C. VONDRASHEK.

ELECTRIC LAMP GUARD.

APPLICATION FILED FEB. 19, 1917.

1,241,172.

Patented Sept. 25, 1917.

FIG. 1.

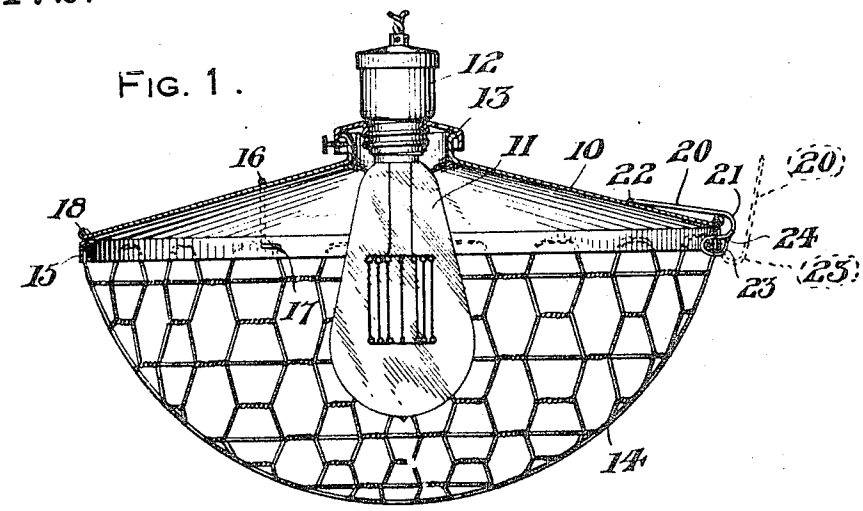


FIG. 2.

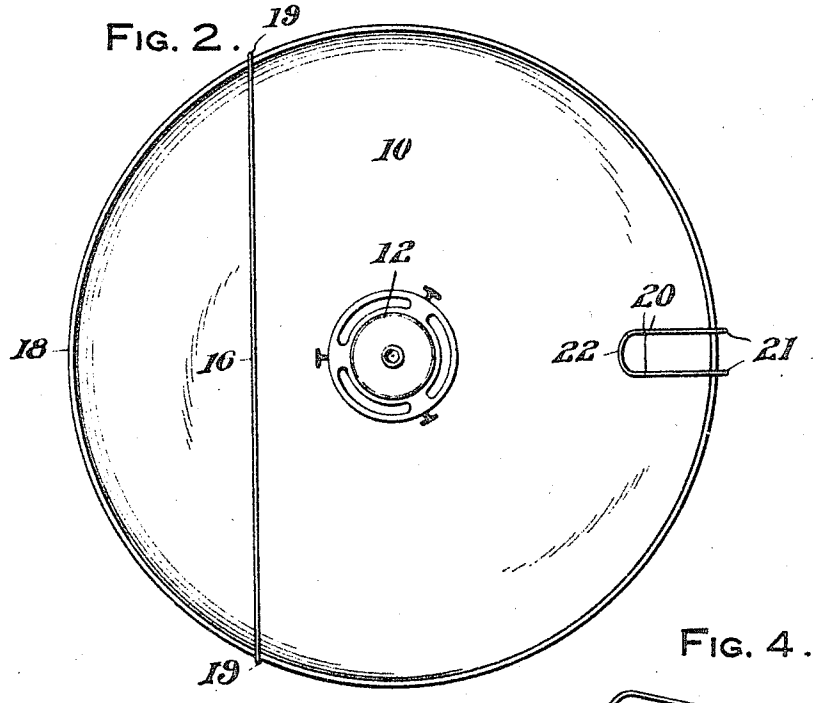


FIG. 3.

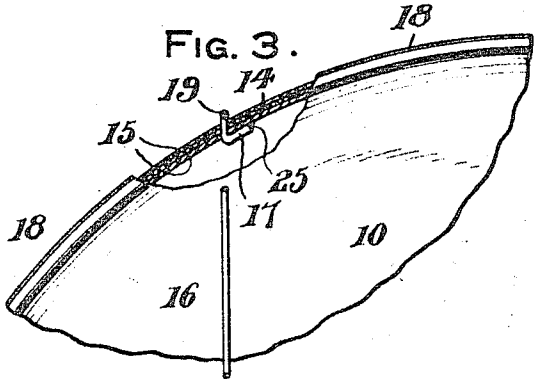
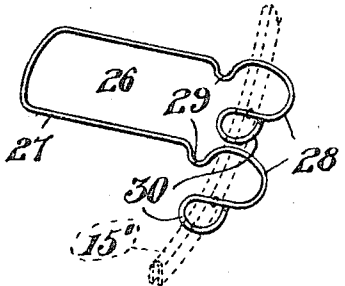


FIG. 4.



Inventor
Cyril Vondrashek
By Milton E. Lowry.
Attorney

UNITED STATES PATENT OFFICE.

CYRIL VONDRASHEK, OF LA CROSSE, WISCONSIN.

ELECTRIC-LAMP GUARD.

1,241,172. Specification of Letters Patent. Patented Sept. 25, 1917.

Application filed February 19, 1917. Serial No. 149,503.

To all whom it may concern:

Be it known that I, CYRIL VONDRASHEK, a citizen of the United States, residing at La Crosse, in the county of La Crosse and State of Wisconsin, have invented certain new and useful Improvements in Electric-Lamp Guards, of which the following is a specification.

This invention relates to certain new and useful improvements in electric lamp guards.

The primary object of the invention is the provision of a guard for an electric lamp especially serviceable as an attachment for the reflector of an incandescent lamp, the structure being such that the guard may be easily applied and removed therefrom and serving to prevent any injury to the lamp when in its operative position.

A further object of the device is the provision of a lamp guard that is easy and inexpensive to manufacture, serving to protect an inclosed lamp against breakage while offering only slight obstruction for the rays of light emanating therefrom, the device being adapted for instant attachment to the usual substantially flat reflectors commonly employed with incandescent lamps of either the wall, electrolier or drop-light variety.

The invention consists of the novel combination and arrangement of parts hereinafter described and claimed as well as illustrated in the accompanying drawing in which like reference characters designate corresponding parts throughout the several views and in which:—

Figure 1 is a diametrical sectional view through the device and a mounting reflector illustrated in connection with an incandescent electric lamp.

Fig. 2 is a top plan view of the reflector removed from the lamp with the device attached thereto.

Fig. 3 is an enlarged detail view of an edge section thereof partially broken away illustrating an end connection for one of the mounting members, and,

Fig. 4 is a perspective view of a different form of pivoted latch employed with the device, the adjacent portion of the mounting rim of the latter being illustrated by dotted lines.

Referring more in detail to the drawing, it will be understood that the present guard is applicable as an attachment for any form of lamp, being especially serviceable however, in connection with the so-called flat reflectors as at 10 herein illustrated, being in connection with an electric lamp of the usual form comprising an incandescent bulb 11 and a socket 12 and to which socket the said reflector is removably secured by means of a collar form of mount 13.

The guard of my invention consists of a foraminous wire basket 14 preferably formed of a metal screen or netting 15 having a mesh of suitable dimensions, the structure being substantially semi-circular in cross-section and provided with a rim or binding strip 15 secured at its circular edge and forming an open side for the device.

A mounting wire or bail 16 forming substantially a cord of the rim 15 is secured to the latter by projecting the opposite ends 17 of the bail through the said rim from points exterior thereof and clenching said ends inwardly of the rim in angular arrangement, as best illustrated in Fig. 3 of the drawing. The bail 16 is adapted for slipping over a peripheral portion of the reflector 10 with the rim 15 seated upon the lower face of the reflector adjacent its peripheral upturned bead 18.

The bail 16 has U-shaped terminal portions 19 for accommodating the shade bead 18, the portion of the said bail positioned therebetween being arcuate substantially conforming to the curvature of that portion of the reflector 10 which is engaged thereby when the guard is operatively positioned upon the reflector. A retaining latch 20 is pivotally carried by the rim 15 at a point thereon diametrically opposite the center of the bail 16. The said latch 20 is preferably constructed of resilient wire being of loop formation angularly bent as at 21 for engaging over the bead 18 of the reflector 10 when operatively positioned and at which times the closed end portion 22 of the latch flatly engages the upper face of the reflector. The latch 21 is formed of a single piece of wire having its ends bent in the form of eyes 23 which are pivoted through suitable perforations in the rim 15, the construction being substantially a swinging double hook adapted to be released from the reflector by pivotal movement outwardly as illustrated by dotted lines in Fig. 1 of the drawing. It will be understood that the connecting portions of the wire forming the eyes 23 may be soldered together as at 24 while the bail ends 17 may be soldered to the rim 15 as at 25. The said rim being here shown U-shaped in cross section and secured to the basket 14 by

crimping, may be of any desired form, it being noted however, that the loops 23 of the latch 20 as well as the end portions of the loop 16, all extend through the rim 15 and inclose an adjacent portion of the material of the basket 14, thereby assisting in retaining the rim thereon. A different form of latch 26 which is serviceable with the device is illustrated in Fig. 4 of the drawing, the same being constructed of a single piece of resilient wire bent in the form of a U-shaped portion 27 with its loops 28 and parallel laterally projecting V-shaped bends 29 while eyes 30 are formed in the free ends of the wire in which the latter is constructed for hinged attachment to a lamp guard rim 15'. The latch 26 is operable in a manner identical to the latch 20 heretofore described, the bends 29 forming engaging lugs for overlying the reflector bead 18 in a manner which will be at once apparent from an inspection of the drawing.

In applying the guard to the reflector 10, the same is positioned with the guard rim 15 flatly engaging the same therebeneath and with the bail 16 overlying the reflector as before stated while the lamp globe 11 will project into the guard being inclosed by the guard and reflector, the latch 20 being sprung upwardly over the reflector bead 18 in resilient engagement therewith and with the upper surface of the reflector. It will be apparent that this form of guard may be readily attached to and detached from the reflector 10 while the glass globe 11 will be protected by the inclosing basket member 14. While the present form of the device is believed to be preferable, minor changes may be made if desired without departing from the spirit and scope of the invention as claimed.

What I claim as new is:—

1. A lamp guard comprising a wire mesh basket substantially semi-circular in cross-section, a rim U-shaped in cross-section inclosingly overlying the edge of the basket, a bail positioned in cordal relations with respect to the rim having outwardly projecting substantially U-shaped end portions and an arcuate portion therebetween, the terminal portions of the bail extending through the sides of the rim and the adjacent portions of the basket positioned therebetween, securing means between the ends of the bail and the inner face of the rim, and a resilient retaining latch hinged to the rim at a point thereon diametrically opposite from the center of the bail.

2. A lamp guard comprising a wire mesh basket substantially semi-circular in cross-section, a rim U-shaped in cross-section inclosingly overlying the edge of the basket, a bail positioned in cordal relations with respect to the rim having outwardly projecting substantially U-shaped end portions and an arcuate portion therebetween, the terminal portions of the bail extending through the sides of the rim and the adjacent portions of the basket positioned therebetween, securing means between the ends of the bail and the inner face of the rim, and a retaining latch formed of a single piece of bent resilient wire of hook formation having terminal eye portions projecting through the rim and the adjacent portion of the basket and pivotally carried thereby, the eye portions serving to retain the edge of the wire mesh in position in the rim.

3. A lamp guard comprising a foraminous basket, a circular rim secured in binding engagement with the edge thereof, an arcuate bail secured between opposite points of the rim in the plane of a cord of said rim and a resilient retaining latch pivoted to the rim at a point diametrically opposite the line of center of said bail.

4. A lamp guard attachment for circular reflectors comprising a wire mesh basket, a rim carried by the basket adapted for flat engagement beneath the reflector when operatively positioned, a bail carried by the rim adapted for overlying the reflector in contact with the upper face thereof, and a retaining latch pivotally carried by the rim.

5. A lamp guard attachment for circular reflectors comprising a wire mesh basket, a rim carried by the basket adapted for flat engagement beneath the reflector when operatively positioned, a bail carried by the rim adapted for overlying the reflector in contact with the upper face thereof, a resilient latch of hook form pivoted to said rim at a point diametrically opposite the center of said bail adapted for overlying the marginal bead of the reflector with the end of the latch in flat engagement with the upper face of the reflector when in its operative position.

6. In a lamp protector, an inclosing member, a retaining latch pivotally mounted thereon and formed of a single piece of wire bent into U-shaped formation, the ends of the wire being bent upon themselves to provide looped portions, with the terminal ends bent to provide eyes adapted for pivotally mounting the device, the main shanks of the wire between the bight thereof and the portions bent upon themselves, being further bent to provide U-shaped bends forming lugs adapted for overlying the bead portion of a reflector when operatively positioned thereon, and in substantially vertical alinement with respect to the pivotal eyes.

In testimony whereof I affix my signature.

CYRIL VONDRASHEK.