

F. J. KENNY.  
Ship-Lantern.

No. 159,933.

Patented Feb. 16, 1875.

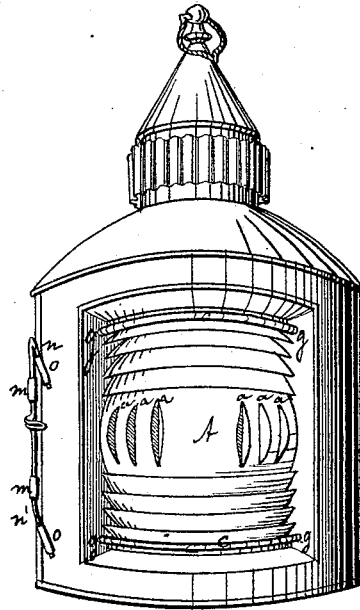


Fig. 1.

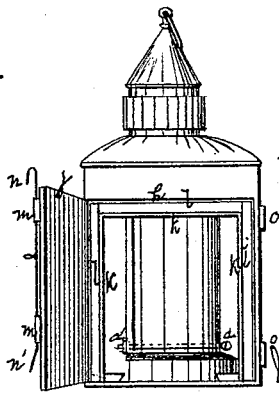


FIG. 2.

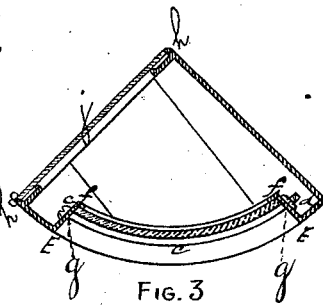


FIG. 3.

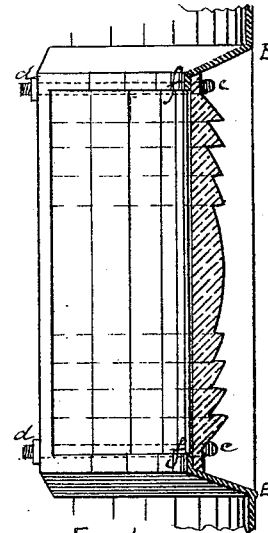


FIG. 4.

*E. A. Spang Jr.*  
*F. F. Raymond*

WITNESSES.

*Frederick J. Kenny* INVENTOR.

# UNITED STATES PATENT OFFICE.

FREDERICK J. KENNY, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN SHIP'S LANTERNS.

Specification forming part of Letters Patent No. 159,933, dated February 16, 1875; application filed January 30, 1874.

To all whom it may concern:

Be it known that I, FREDERICK J. KENNY, of Boston, Massachusetts, have invented Improvements in Ships' Lanterns, of which the following is a specification:

This invention relates to the signal or side lights of ships. It consists, first, in confining the segmental lens on the putty-bed, by means of bands fastened with nuts; second, in providing the door at top and bottom with peculiarly-shaped bolts or hooks, adapted to be shut into suitably-arranged staples.

Figure 1 is a front elevation. Fig. 2 is an elevation of the door ends, with the door open, and the interior construction shown. Fig. 3 is a sectional plan. Fig. 4 is a vertical section.

A is the glass—a segmental Fresnel cylindrical lens—fluted on its outer surface in the central belt, as shown at *a*. This intensifies the brilliancy of the light. This glass is fitted into the recess made for it, which is beveled in from the front of the lamp-box, as shown at *E*, Figs. 3 and 4. A flange, *f*, is turned upon the metal forming the sides of the recess, to form the retaining-sash for the putty. Putty, white-lead, or other suitable plastic material is then put into the angle between the bevel *E* and flange *f*, and the lens bedded like a light of glass. Thus far the usual process of setting the glass has been followed. The present method next requires that a strip of sheet metal should be soldered to the bevel *E* at top and bottom, pressing the glass, and binding it. In lieu of this, I pierce the beveled sides of the recess with holes *g*, Fig. 1, near the top and bottom, and pass a bent rod, *e*, with a knob at one end and a screw at the other, through them outside the glass, and set up the nut *d*, drawing the rod tight to the glass. If desirable, the rod may be clad with rubber. The door *j* shuts into a recess, *h*, the inner edges of which are beaded, as shown at *K*, Fig. 2. In forming this bead, the sheet metal is merely turned outward and backward on itself, and is compressed strong-

ly on a strip of rubber, *l*, on each side and at the top of recess *h*. This springs the rubber strip up from the face of the recess at a small angle, and on shutting the door the rubber touches the door, and seals the crevice airtight. This door is locked by a bolt, much like the ordinary tinnern's bolt, but an improvement which locks the door at top and bottom. Two staples, *m m*, furnish the slides on the edge of the door. The long bar passing through them has a knob or handle at the center, a hook, *u*, at the top, and a shot-bolt, *n*, at the bottom, each bent at an angle, to constantly draw, wedge, and hold the door tightly against the rubber strip when shut into the staples *o*. By confining the door top and bottom, it will hold steadier, be less likely to spring, and shut tighter against the rubber strip.

I am aware that English Patent No. 3,710, 1869, granted to one Williamson, describes a fastening for trunks, consisting of two horizontal bolts, operated by a connecting-bar parallel therewith, which play loosely in staples, and are fastened in position by a clasp, but that is not my invention.

These improvements improve the brilliancy and permanence, and steadiness of the light, give a certainty of ready repair by an ordinary workman or sailor, and do not increase the cost.

I claim and desire to secure by Letters Patent—

1. The combination of the segmental lens *A* with the recess, having beveled sides *E*, and with the curved rods *c* and nuts *d*, as and for the purposes set forth.

2. In a lantern, the combination of the door *j*, the staples *m*, and the bolt, with hook *n* and bolt *n'*, bent at an angle, to constantly draw, wedge, and hold the door, when shut into the staples *o*, for the purpose set forth, substantially as described.

FREDERICK J. KENNY.

Witnesses:

E. A. STEVENS, Jr.,  
F. F. RAYMOND.