This invention relates to a new and improved port light screen or the like.

It is the object of this invention, among other things, to provide a screen for a port light that may be quickly inserted in the port light, is readily removed therefrom, and held therein against displacement.

The details and arrangement of parts of my new and improved port light screen will be apparent from an inspection of the accompanying drawings, in connection with the description hereinafter contained, and wherein like numerals of reference indicate like parts in the several figures.

In the drawings:

Figure 1 is a front view of a port light having my improved screen connected therewith;

Figure 2 is a transverse sectional view thereof with the parts in section being taken generally upon line 2—2 of Figure 1;

Figure 3 illustrates a modified form of the retaining ring;

Figure 4 is a fragmentary view of a portion of the screen showing the finger tab connected therewith; and

Figures 5 and 6 are fragmentary views of a port light and illustrating different forms of my invention.

Referring now to the drawings, 10 indicates a port light having a barrel portion 11 and to which is hinged the usual cover 12.

In the improved form of my invention, I provide two grooves 13 and 14 in the bore of the barrel, the first one to receive a stop ring 15 and the other a retaining ring 16, and between which is the screen 17.

This screen is constructed with the usual wire mesh and bound by a metal band 18, the inside diameter of which is preferably less than that of the rings 15 and 16.

The stop and retaining rings, as shown, are circular in cross section, but obviously their cross section may be angular, oval or rectangular, or any other desired shape. The ends of the stop ring preferably abut against each other, as at 19, but the ends of the retaining ring are turned inwardly to provide finger arms 20, whereby pressure may be applied to reduce its diameter to permit of its insertion or removal from the groove in the barrel.

For convenience in grasping the screen when positioned in the port light, I provide a finger tab 21, which, as shown in Figure 2, is L-shape, with one arm under the band 18 and held in position thereby and the other arm projecting outwardly beyond the retaining ring 16, thus providing convenient means for securing a grip upon the screen.

In Figure 3 there is illustrated a form of retaining ring, wherein one end is provided with a loop 22. Both ends of this ring, when positioned in the barrel, will be within the groove and only the high portion of the loop will project into the barrel.

This type of retaining ring is sprung out of position by the insertion of a pointed tool in the loop 22.

Instead of providing grooves 13 and 14 in the barrel, it may be desirable in some cases to make the bore of the barrel of two diameters instead of one and thereby provide a shoulder 23 against which the screen may be placed, as shown in Figure 5, instead of in the stop ring. It is entirely feasible also to have only a single groove in the barrel, in which is inserted a stop ring and provide the screen with a rim 24 angular in cross section which is held in position by friction. The corner of the angle rim engages the rounded wall of the ring and thereby wedges itself in place with the other end of the angle rim in contact with or adjacent to the bore of the barrel, as may seem desirable.

There are other modifications that may be made within this invention that will readily suggest themselves to one having knowledge of the art, and I would therefore have it understood that I do not limit myself to the exact construction herein shown and described, but claim all that falls fairly within the spirit and scope of the appended claims.

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

1. In a device of the character described; a port light having companion grooves in the bore of the barrel; a ring within each of the grooves; and a screen between the rings.

2. In a device of the character described; a port light having companion grooves in the bore of the barrel; an elastic ring within each of the grooves, one of the rings being formed so that a portion thereof projects
into the barrel beyond the inner wall of the ring; and a screen between the rings.

3. In a device of the character described; a port light having companion grooves in the bore of the barrel; an elastic ring within each of the grooves, one of the rings being formed of coiled wire that terminates at one end in a portion that projects inwardly beyond the inside diameter of the ring; and a screen between the rings.

4. In a device of the character described; a port light having companion grooves in the bore of the barrel; an elastic ring within each of the grooves, one of the rings being formed of coiled wire that terminates at one end in a loop; and a screen between the rings.

5. In a device of the character described; a port light having companion grooves in the bore of the barrel; an elastic ring within each of the grooves, one of the rings being formed so as to project into the barrel beyond the inner wall of the ring; and a screen between the rings formed with a metal rim substantially U-shape in cross section with a wire mesh gauze held within the rim.

6. In a device of the character described; a port light having companion grooves in the bore of the barrel; an elastic ring within each of the grooves, one of the rings being formed so that a portion thereof projects into the barrel beyond the inner wall of the ring; a screen between the rings; and a finger tab connected with the screen, having an arm which projects outwardly at an angle thereto.

7. In a device of the character described; a port light having an abutment in the bore of the barrel; and a screen positioned against the abutment, said screen being formed with a wire mesh gauze encircled by a rim substantially U-shape in cross section and a finger tab secured in position by the rim and having an arm which projects outwardly at an angle thereto.

In testimony whereof, I have hereunto affixed my signature.

TRACY M. CROWELL.