M. H. SPIELMAN.

FLASH LIGHT OR ELECTRIC TORCH.

APPLICATION FILED MAY 27, 1916.

1,227,013.

Patented May 22, 1917

Fig. 1.

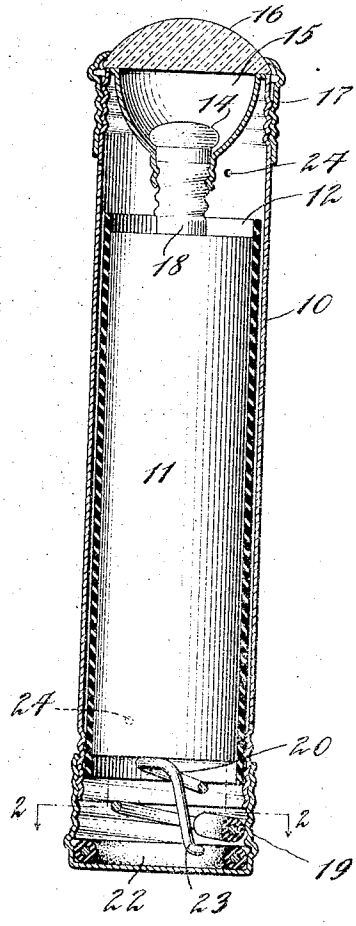


Fig. 2.

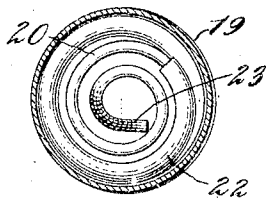
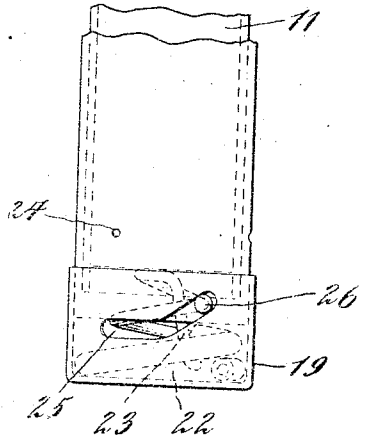


Fig. 3.



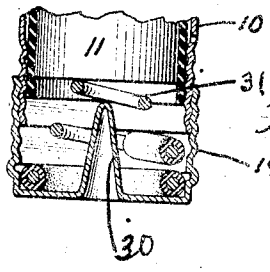


Fig. 4

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FLASH-LIGHT OR ELECTRIC TORCH.

1,227,013. Specification of Letters Patent. Patented May 22, 1917.

Application filed May 27, 1916. Serial No. 100,197.

To all whom it may concern:

Be it known that I, MAX H. SPIELMAN, a citizen of the United States, and a resident of the borough of Manhattan, in the city, county, and State of New York, have invented certain new and useful Improvements in Flash-Lights or Electric Torches, of which the following is a description in such full, clear, and exact terms as will enable any person skilled in the art to which it pertains to make and use the same.

The object of my invention is to do away with the usual thumb or press button switch so common in electric flash lights.

My invention seeks to minimize the waste of current by placing the circuit closing device at one end of the battery case and disposing it so that a turning movement of the cap or case opens or closes the circuit as desired. This furnishes a convenient way of lighting the electric bulb and one which does not allow of accidental closing of the circuit.

Reference is had to the accompanying drawings which represent as a sample the preferred embodiments of my invention. In these drawings—

Figure 1 is a sectional view longitudinally of the case.

Fig. 2 is a cross-section on the line 2—2 of Fig. 1, and

Fig. 3 is a partial elevation showing a modification.

Fig. 4 shows a sectional view of a modification of the circuit closing device.

10 indicates the cylindrical case which may be of metal to serve as a conductor for carrying the current. 11 is the battery which is usually furnished with a non-conducting covering of paper or the like 12.

At one end of the case the electrical lamp 14 is arranged as usual in a reflector 15, the lens 16 being held by a screw cap 17. One terminal of the lamp 14 is in contact with the center pole 18 of the battery 11 and the other is grounded on the reflector 15 and from that to the metallic case 10.

At the bottom end of the case the usual screw cap 19 is provided which is removable in order to admit the introduction of the battery into the case. The current passes along the case 10 and to complete the circuit the case must be brought into contact with the lower end of the battery 11 and according to my invention this is done by means of the spiral spring 20 which is furnished with an insulation covering 22 at the base, the base of the spring resting on the bottom of the screw cap 19 and the upper part of the spring in contact with the battery 11. The end of this spring is bent down away from the base of the battery and toward the bottom of the screw cap 19. Thus it can be seen that when the base cap is screwed up the bent portion 23 of the spring will come in contact with the base of the screw cap thus forming an electrical circuit, and thereby lighting the lamp.

Thus it can be seen that all that is necessary to light the lamp is to turn the screw cap one way and in order to put the lamp out this motion need only be reversed. Now it will be observed that this operation requires a positive movement on the part of the user before the light is put out so that there is no danger of the light being allowed to burn needlessly except from the most wanton carelessness. 24 indicates ventilating openings which are preferably formed in the metal or other exterior case 10.

The construction shown in Fig. 3 amounts simply to the substitution of the slot 25 and the pin 26 for the screw threads on the cap 19.

I claim:—

1. An electric flash light having an exterior case for the battery and lamp, one leg of the circuit passing through said case, a cap on one end of the case, a spiral spring mounted in the cap, in contact with the battery, one end of which is bent toward the base of the cap so that the circuit is closed by the turning of the cap and the contact of the cap and bent spring.

2. An electric flash light having an exterior case for the battery and lamp, one leg of the circuit passing through said case, a cap on one end of the case to close the same and adapted to have a motion longitudinally of the case upon the turning of

the cap and the contact of the cap to engage the battery and close the circuit upon the said turning of the cap, said contact being formed by a spiral spring in the cap, the base of which is insulated and the end of which is bent toward the base of the cap to close the circuit when the cap is turned.

In testimony whereof I have hereunto signed my name in the presence of two witnesses.

MAX H. SPIELMAN.

Witnesses:
PATRICK A. BOLGER,
ISAAC B. OWENS.