No. 649,250. Patented May 8, 1900.

G. L. MARTIN.

MARINE ELECTRIC LIGHT FIXTURE.

(Application filed Dec. 4, 1899.)

(No Model.)

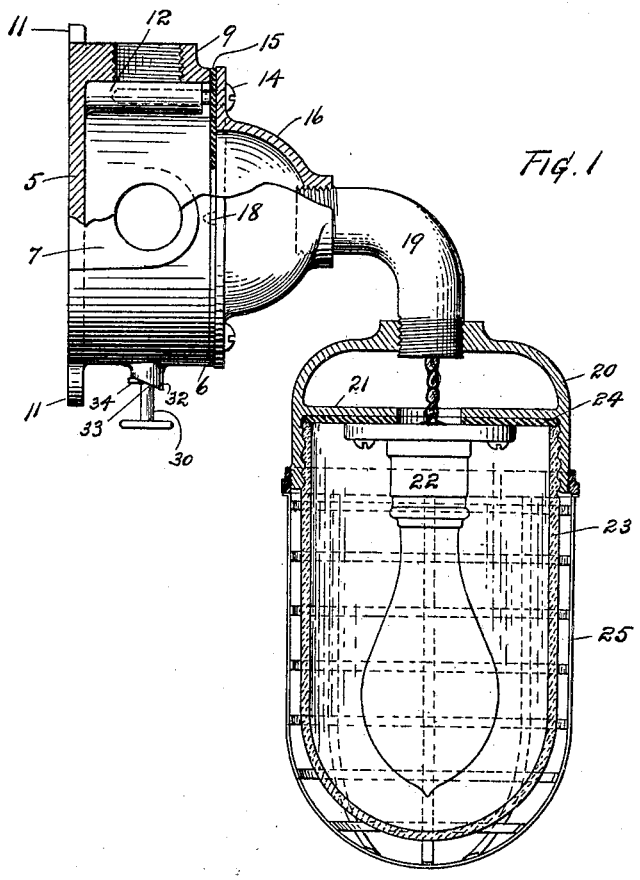


FIG. 1

FIG. 2

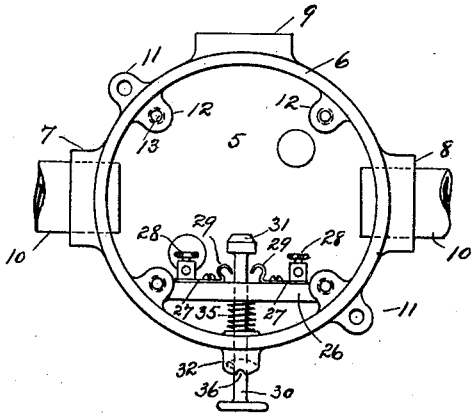
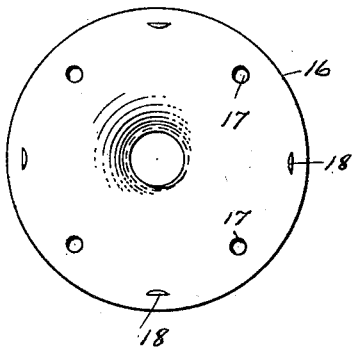


FIG. 3.



WITNESSES:

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MARINE ELECTRIC-LIGHT FIXTURE.

SPECIFICATION forming part of Letters Patent No. 649,250, dated May 8, 1900.

Application filed December 4, 1899. Serial No. 739,163. (No model.)

To all whom it may concern:

Be it known that I, GEORGE L. MARTIN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Marine Electric-Light Fixtures, of which the following is a specification.

My invention relates to marine electric-light fixtures; and the objects thereof are, first, to produce a fixture which shall be perfectly water-tight; second, to provide an effective switching apparatus within the fixture; third, to provide a fixture which can be manufactured more cheaply than those now on the market. I attain these objects by the mechanism illustrated in the accompanying drawings, in which--

Figure 1 is a marine electric-light fixture, partly in section, constructed according to my improvements. Fig. 2 is a plan view of the box with the switch located therein, and Fig. 3 is a bottom plan view of the bracket-base.

Similar numerals of reference refer to like parts in each of the views, and in the practice of my invention I provide a box of peculiar construction, consisting of a solid unperforated base 5 and an annular rim 6, on which are formed three bosses 7, 8, and 9, through two of which pass the service-pipe 10 and which are secured therein in a water-tight manner. The third boss may be bored and tapped to provide means of communication with a branch light, if desired. External lugs 11 are provided, so that the box may be secured to a support without passing screws through the box. Within the box are a plurality of posts 12, each of which is provided with a tapped recess 13, adapted to receive a screw 14, by which the bracket may be secured thereto, and a gasket 15 serves to make a water-tight connection. The bracket consists of a base 16, which is provided with apertures through which pass the screws 14, and the base 16 is provided with a plurality of prongs 18, adapted to pass through the gasket 15, as shown in dotted lines in Fig. 1, and by reason of this construction gaskets can be readily made out of any piece of sheet-rubber or other packing material, and the prongs will center the same when being placed in position. The bracket further consists of an elbow 19 and a headpiece 20. The elbow 19 is preferably threaded externally, and the base 16 and head 20 are provided with threaded apertures to engage the same.

The head 20 is preferably cast in one piece and is provided with an integral flange 21, on which is mounted the electric lamp 22. A glass globe 23 is screwed into the outer end of the head 20 and bears upon a gasket 24, mounted on the flange 21, whereby a water-tight connection is formed, and a guard 25 may be used to protect the globe 23 and lamp.

Since it is desirable that the switch should also be inclosed within the fixture, I have provided a switch especially adapted for use in a fixture of this kind, consisting of a plate 26, composed of fiber or other suitable material and adapted to tightly fit between two of the posts 12, preferably on the side of the box opposite to the boss 9. On the plate 26 I mount two spring contact-plates 27, each of which connects with a corresponding binding-post 28, and the opposite end or free end of each plate is bent to form a hook 29. A shaft 30 carries a contact-ring 31 at its inner end and is mounted in a water-tight manner in a boss 32 on the rim 6. The boss 32 is provided with an inclined face 33, and a pin 34 on the shaft 30 contacts with said face and when the shaft 30 is rotated drives the said shaft outward against the action of a spring 35 and carries with it the ring 31 until it contacts with both hooks 29 of the plates 27, when of course the current will pass, and a notch 36 in the outer end of the boss 32 serves to hold the ring 31 in contact with the hooks 29, as will be readily understood.

In operation the wires are passed into the box through the service-pipe 10, and connection is made with the binding-posts 28. Wires are passed from there through the bracket to the electric lamp, and connection will be made, so as to pass the current to the lamp by rotating the shaft 30, so as to bring the ring 31 into contact with the hooks 29 of the plates 27, as will be readily understood.

I do not confine myself to the exact construction or arrangement of parts here disclosed, nor do I confine myself to the use of the box and switch with the kind of bracket

herein disclosed, for the shape of the bracket would depend largely on the position on shipboard where the fixture was to be located.

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

1. A marine electric-light fixture, comprising a box having external lugs 11, internal posts 12, with tapped recesses 13, a bracket mounted on said box by means of screws 14 engaging said tapped recesses, prongs on the base of said bracket, and a gasket mounted on said prongs between said bracket and said box, said bracket consisting of a base 16, elbow 19, and head 20, substantially as and for the purpose described.

2. In a marine electric-light fixture, a switch mounted within the box, a boss on said box having an inclined outer face, a shaft entering said box through said boss, and carrying a pin adapted to engage said inclined face whereby contact is made in said switch, for the purpose set forth.

3. In a marine electric-light fixture of the character described, a box consisting of base 5, rim 6 having bosses 7, 8, 9 and 32, said boss 32 having an inclined outer face, said box being provided with external lugs 11, and internal posts 12, having tapped recesses 13, substantially as and for the purpose set forth.

4. In a marine electric-light fixture, the combination with an outlet-box, having a base 5, rim 6 with bosses 7, 8, 9, and 32, external lugs 11, and internal posts 12, with tapped recesses 13, of a switch mounted within the box and supported by said posts, said switch consisting of a plate 26, plates 27 having hooks 29, binding-screws 28, a shaft 30 carrying ring 31 adapted to contact with said hooks, and means to throw said ring into contact with said hooks, for the purpose set forth.

5. In a marine electric-light fixture, the combination with an outlet-box, having a base 5, rim 6 with bosses 7, 8, 9, and 32, external lugs 11, and internal posts 12 with tapped recesses 13, of a switch mounted within the box and supported by said posts, said switch consisting of a plate 26, plates 27 having hooks 29, binding-screws 28, a shaft 30 carrying ring 31 adapted to contact with said hooks, and means to throw said ring into contact with said hooks, consisting of a pin inserted in said shaft, and said boss 32 having an inclined outer face adapted to engage said pin and move the said shaft longitudinally, substantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE L. MARTIN.

Witnesses:
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