

F. J. KENNY.
Ship-Lantern.

No. 159,933.

Patented Feb. 16, 1875.

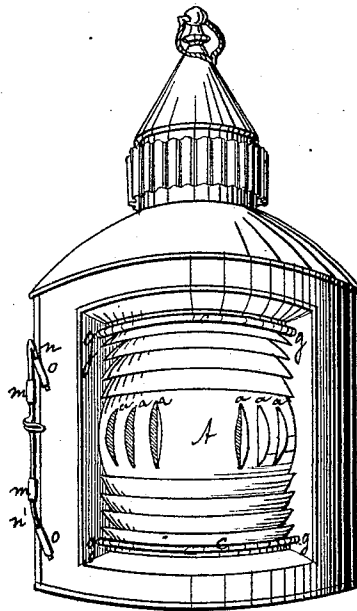


Fig. 1.

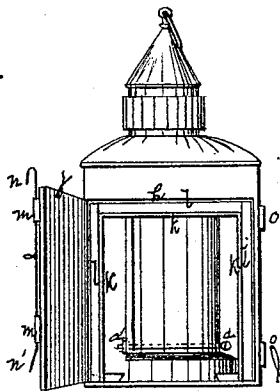


FIG. 2.

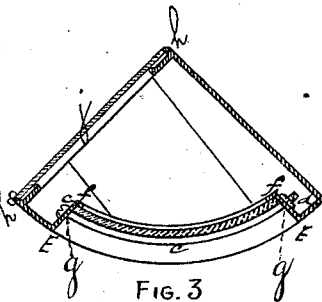


FIG. 3

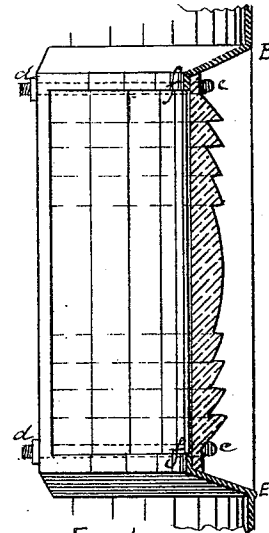


FIG. 4.

E. A. Spence 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, *c*, 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 tinner'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.