April 8, 1924. 1,489,305

W. S. CALKINS

COMBINATION CLUB AND SEARCHLIGHT

Filed Feb. 9, 1923

Fig. 1

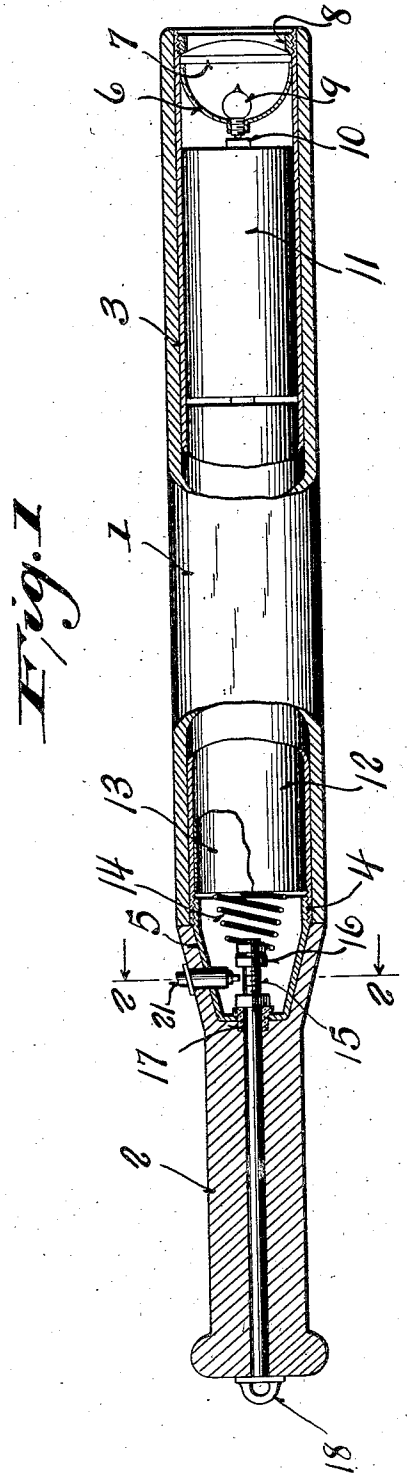
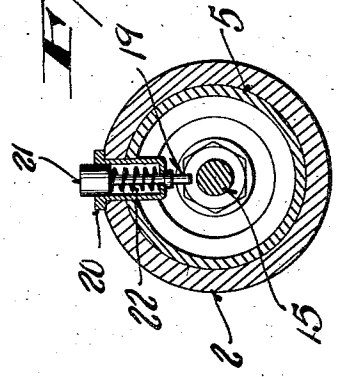


Fig. 2



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Patented Apr. 8, 1924. 1,489,305

UNITED STATES PATENT OFFICE.

WALTER S. CALKINS, OF RACINE, WISCONSIN.

COMBINATION CLUB AND SEARCHLIGHT.

Application filed February 9, 1923. Serial No. 617,935.

To all whom it may concern:

Be it known that I, WALTER S. CALKINS, a citizen of the United States, and resident of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Combination Clubs and Searchlights; and I do hereby declare that the following is a full, clear, and exact description thereof.

This invention relates to combined club and searchlight.

Objects of this invention are to provide a combined club and flashlight, which is particularly adapted for use by night watchmen, policemen and others of this general type, and which is so constructed that it functions both as a club and as a flashlight or searchlight, thereby relieving the user from the necessity of carrying both a light and a club, which is now the usual practice.

Further objects are to provide a combined club and flashlight which is so constructed that the operator may grasp the handle in readiness to use it as a club, and when desired may instantly turn on the light without removing his hand.

Further objects are to provide a combined club and flashlight in which the body portion, although hollowed out to receive the standard batteries and lamp, is, nevertheless, metal-lined so as to retain its original strength, which is so constructed that the outer end of the lens or lamp structure is protected from damage, and which is so constructed that it may be readily separated to permit refilling.

An embodiment of the invention is shown in the accompanying drawing, in which—

Figure 1 is a side view of the club, partly in section.

Figure 2 is a transverse sectional view on an enlarged scale, taken on the line 2—2 of Figure 1.

Referring more particularly to the drawings, it will be seen that the club comprises a hollow body portion 1, provided with a handle 2 and with a metal lining or sleeve 3, which extends throughout the body portion. This metal lining is interiorly threaded, as indicated at 4, and receives the exterior threaded portion of a cup-shaped metallic reinforcement 5, for the forward portion of the handle 2, such cup-shaped reinforcement thereby strengthening the joint between the body portion and the handle proper.

A reflector 6 is positioned adjacent the forward end of the body portion and in front of the reflector a lens 7 is located, such lens being conveniently held in place by a threaded collar 8 and spaced a material distance from the outer end of the club to thereby prevent damage to the lens or lamp structure. Within the reflector a lamp 9 is mounted and is preferably screwed into an aperture formed in the rear of the reflector, with one terminal thereof connecting with the metallic reflector and thus with the metallic sleeve 3 and with the other terminal connecting with the center terminal 10 of a battery 11.

A series of batteries of cylindrical contour and of standard type may be assembled within the hollow body portion, their insulating outer coverings 12 preventing contact of their outer metallic shells 13 with the metallic lining 3.

It is to be noted that the center terminal of one battery contacts with the metallic exposed base of the succeeding battery and thus connects the batteries in series. The rearmost cell is resiliently held in position by means of the conical spring 14 which bears against the metallic base of the last battery and connects such base with a metallic bolt 15—the rear end of the spring being conveniently held between nuts 16 screwed upon said bolt. This bolt is threaded into an insulating sleeve 17 positioned in the rear portion of the cup 5 and terminates in an outer suspension flanged eyelet head 18. A movable plunger 19 is positioned adjacent the bolt and is carried in a metallic shell 20 contacting with and passing through the cup-shaped metallic member 5. The outer end of the plunger 19 is enlarged to provide a manipulating button 21 and a spring 22 loosely coiled about the plunger, holds the plunger in a retracted position, as indicated in Figure 2. It is to be particularly noted that by having the nuts 16 clamp the spring 14 between them that the spring may be adjusted to any desired degree of tension to accommodate variations in the length of the column of batteries.

When it is desired to operate the lamp, the button 21 is pressed, thereby causing the plunger 19 to electrically connect the me-

tallic cup-shaped member 5 with the bolt 15 and thus to complete the electrical circuit, including the batteries and lamp, thereby lighting the lamp.

This combined club and flashlight may be most readily refilled by unscrewing the body portion from the handle portion, such portions being divided adjacent the rear end of the metallic sleeve 3 and the metallic sleeve freely unscrewing from the metallic cup member 5, as may be seen from Figure 1.

Obviously this club may be made to accommodate any desired number of batteries to secure the proper voltage for the lamp 9. However, if a lamp of lower voltage than that usually employed is used, obviously a metallic blank may be substituted for one or more of the batteries, and a paper sheet wrapped around it. If it is desired, the lens 7 and the reflector 6 may be so constructed as to provide a focusing light, or a single pencil of rays without material divergence, thus in effect producing a searchlight.

It will thus be seen that a combined club and flashlight is provided which is eminently suited to the needs of policemen and those engaged in similar occupation. It will further be seen that the weight of the batteries and of the metallic shell restores the weight of the hollow body portion to at least its original value, so that the club will not be light but will be of the desired weight.

It is also to be noted that although the body portion has been hollowed out, the strength of the club is maintained by means of the metallic lining, so that no sacrifice is made and the club is equally efficacious in its usual capacity as any other standard club.

It is to be understood that although the sleeve 3 has been referred to as of metal, it may be made of other suitable material and an electric connector may be used to join the reflector and the cup shaped member 5.

Although one form of the invention has been described in considerable detail, it is to be understood that the invention may take various forms and is to be limited only as set forth in the appended claim.

I claim:

A combined club and flash light comprising a handle portion having a recessed end, a hollow club portion contacting with the recessed end and having a lamp in its outer end, a series of batteries mounted in regular sequence behind said lamp and extending to a point adjacent the cup shaped recessed portion of said handle, a metallic lining in said club portion, a metallic lining in said cup shaped recessed portion threaded into said first mentioned metallic lining, a bolt having an exterior eyelet located at the outer end of the handle and extending through such handle and having a threaded end projecting into and insulated from the metallic lining of said cup shaped recessed portion of said handle, a spring bearing against the inner end of the series of batteries and a pair of nuts adjustably carried upon said threaded end and clamping the spring between them to hold such spring in an adjusted position, and manually operable means for electrically connecting said metallic linings with said bolt.

In testimony that I claim the foregoing I have hereunto set my hand at Racine, in the county of Racine, and State of Wisconsin.

WALTER S. CALKINS.