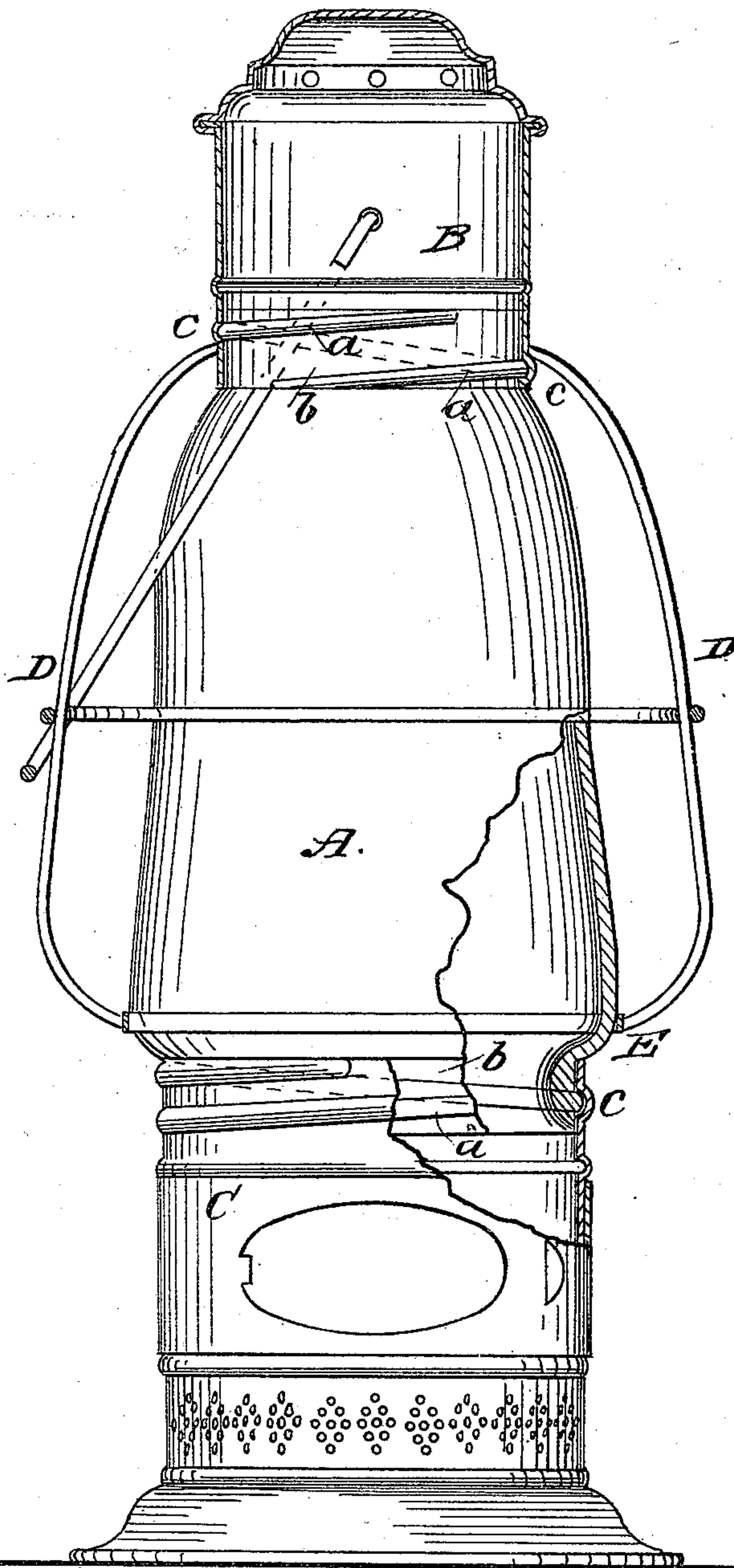


G. W. WOODWARD.

Lantern.

No. 42,249.

Patented April 5, 1864.



Witnesses  
Theodore Tusch  
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# UNITED STATES PATENT OFFICE.

G. W. WOODWARD, OF NEW YORK, N. Y.

## IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. 42,249, dated April 5, 1864.

*To all whom it may concern:*

Be it known that I, G. W. WOODWARD, of the city, county, and State of New York, have invented a new and useful Improvement in Lanterns; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, said drawing being an elevation of a lantern provided with my improvement.

This invention relates to an improvement in that class of lanterns which are provided with glass flame-protectors, of spherical, cylindrical, or other form in one piece, instead of detached glass planes for protecting the flame of the lamp from the wind. These flame-protectors, of the kind first mentioned, have hitherto been attached to their metal caps and bases by means of plaster-of-paris or other suitable cement, and in case of the breaking of a protector a new one cannot be placed in the metal frame by any one except a mechanic or one skilled in the manufacture of lanterns. Hence, in a majority of cases, when a protector gets broken the remaining metal parts are thrown away as useless.

The object of this invention is to attach a metal cap and base to the protector in such a manner that the parts may be connected together and detached by any one with the greatest facility, no cement of any kind being required, and hence in case of the breaking of a glass-frame protector a new one may be adjusted to the metal parts without the aid of a mechanic.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the glass protector (commonly termed "globe") of a lantern; B, the metal cap, and C the metal base thereof. These parts may be constructed in the usual way, and therefore do not require a minute description. The upper and lower ends of the globe A have each a spiral projection or screw-thread, *a*, upon them, which is precisely like a screw, as plainly shown in the drawing. These screw projections or threads are on the upper and lower flanges *b* of the globe or cylinder, over which flanges the metal cap and base are fitted, and these metal parts have spiral grooves *c*, swaged in their inner surfaces to receive the screw projections or

threads *a*, and admit of said metal parts being secured to the ends of the globe A. Thus, without the aid of plaster-of-paris or cement of any kind, the metal cap and base may be firmly secured on the globe and detached therefrom with the greatest facility, and consequently in case of the breaking of the globe the metal cap and base may be detached from the fragments, and the former secured on a new globe.

I do not confine myself to the screw-projections *a* on the globe and the screw or spiral grooves *c* in the metal cap and base, for similar or analogous fastenings may be employed—for instance, projections may be formed on the globe to extend therefrom, like pins, to fit into grooves or slots in the cap and base, and form what is commonly termed a "bayonet-fastening." I prefer, however, the screw-fastening, as herein described.

D represents the guards of the globe, which may be constructed of wire, as usual. These guards are attached to the cap B, and extend down to nearly the lower end of the globe, and are attached to a metal band, E, which encompasses the globe. This arrangement admits of the cap and base being turned independently of each other in order to screw them on the ends of the globe. It would not answer to have the wires or guards attached both to the cap B and to the base C, as in the old mode of construction.

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

1. A lantern provided with a glass flame-protector or globe, cylinder, or other form in one piece, with a metal cap and base secured to its ends by a screw or other equivalent fastening, which will not require the aid of plaster-of-paris or cement of any kind, substantially as and for the purpose set forth.

2. In combination with the mode of connecting the metal cap, base, and glass flame-protector, as described, the guards D, attached to the cap at their upper ends and secured at their lower ends to a band which encompasses the lower part of the flame-protector, substantially as set forth.

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Witnesses:

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