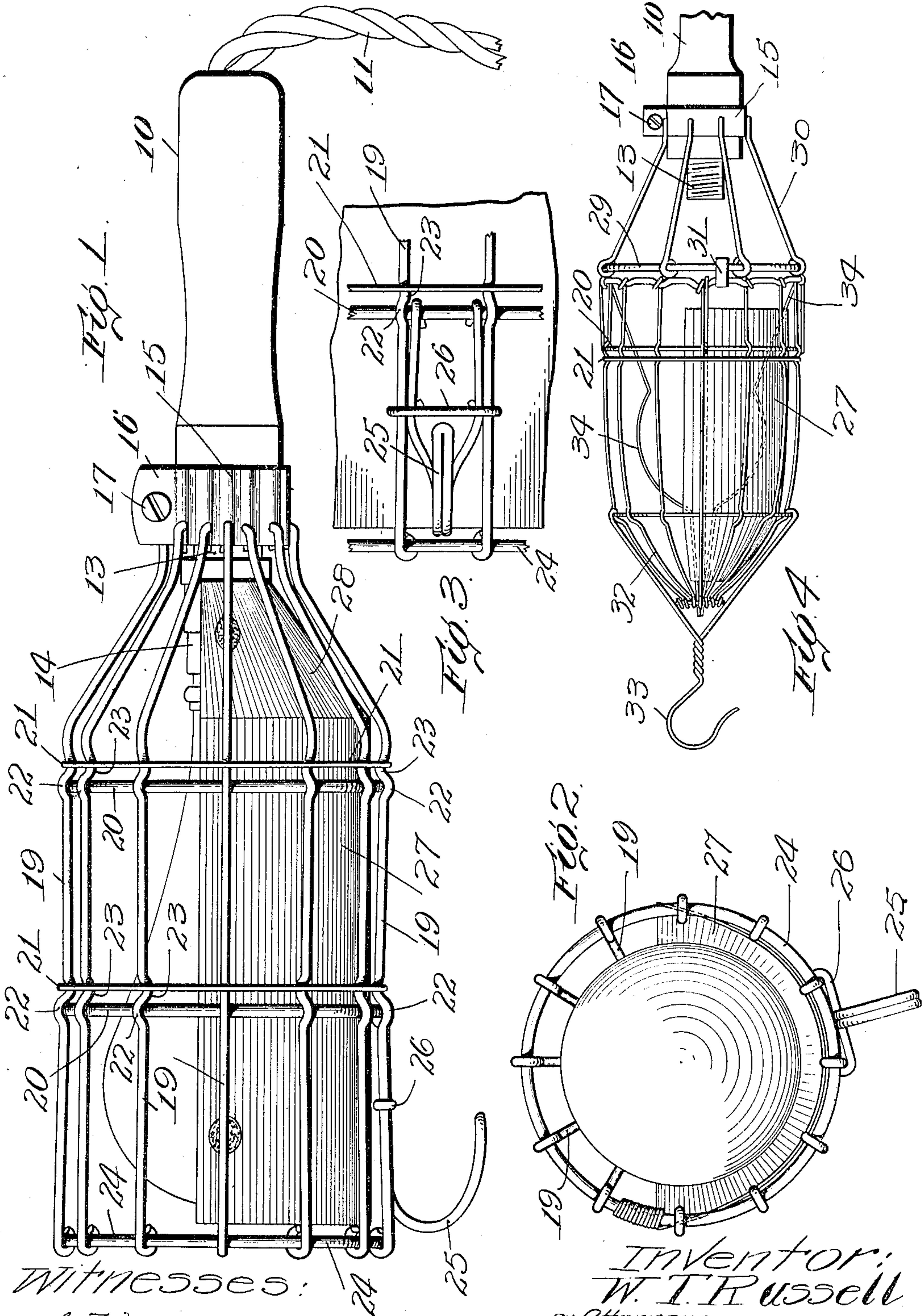


W. T. RUSSELL.
PORTABLE LAMP GUARD.
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943,792.

Patented Dec. 21, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM T. RUSSELL, OF WELLESLEY, MASSACHUSETTS.

PORTABLE LAMP-GUARD.

943,792.

Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed October 7, 1907. Serial No. 396,176.

To all whom it may concern:

Be it known that I, WILLIAM T. RUSSELL, a citizen of the United States, residing at Wellesley, in the county of Norfolk and State of Massachusetts, have invented a new and useful Portable Lamp-Guard, of which the following is a specification.

This invention relates to a portable hand-guard for electric lamps.

The principal objects of the invention are to provide a device of this kind, having a handle through which the conducting wires may pass and means for supporting an incandescent lamp, with a guard of a convenient and simple form, and with means for shading the eyes of the user and reflecting the light in the desired direction; to provide for conveniently attaching the guard to the handle so that it may be removable therefrom; to provide a simple and efficient manner of mounting the reflector on the guard, and to so construct the device as to increase its utility and simplicity as will appear hereinafter.

Reference is to be had to the accompanying drawings which illustrate two forms in which the invention may be embodied, and in which—

Figure 1 is a side elevation of a portable lamp guard of one form. Fig. 2 is an end view of the same. Fig. 3 is a side elevation of a portion thereof, and Fig. 4 is a side elevation of another form of the invention.

In the form shown in Figs. 1, 2 and 3 a hollow handle 10 is used through which the conducting wires 11 for the lamp may pass. The lamp may be of any desired construction, and the handle is provided with a screw 13 on which a socket 14 for the lamp may be removably mounted. At the end of the handle adjacent to the socket is a clamping ring 15 having ears 16 thereon through which passes a bolt 17 or any other convenient fastening device. This collar supports the guard frame which in this form consists of a series of longitudinal wires 19 secured at their ends to the clamping ring 15 and extending outwardly therefrom in such a manner as to form a conical end and a substantially cylindrical body for the guard frame. These longitudinal wires are held together by two sets of rings 20 and 21. The spreading rings 20 are comparatively large in cross section and are located inside the longitudinal wires. They may be soldered to them if desired. The rings 21 are smaller,

being merely tying wires which extend around the outside of the frame to hold the longitudinal wires against the rings 20. In order to accommodate these two sets of rings the longitudinal wires are provided with offsets 22 and 23. The offsets 22 extend outwardly to receive the rings 20 and the offsets 23 extend inwardly to receive the rings 21.

At the end the guard is provided with an end ring 24 to which the ends of the longitudinal wires are secured. This forms an open end which serves as a base on which the guard may be set on a level surface, and also serves as an opening through which the lamp may be inserted in or removed from the frame without moving any of the parts thereof. The guard is preferably provided with a hook 25 by means of which it may be suspended. This hook is shown in the form of a single piece of wire having two legs engaging one of the rings 20 and held in position by a clamping wire 26. It is located near the end of the frame and extends outwardly to one side thereof so that it does not interfere with the setting of the guard on its end as indicated above.

The device in the form described above can be used in a general way for the purpose intended, but in order to protect the user's eyes from the strong light of the lamp, and to direct the rays of the light toward the object being inspected, a reflector or shade 27 is placed on the device. This reflector or shade is preferably mounted inside the frame of the guard and may be secured to the guard itself by soldering it to the longitudinal wires as indicated. The reflector or shade is made in two parts; a cylindrical part which extends throughout the main part of the length of the body of the frame and covers about half the circumference thereof, and a conical part 28 which covers the inside of the conical end of the frame which has been described.

It will be seen that the whole frame of the guard including the shade can be readily removed from the handle; that the lamp can be applied and removed without interfering with the position of the frame or any part thereof; that the whole device can be manipulated in any desired way so as to throw the light where it is wanted and protect the eyes of the user therefrom; and that it may be set up on end so that both hands of the user can be employed for other purposes. This is especially desirable in its use

on automobiles and the like. Furthermore it can be hung up by means of the hook for a similar purpose.

In the form shown in Fig. 4, the same 5 general principles will be observed, but here the first ring 29 of the frame of the guard constituting the end of the conical part 30 thereof is used as a support for the main part of the frame which is removable there- 10 from and is connected with this ring 29 by means of clips 31 or the like, and in this case a second conical end 32 is provided in place of the open end of the guard described above.

It will be seen that when the guard is 15 placed in position with the lamp inside, one of the clips has to be detached in order that the main body of the guard may be swung away from the conical end before the lamp may be removed. In this case the reflector 20 or shade 27 is made in the same form as before, but its conical end is located at the outer end of the frame instead of at the inner end, and serves the same purposes. In this case also a hook 33 is employed, but it 25 extends directly out from the end of the frame. This guard is also preferably provided with spring wires 34 inside the same to assist in holding the lamp in position.

While I have illustrated and described 30 two forms in which the invention conveniently may be embodied, I am aware that many other modifications may be made without departing from the scope of the invention as expressed in the claims. Therefore, 35 I do not wish to be limited to the particular forms shown, but

What I do claim is:—

1. As an article of manufacture, a port- 40 able lamp-guard comprising a handle, a wire frame mounted at one end thereon having an open ring at the end opposite the handle, continuous longitudinal wires extending from said end ring to the handle, and means

for holding said longitudinal wires in posi- 45 tion, a shade or reflector mounted on said frame, and a hook projecting from said frame near said end ring but located entirely between the end ring and handle and extending outwardly and then toward the handle therefrom, whereby the guard may 50 be hung by means of said hook or placed on end resting on said end ring.

2. As an article of manufacture, a port- 55 able lamp guard comprising a handle having means on the end thereof for supporting a lamp, a metal frame removably clamped on the end of the handle in position to surround the lamp, and having an open end ring, a main cylindrical portion, a conical portion at the handle end thereof, and a reverse hook on 60 the end of the frame at one side thereof near said end ring and located entirely between said end ring and the handle, whereby the guard may be set in upright position on the end ring as a base or hung in the opposite 65 position from said hook.

3. As an article of manufacture, a port- 70 able lamp guard comprising a handle having means on the end thereof for supporting a lamp, a metal frame on the end of the handle in position to surround the lamp, and hav- 75 ing an open end ring, and a reverse hook on the end of the frame at one side thereof near said end ring and located entirely between said end ring and the handle, whereby the guard may be set in upright position on the end ring as a base or hung in the opposite position from said hook.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing 80 witnesses.

WILLIAM T. RUSSELL.

Witnesses:

A. E. FAY,
E. M. ALLEN.