F. DIETZ.

TUBULAR LANTERN.

APPLICATION FILED DEC. 26, 1911.

1,067,509.

Patented July 15, 1913.

2 SHEETS—SHEET 1.

Fig. 1.

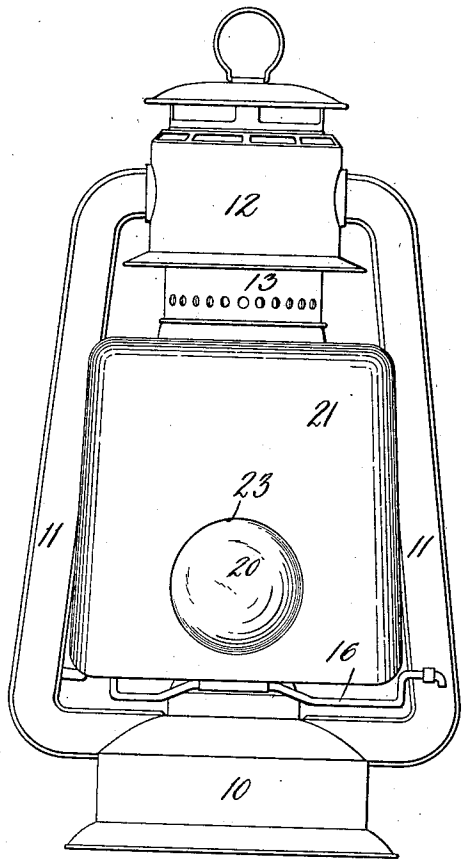


Fig. 2.

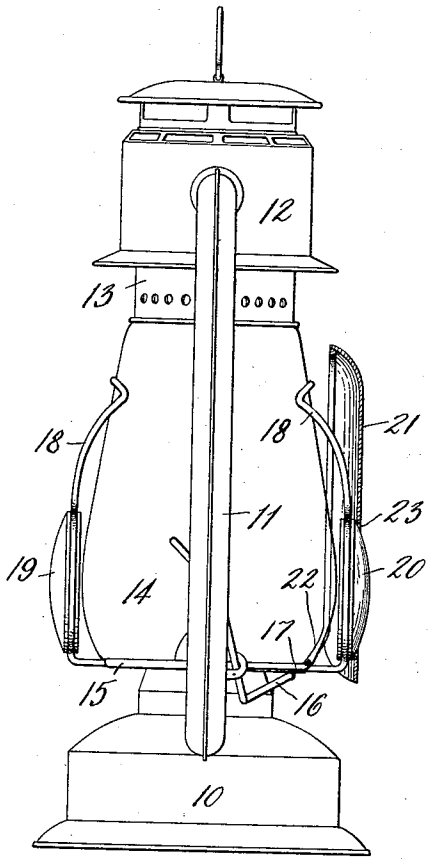
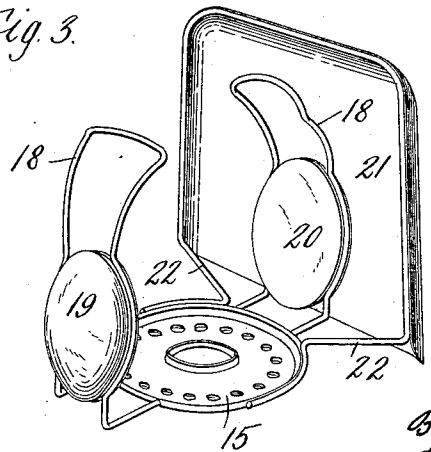


Fig. 3.



Witnesses.
A. G. Dimond.
A. Baker Hagen

Inventor.
Frederick Dietz,
By Wilhelm, Parker & Hard,
Attorneys

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2 SHEETS—SHEET 2.

Fig. 4

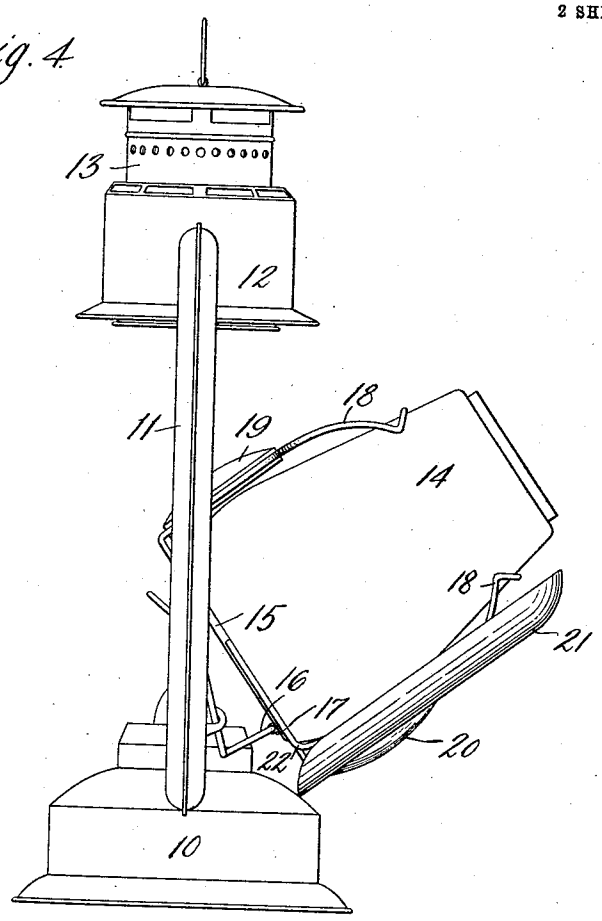
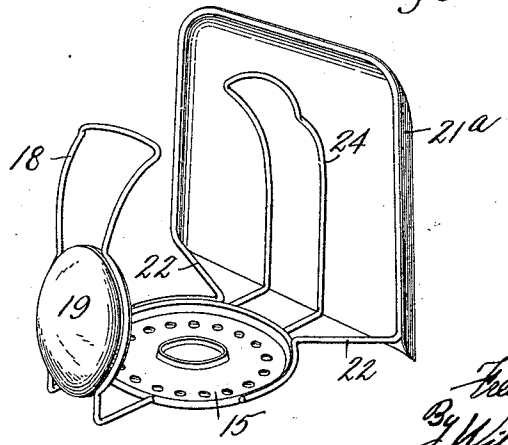


Fig. 5



Witnesses.
A. G. Dumont.
A. Borkenhagen

Inventor.
Frederick Dietz,
By Wilhelm, Parker & Hard,
Attorneys.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FREDERICK DIETZ, OF NEW YORK, N. Y.

TUBULAR LANTERN.

1,067,509. Specification of Letters Patent. Patented July 15, 1913.

Application filed December 26, 1911. Serial No. 667,589.

To all whom it may concern:

Be it known that I, FREDERICK DIETZ, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Improvement in Tubular Lanterns, of which the following is a specification.

This invention relates to that class of tubular lanterns which are provided with a plate upon which the globe rests, which plate may be hinged to the tubular lantern frame or otherwise supported in any suitable or well known manner.

The object of the invention is to provide the lantern in a simple, convenient and inexpensive manner with an opaque shield which is arranged in rear of the globe and prevents the white light from being emitted rearwardly where it would be objectionable by interfering with the vision of the user or otherwise, although the shield may be provided with an opening through which a colored lens can be seen from the rear.

In the accompanying drawings: Figure 1 is a rear elevation of a tubular lantern provided with this improvement. Fig. 2 is a side elevation with the light shield in section. Fig. 3 is a detached perspective view of the globe plate and the guards, front and rear lenses and light shield mounted on the same. Fig. 4 is a side elevation of the lantern with the globe plate tilted back. Fig. 5 is a detached perspective view of a globe plate provided with a light shield, guards and a front lens only, the rear lens being omitted.

Like reference characters refer to like parts in the several figures.

Referring to Figs. 1–4, which represent this improvement applied to a tubular lantern of the well known cold blast type, 10 represents the oil pot, 11 the side tubes, 12 the upper air chamber, 13 the vertically movable globe holder or chimney, 14 the globe, 15 the globe plate and 16 the transverse crank shaft which is journaled on the lantern frame and to which the plate is connected by a hinge 17. All of these parts may be of any well known construction and arrangement.

The globe plate is provided on the front and rear sides of the lantern with wire guards 18 by means of which the globe is detachably held on the plate. These guards are each so constructed as to clasp a circular lens or bull's eye 19, 20, between their opposing members, the front lens 19 being white and the rear lens 20 being colored, usually red.

21 represents the opaque light shield which is supported on the globe plate by arms 22 extending rearwardly from the plate. The light shield is arranged in rear of the rear lens and is provided with an opening 23 through which the rear lens is visible from the rear, while the shield intercepts the white light which would otherwise pass rearwardly from the flame and the globe. The shield prevents this white light from disturbing the vision of the user or from rendering the lantern visible from the rear. The front face of the light shield is preferably finished as a reflector.

The light shield is supported directly by the globe plate and only indirectly by the lantern frame. This renders the construction very simple and compact and permits of a close fit of the light shield around the rear lens as no relative displacement of the lens and shield is possible. The light shield being attached to the globe plate turns with the plate when the latter is tilted back, as represented in Fig. 4, or is otherwise moved out of its normal position, so that the relative position of the shield and the lenses is always maintained.

A lantern provided with this improvement is particularly desirable for use on vehicles where it shows no white light rearwardly and exhibits only the red bull's eye in a rearward direction, if such a rear lens be used. When no rear lens is required the construction may be as represented in Fig. 5, in which the rear guard 24 is not provided with a lens and the light shield 21^a is constructed without a lens opening.

I claim as my invention:

1. In a tubular lantern, the combination with a globe plate provided on its front and rear sides with globe holding guards, of an upright light shield arranged in rear of said rear guard, and supporting means extending from said plate rearwardly to said shield, substantially as set forth.

2. In a tubular lantern, the combination with a lantern frame and a globe plate pivotally connected therewith and provided on its front and rear sides with globe holding guards, of a light shield arranged in rear of said rear guard, and supporting means

connecting said shield with said plate, substantially as set forth.

3. In a tubular lantern, the combination with a globe plate and a lens supported on the same, of a light shield supported on said plate and provided with an opening through which said lens is visible, substantially as set forth.

4. In a tubular lantern, the combination with a globe plate provided with a guard and a lens supported by said guard, of a light shield supported on said plate and provided with an opening through which said lens is visible, substantially as set forth.

5. In a tubular lantern, the combination with a globe plate provided with wire guards and front and rear lenses supported by said guards, of a light shield arranged in rear of the rear guard and provided with an opening through which said rear lens is visible, substantially as set forth.

6. In a tubular lantern, the combination with a globe plate provided with a spring wire guard and a lens gripped between the arms of said guard, of a light shield arranged in rear of said guard, said light shield being supported by said globe plate independently of said guard and being provided with an opening through which said rear lens is visible, substantially as set forth.

Witness my hand in the presence of two subscribing witnesses.

FREDERICK DIETZ.

Witnesses:
FRED H. TWOMBLY,
HOWARD L. FLETCHER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."