shaped reflector, a guard pivoted at its forward end to the forward end of the reflector, a collar secured to the opposite end of the reflector and extending beyond one side of the same, a curved shoulder carried by the collar and extending

transversely of the reflector and having its ends terminating adjacent the same and adapted to limit the movement of said guard, and a locking device associated with said shoulder for engaging said guard.

3. A device of the class described including a reflector, a guard pivoted at its forward end to the forward end of the reflector, a collar having an interiorly arranged annular flange engaging the rear end of the reflector, a transversely extending shoulder secured between said flange and said collar for forming a stop element for said guard, a locking member carried by said shoulders for engaging the rear end portion of said guard, and an attaching device associated with the said collar.

In testimony whereof I affix my signature.

GEORGE LEWIS MINERS. [L. S.]