Nov. 19, 1929. J. S. McREA 1,736,208

PORTABLE SEARCHLIGHT

Filed Feb. 18, 1927

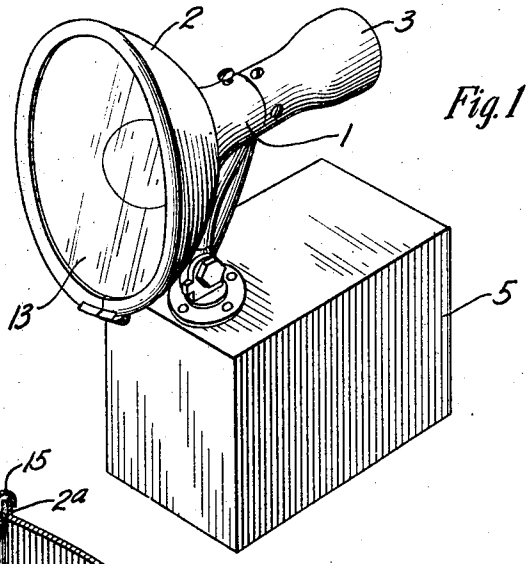


Fig. 1

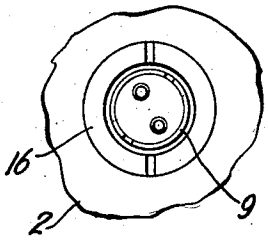


Fig. 3

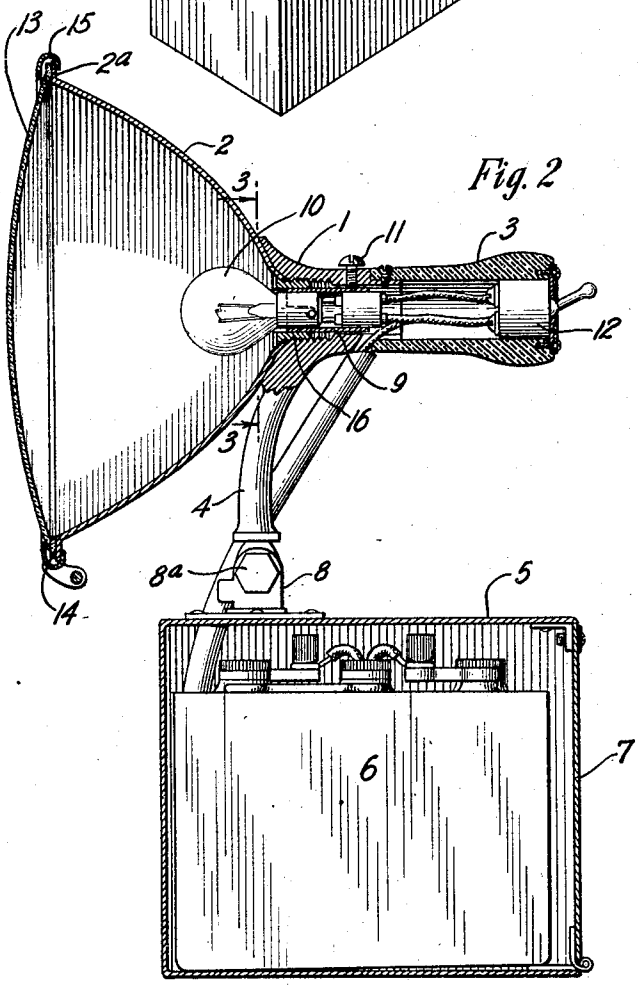


Fig. 2

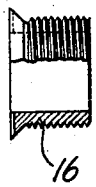


Fig. 4

INVENTOR
John S. McRea,
BY
Hammond & Littell
ATTORNEY

Patented Nov. 19, 1929 1,736,208

UNITED STATES PATENT OFFICE

JOHN STEVENS McREA, OF BAYSIDE, LONG ISLAND, NEW YORK, ASSIGNOR TO PORTABLE LIGHT COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK

PORTABLE SEARCHLIGHT

Application filed February 18, 1927. Serial No. 169,159.

This invention relates to improvements in portable electric search lights, and particularly those of a high power adapted for a variety of uses such as for automombiles, boats, fire companies, public utility corporations, signaling lights, etc. The invention comprises a suitable reflector for projecting the rays of light which is adjustably mounted upon a casing containing any desired source of electric current.

It is an object of this invention to provide a portable electric search light of high power and long life mounted on a suitable support, the source of current for the light being removably retained in the support, at a lower cost than possible with prior construction.

It is a further object of this invention to provide a portable electric search light comprising a reflector and a rearwardly extending handle in the end of which is provided an electric control switch.

Another further object of this invention is to provide a portable container for use with a standard reflector mounting, comprising a box shaped receiver with a hinged end, the receiver adapted to removably retain a storage battery, and being provided on its top with a suitable means for attaching the reflector mounting.

It is a further object of this invention to arrange the handle of a reflector mounting superposed on a battery box receiver so that the entire device may be carried by the handle without changing the desired angle of light beam.

Other objects of the invention will more fully appear from the following description and the accompanying drawings which illustrate a preferred embodiment of the invention, and will be specifically pointed out in the annexed claims.

In the drawings—

Figure 1 is a perspective view of my portable electric search light.

Figure 2 is a side elevational view partly in section through the light and battery box.

Figure 3 is a detail on the line 3—3 of Figure 2.

Figure 4 is a detail view partially cut away to show the construction of the sleeve fastener.

The light mounting 1 is preferably made as a unitary casting comprising the front portion to which the reflector 2 is suitably attached as will be later described, the rear portion which is turned down to receive the hollow carrying handle 3 preferably made of hard rubber and integral therewith and an extended stem 4 to be adjustably attached to the battery case 5.

The battery case 5, preferably made of sheet steel and welded along the edges, is of such proportions as to receive and retain the storage battery 6, which may be removed through the door 7, hinged or bolted in place in any desired manner. This case also has a bracket 8, cooperating with the end of the stem 4 to adjustably and pivotally attach the reflector, mounting and handle thereto. It is to be noted that the case 5 is separate from the conventionally known battery box containing the cells of the battery 6, and sealed thereto.

The cylindrical hollow handle 3 and mounting are provided with a suitable tubular socket 9, preferably of the bayonet type construction and which supports the light source or electric bulb 10, the bulb and socket being longitudinally mounted for adjustment by the adjusting screw 11 whereby any desired focus of the bulb relative to the reflector may be arranged.

The socket 9 is connected by means of the necessary wires to the toggle switch 12 preferably conveniently reposing within finger reach in the end of the handle 3, and to the terminals of the battery 6, the parts of the wire subject to abrasion or contact with exterior elements, being covered with a heavy rubber tube for protection. It is clearly obvious that this covering may also be of armored cable or any other device or means to protect exposed wire from short circuit.

The reflector 2 is provided with a flange or lip portion 2^a at its outer edge to which is attached the glass 13 and the intermediate gasket 14, of cork or other cushioning material by means of a split ring 15 as is well known in the art, or other preferred means may be

used, the object being to allow for insertion of a bulb 10 and to provide a means to keep dust, dirt and water from marring the reflector.

The bracket 8 is provided with a bolt 8ª acting both as a pivot and as an adjusting means so that the reflector and mounting may be swung through any desired arc and may be retained in such position by merely tightening the bolt 8ª.

Figures 3 and 4 show the end and side views of the threaded sleeve 16 which is flanged at the head to cooperate with the depressed portion of the back of the reflector. The screw threaded portion is adapted to be inserted through the hole in the reflector and screwed into the mounting 1. This arrangement is a preferred one as it allows for interchangeability of parts and ready removal in case of damage to the body or surface of the reflector or other parts with the use of a minimum number of parts.

The storage battery 6 used in this portable light, as will be noticed, is used for no purpose other than its proper function; the supply of electric energy. By thus limiting it the construction may be very cheap, light in weight and of a standard form in common use. For all purposes of support and for protection, as well as to present a neat appearing portable light, the sheet steel case is used. The ready removability of the battery to and from the case, allows a continuous service with the quick substitution of one battery for a recharged one. Such organizations as a fire company are therefore adequately equipped with a high powered light in portable form operable under any and all emergencies, with the only expense of maintenance, the insignificant cost of recharging the batteries as needed.

It will be understood that the embodiment of the invention disclosed herein is illustrative and not restrictive and that various changes in form, construction and arrangement of parts may be made within the spirit and scope of the appended claims.

Having thus described my invention, what is claimed as new and desired by Letters Patent is:

1. A portable electric searchlight comprising a battery box receiver adapted to contain a wet cell storage battery, a mounting attached to the upper face of said receiver adjacent one edge thereof, a lamp secured to one side of said mounting, a hollow insulating handle attached to the other side and an electrical connection having one end entering the receiver through an opening located adjacent the point of attachment of the mounting and the receiver and adapted to be connected to said storage battery, and the other end entering the hollow handle adjacent the union of the handle and the mounting.

2. A portable electric searchlight comprising a battery box receiver, a bracket on the upper face of the receiver adjacent one edge thereof, a unitary mounting having its lower end adjustably connected to said bracket, a lamp attached to one side of said mounting, a hollow handle attached to the other side of the mounting, a switch projecting from said handle and an electrical connection having one end entering the receiver through an opening located adjacent the point of attachment of the mounting and the receiver, and the other end entering the hollow handle adjacent the union of the handle and the mounting.

3. A portable electric searchlight comprising a battery box receiver, a unitary mounting adjustably attached to the upper face of said receiver adjacent one edge of the receiver, a lamp and reflector detachably secured to the front side of the mounting, a hollow insulating handle attached to the rear side of the mounting, the said handle terminating substantially above the rear end of the receiver, a switch in the rear end of the handle in position to be manipulated by the fingers while the handle is grasped, and an electrical connection having one end entering the receiver through an opening located adjacent the point of attachment of the mounting and the receiver, and the other end entering the hollow handle adjacent the union of the handle and the mounting.

In testimony whereof I have affixed my signature to this specification.

JOHN STEVENS McREA.