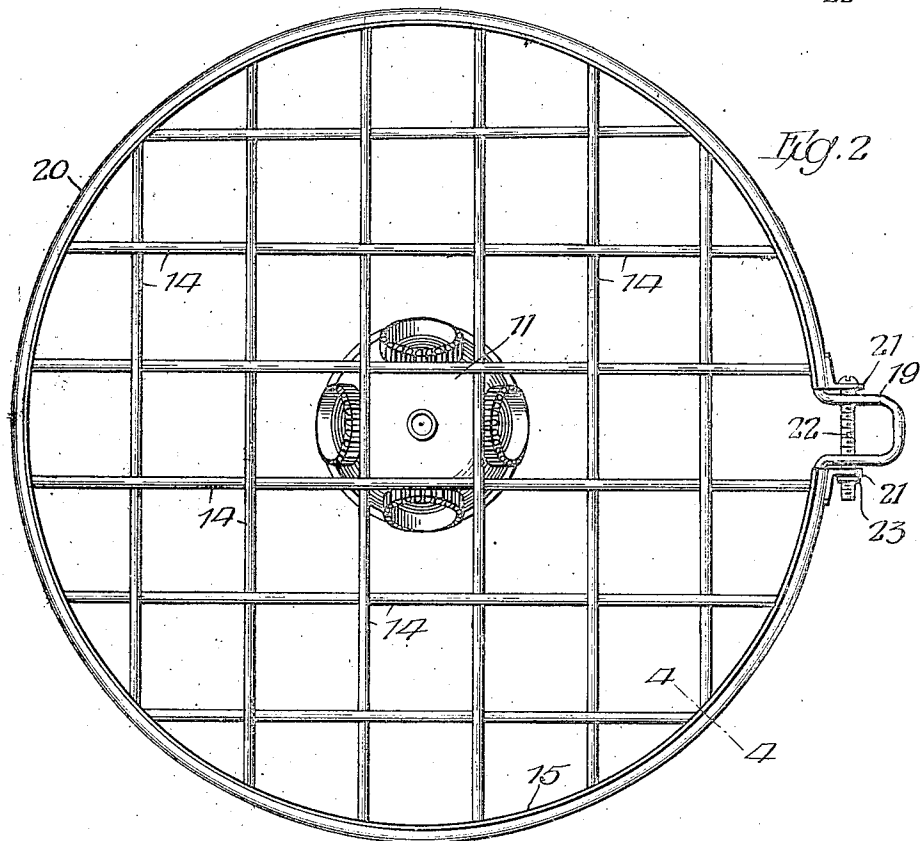
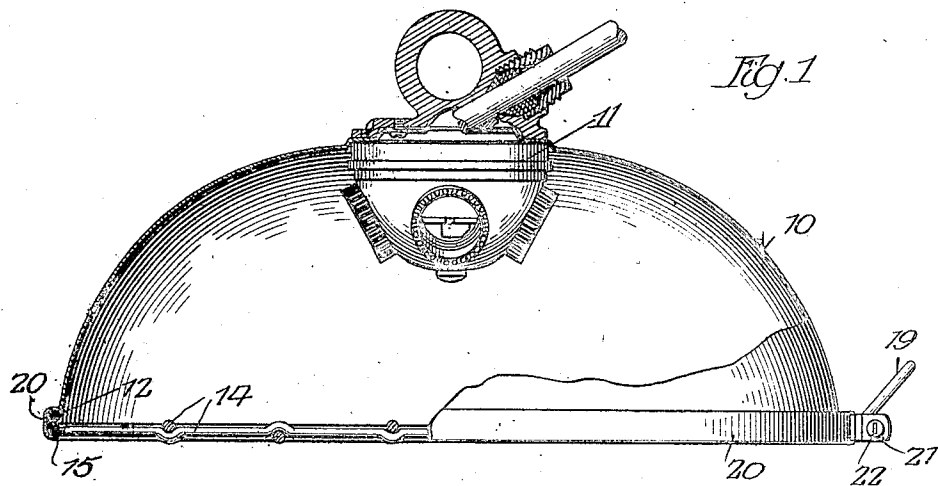


Feb. 6, 1923.

R. B. BENJAMIN.  
LAMP GUARD.  
FILED MAR. 10, 1919.

1,444,054

2 SHEETS-SHEET 1



*Inventor*  
Reuben B. Benjamin  
*By* Jones, Addington Ames & Leibold  
Attys

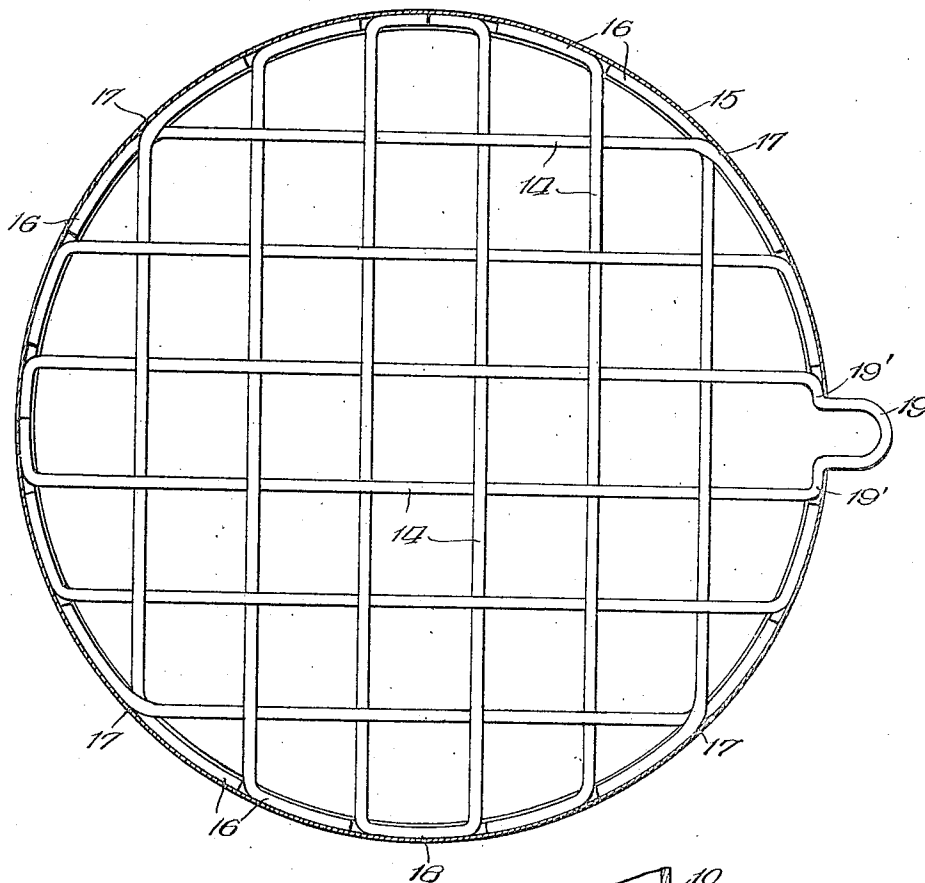
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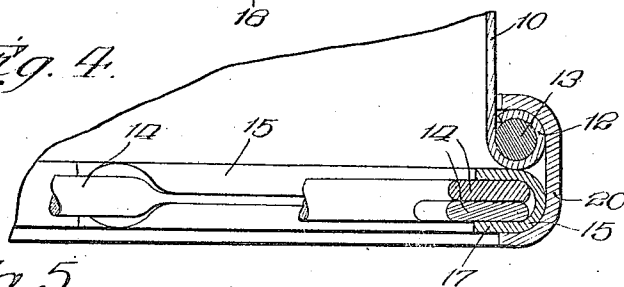
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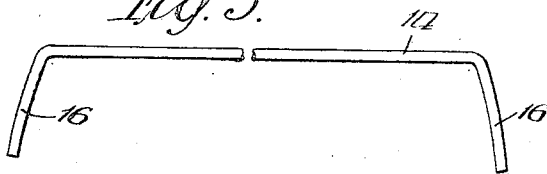
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



*Inventor*  
R. B. Benjamin  
*By* Jones, Adlington, & Schibbold  
*Attys*

## UNITED STATES PATENT OFFICE.

REUBEN B. BENJAMIN, OF CHICAGO, ILLINOIS, ASSIGNOR TO BENJAMIN ELECTRIC MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## LAMP GUARD.

Application filed March 10, 1919. Serial No. 231,838.

*To all whom it may concern:*

Be it known that I, REUBEN B. BENJAMIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Lamp Guards, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to improvements in lamp guards and has for its object the production of a device of this character which will be of durable and mechanical construction and one which may be readily and expeditiously attached to a lamp reflector or shade and as readily removed therefrom when desired.

A further object is the production of a guard of the character mentioned in which will be afforded means for connection with the lamp of an adjusting cord or rope whereby, when the lamp is in use, the position thereof may be readily adjusted. Other objects will appear hereinafter.

With these objects in view, the invention consists of the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings, forming a part of this specification and in which—

Fig. 1 is a view partly in elevation and partly in central section, of a lamp equipped with a guard embodying the invention;

Fig. 2 is a bottom plan view of the construction seen in Fig. 1;

Fig. 3 is a central section through the guard, the clamping ring used to connect the guard with the lamp reflector being omitted;

Fig. 4 is an enlarged detail section taken on substantially line 4—4 of Fig. 2, and

Fig. 5 is a plan view of one of the bars of the guard attached.

The preferred form of construction, as illustrated in the drawings, is applied to a conventional form of lamp, that shown being a lamp especially designed for use as a cargo light; this light being intended for

heavy outdoor service particularly around wharfs, dry docks, in steamship holds and in building and general construction work.

This lamp comprises a reflector or shade 10 in which is centrally mounted a conventional form of cluster body 11, the latter, in the use of the lamp, being adapted to accommodate a plurality or cluster of lights. The outer rim 12 of the reflector 10 is of beaded construction, the external bead constituting said rim being reinforced by an internal annular wire 13, as clearly seen in Fig. 4.

To the rim 12 of the reflector is applied a guard, the purpose of which is to protect from injury the lights or lamp bulbs arranged in the reflector and to prevent theft thereof. This guard is formed of a plurality of spaced crossed heavy wires or bars 14; there being two sets of said bars arranged at right angles to each other and interwoven to form a reticulate or lattice work body. The ends of said bars are embraced by a split channel-formed holder ring 15, the channel of said ring being of just sufficient width to snugly receive the ends of said bars. Each bar at each end is formed with a curved peripherally extending portion 16 which rests in the holder ring 15, the curvature of said portion 16 being such as to conform with the curvature of said holder ring. The said portions 16 are of a length such that the same entirely fill the spaces in the holder ring intermediate the adjusting bars, thus adapting said portions 16 to serve as spacers which hold the bars in fixed spaced relation with each other.

The holder ring, as clearly seen in the left hand portion of Figure 4, is bent to embrace the portion 16, thus securely holding the same and lending firmness and rigidity to the structure.

At the points 17, seen in Figure 3, certain of the bars 14 overlap each other, the overlapping portions of said bars being flattened and reduced in thickness, as seen in Fig. 4, so that the combined thickness of the overlapping portions will be substantially the same as that of a single bar. This arrangement renders it possible to employ a holder ring having a channel of uniform width throughout.

The two center bars of one series of said bars are for economy, formed of a single piece of material, the peripherally extending portions at one end being united as at 18. Correspondingly, the two center bars of the other series thereof are formed of a single piece of material, the connecting portion 19 between said bars being extended laterally through the gap between the ends of the holder ring to constitute a loop to which a cord or rope may be attached, in the use of the lamp, in order to adjust the same to throw a light at any angle or in any direction desired.

The provision of the loop 19 is of considerable advantage in effecting the adjustment mentioned and the arrangement whereby the same is formed integrally with certain of the guard bars, is one which is both economical and durable. To prevent the bars 14, to which the loop 19 is connected from being pulled out through pressure exerted on said loop, shoulders 19' are formed at the ends of said loop which engage against the holder ring as clearly seen in Figure 3.

With the construction set forth it will be seen that a guard is produced which is made up of a plurality of separate substantially U-shaped bars so arranged as to be readily and easily assembled and secured in the holder ring, the resulting construction being one of simplicity while at the same time one possessing great strength and rigidity. The firmness and rigidity of the structure may be further increased by uniting the guard bars through electro welding at as many points of their crossing or intersection as may be desired.

The guard thus constructed is applied to the reflector or shade of the lamp by means of a split clamping ring 20 having an internal channel adapted to embrace the guard and the peripheral portion of the guard and the rim 12 of the reflector or shade. The guard is of substantially the same diameter as said rim, and when embraced by the clamping ring 20 is held in secure engagement with the outer edge of said rim.

The clamping ring is provided at its ends with outwardly projecting ears 21 which are adjustably connected together by means of a screw 22 and a cooperating nut 23. With this arrangement it is of course apparent that the clamping ring may be extended or contracted, as may be desired, to apply or detach the same. The ends of the clamping ring are spaced apart sufficiently to accommodate the loop 19 which passes between the same as seen in Figure 2.

In this specification I have employed the terms "reflector" and "shade" interchangeably and to mean any housing or inclosing member in which a light is mounted, since I do not wish to limit myself in this respect inasmuch as the guard may be applied to

any form of lamp, the enclosing body of the housing of which is constructed to accommodate the same.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is—

1. A lamp guard comprising a plurality of spaced substantially U-shaped crossed bars; and a holder for said bars.

2. A lamp guard comprising a plurality of separate spaced crossed bars; and a holder embracing and enclosing the ends of said bars.

3. A lamp guard comprising a plurality of spaced crossed bars each comprising a central portion and angularly projecting end portions; a holder for said bars; said ends of said bars serving to space the same apart.

4. A lamp guard comprising a plurality of spaced crossed bars; a holder for said bars; and peripherally extending means at the ends of said bars serving to space the same apart.

5. A lamp guard comprising a plurality of spaced crossed bars; an annular holder embracing the ends of said bars; and curved portions at the ends of said bars engaging said holder and filling the space between adjacent bars.

6. A lamp guard comprising a plurality of spaced crosser bars; an annular tubular holder embracing the ends of said bars; and portions on the ends of said bars curved to conform to the curvature of said holder and embraced thereby, said curved portions filling the spaces between the ends of adjacent bars.

7. A lamp guard comprising a plurality of separate spaced crossed bars; and a holder embracing the ends of said bars; certain of said bars overlapping each other at the points of their registration with said holder, the overlapping portions of said bars being reduced in thickness.

8. A lamp guard comprising a plurality of spaced crossed bars; a holder for said bars; and a loop projecting laterally from said holder and formed integrally with the adjacent ends of certain of said bars.

9. The combination with a lamp reflector having an outer rim, of a guard resting against said rim, comprising a plurality of spaced crossed bars; a split clamping ring embracing said rim and the peripheral portion of said guard; and a laterally projecting loop formed integrally with certain of said bars and passing through the space between the ends of said ring.

10. The combination with a lamp reflector having an outer rim; of a guard resting against said rim; a split clamping ring embracing said rim and the peripheral portion of said guard; and a laterally projecting loop on said guard passing through the space between the ends of said ring.

11. The combination of a lamp reflector; for said bars; angularly projecting means 10  
a plurality of spaced crossed bars; a holder at the ends of said bars resting in said holder  
for said bars; angularly projecting means and serving to space said bars apart; and  
at the ends of said bars resting in said holder means embracing said holder and the outer  
5 and serving to space said bars apart; and edge portion of said reflector for securing  
means for securing said holder to said re- said holder to said reflector. 15  
flector.

In witness whereof, I have hereunto sub-  
scribed my name.

12. The combination of a lamp reflector;  
a plurality of spaced crossed bars; a holder

REUBEN B. BENJAMIN.