June 13, 1933. B. F. MULDOON 1,913,946

FLASH LIGHT

Filed May 7, 1929

Fig. 1.

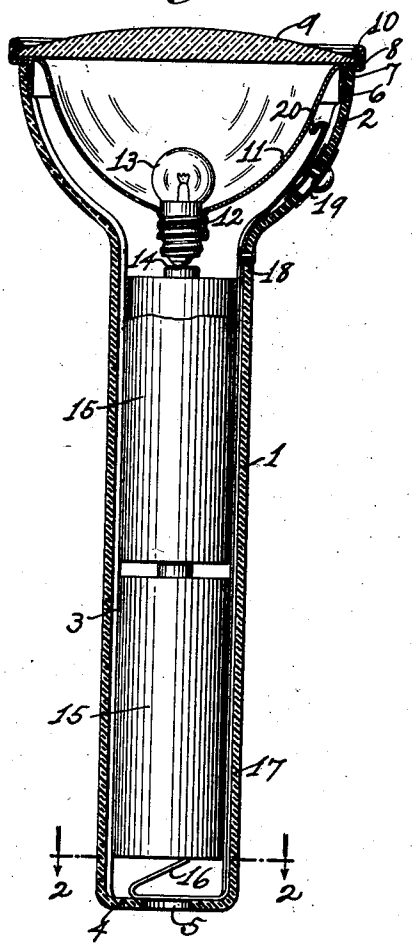
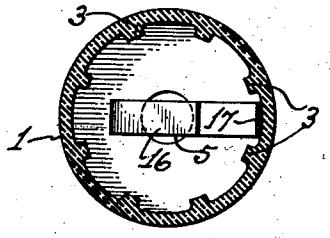


Fig. 2.



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UNITED STATES PATENT OFFICE

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FLASH LIGHT

Application filed May 7, 1929. Serial No. 361,085.

This invention relates to a flash light of which the casing is made up of insulating material, such as bakelite for example, that is appreciably strengthened by means of longitudinal ribs along the inside thereof. The casing is closed at one end, except for a small hole to facilitate removal of the battery and is enlarged at the other end to provide space for a reflector, etc. A conductive strip is located on the inside of the casing, having a resilient bent portion at one end to press the battery into contact with the electric bulb and having the other end disposed to be pressed against the reflector to complete the electric circuit.

The invention will be understood from the description in connection with the accompanying drawing in which Fig. 1 is a vertical section through an illustrative embodiment of the invention; and Fig. 2 is a section taken along the line 2—2 of Fig. 1.

In the drawing reference character 1 indicates a casing of insulating material, such as bakelite for example, that has an enlarged end 2 for the reception of a reflector and other parts of the device. Longitudinal internal ribs 3 may be provided along the inside of the casing 1 to strengthen the same. The lower end 4 of the casing is entirely closed, except for an opening 5 through which a pin or the like may be inserted to push the battery out of the casing when it is desired to replace the same with a new one.

The enlarged end 2 of the casing is internally threaded, as indicated at 6 and an externally threaded sleeve 7 is adapted to be screwed into the enlarged end. The sleeve 7 is provided with a flange 8 and shoulder for the reception of the rim of a lens 9 that may be kept in place in the flange by means of the wire 10 in a well known manner.

A reflector 11 has its rim also extending into the flanged portion of the sleeve 7 below the lens 9. The reflector 11 is provided with a screw threaded sleeve portion 12 into which an electric light bulb 13 may be screwed. The center contact 14 of the bulb 13 contacts with a terminal of the battery 15 that may be made up of two cells in the usual way.

The battery is spring pressed against the center contact 14 of the bulb 13 by means of the bent or folded back end 16 of a resilient metallic strip 17. The bent or folded back end 16 extends across the lower end 4 of the casing and the main or body portion of the strip 17 is located between two of the ribs or corrugations 3, so as to be out of the way of the battery 15. A rivet 18 is provided for attaching the strip 17 to the casing 1. A switch 19 is provided on the enlarged part 2 of the casing 1 and serves to press the spring end 20 of the strip 17 into contact with the reflector 11, when it is desired to close the circuit.

The current passes from the battery 15 through the contact 14, filament of the bulb 13, sleeve 12, reflector 11, strip 17 and bent end 16 back to the battery, when the switch 19 is in position to cause the end 20 to contact with the reflector 11.

I claim:—

1. In a flash light, a casing of insulating material having ribs along the inside thereof, a strip of conductive material between two of said ribs, a battery, an electric bulb, and means to complete a circuit through said battery, bulb and strip.

2. In a flash light, a casing of insulating material having ribs along the inside thereof, a strip of conductive material between two of said ribs said strip having a return bend at one end and being bent outwardly in the opposite direction at the other end, a battery, an electric bulb, and means to make and break the circuit through said battery, bulb and strip.

3. In a flash light, a casing of insulating material having ribs along the inside thereof, a strip of conductive material between two of said ribs, a battery, a metallic reflector, an electric bulb, and means to complete a circuit through said battery, reflector, bulb and strip by springing one end of said strip into contact with said reflector.

BERNARD F. MULDOON.