

No. 695,756.

Patented Mar. 18. 1902.

W. McCONNELL.
ELECTRIC LAMP.

(Application filed July 12, 1901.)

(No Model.)

Fig. 1.

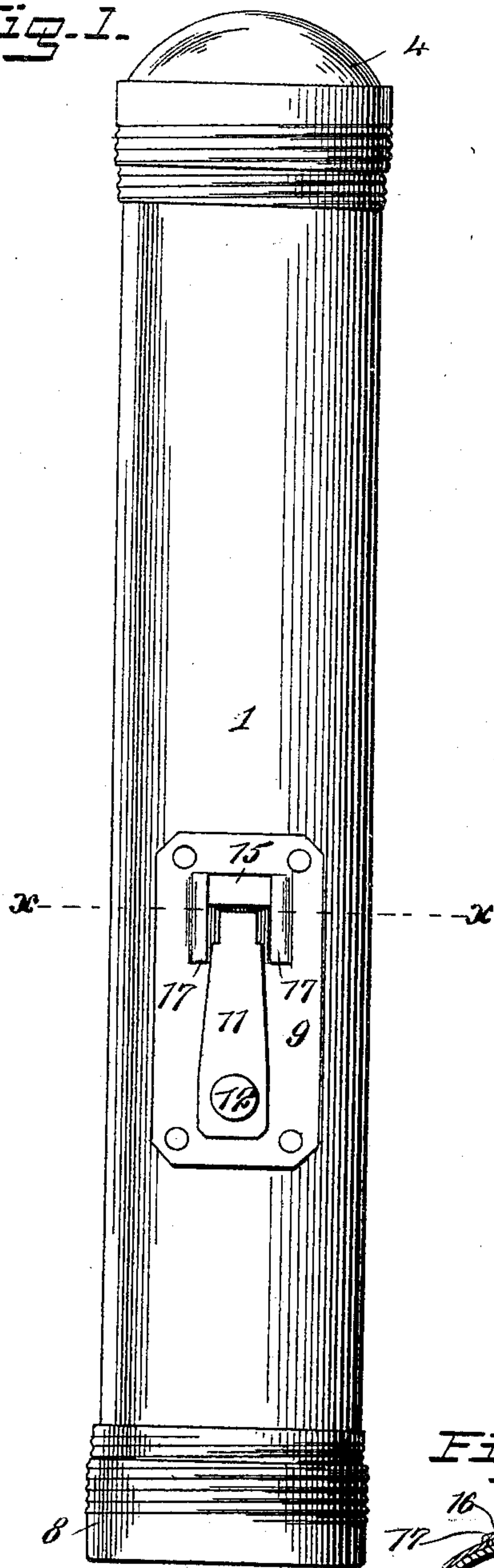


Fig. 2.

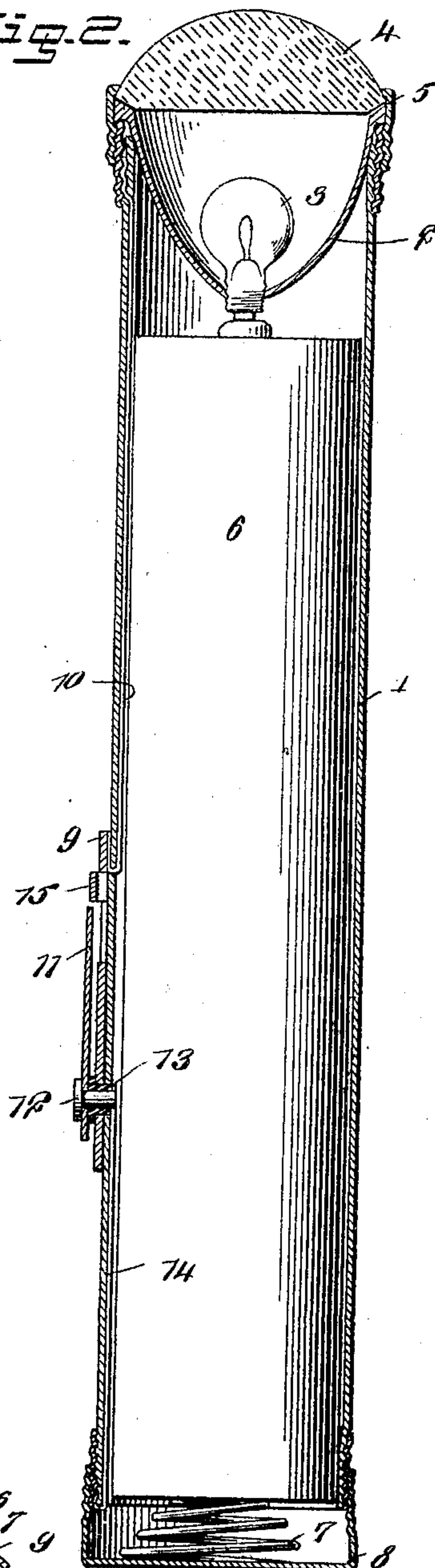
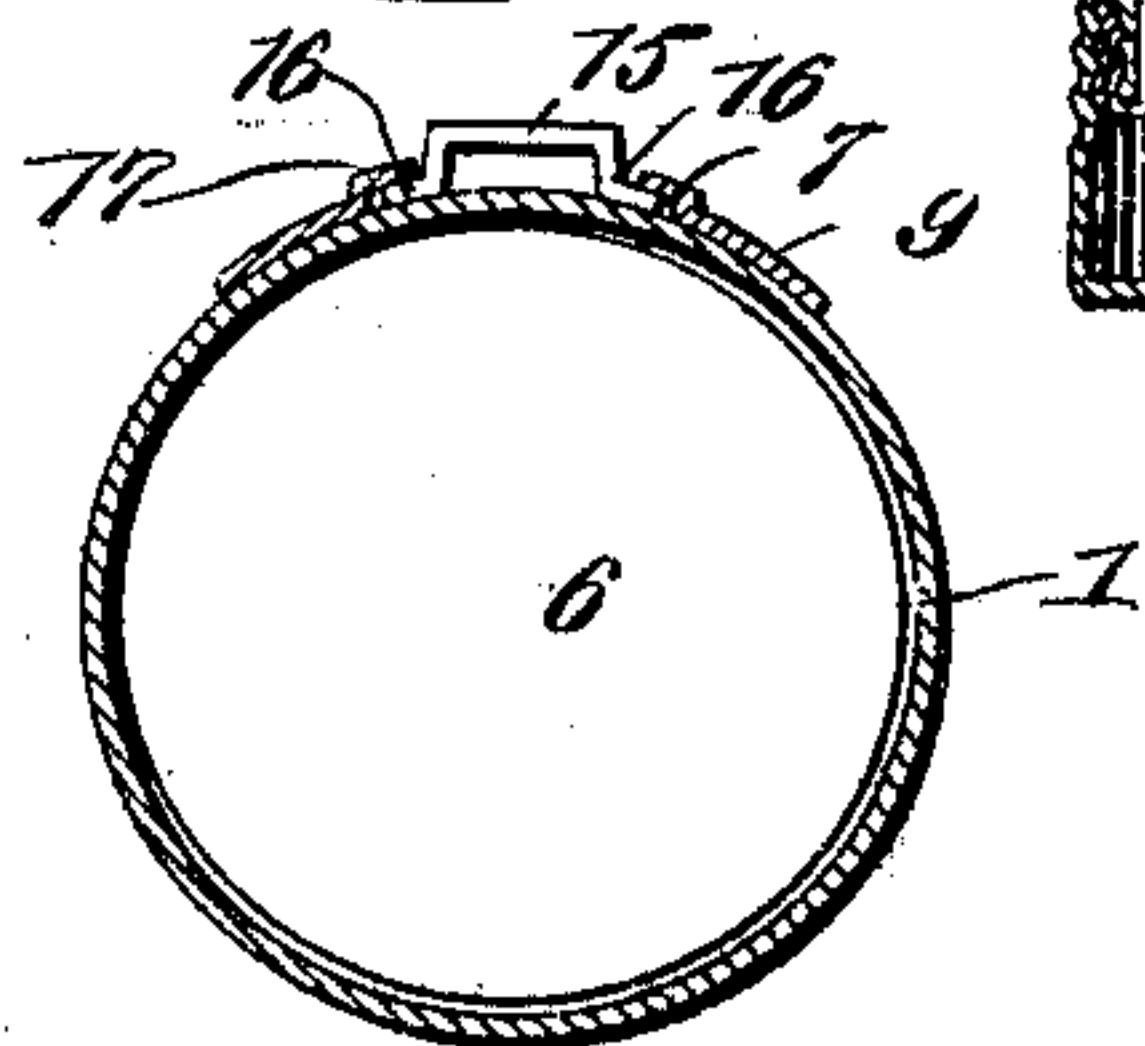


Fig. 3.



WITNESSES:

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ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 695,756, dated March 18, 1902.

Application filed July 12, 1901. Serial No. 67,997. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM McCONNELL, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Electric Lamp, of which the following is a full, clear, and exact description.

This invention relates to improvements in electric lamps or torches of the class designed to be carried in the hand or pocket; and the object is to provide in connection with the lamp a circuit-closer by means of which an intermittent or flash light may be produced and by means of which the circuit may be held closed for any desired length of time.

I will describe an electric lamp embodying my invention and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of a lamp embodying my invention. Fig. 2 is a longitudinal section thereof, and Fig. 3 is a section on the line *x x* of Fig. 1.

Referring to the drawings, 1 designates the tubular body portion of the lamp, which forms the handle. This body portion, consisting of insulating material, may be covered by any suitable material—such, for instance, as leather, paper, or the like. At one end of the body portion is a reflector 2, in which the lamp-bulb 3 is secured, and at the outer end of the reflector is a lens 4, held in place by a collar 5, having screw-thread engagement with the body portion.

Arranged in the body portion is the battery-cell 6, one pole of which connects with a pole of the lamp, while the other pole of the lamp is in electrical connection with a metal ring at the front end of the body portion through the reflector 2. The other pole at the end of the cell is in electrical connection with a metal ring on the body portion through the spring 7 and the screw-cap 8.

The circuit-closer consists of a metal plate 9, secured to the body portion and having a wire connection 10 with the ring on the body portion at the end engaging with the reflector. Mounted on the plate 9 is a spring-yielding contact-plate 11, the plate 11 being secured to the plate 9 by means of a rivet 12, the said rivet, however, being insulated by a

bushing 13 from said plate 9. From the rivet 12 a wire 14 extends to the ring at the end of the body portion engaged by the cap 8 and is secured to said ring at the end of the body portion. The cell 6 of course will be covered with paper or other suitable insulating material in the usual manner, so that there can be no connection between its body portion and the conducting-wires.

As a means for holding the circuit closed for any desired length of time I provide a keeper or slide 15, having movable connection on the plate 9. As hereshown, the keeper has laterally-extended portions 16, which engage in guideways 17, formed on the plate.

In operation when an intermittent or flash light is desired the circuit may be intermittently closed and opened by finger-pressure upon the plate 11, forcing the same against the plate 9 to close the circuit, and upon releasing the pressure the said plate 11 will spring away from the plate 9, thus opening the circuit, and consequently cutting out the light. Should it be desired to hold the circuit closed, the keeper 15 is to be slid upon the spring-plate 11. At this time of course it will not be necessary to hold the plate 11 closed by a person's finger.

As the keeper 15 is in electrical connection with the plate 9, it is obvious that the current will pass through said keeper, the two plates and the wires to the electric cell and the lamp elements thus maintaining the light as long as desired.

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

An electric lamp, comprising a body portion, an electric cell arranged therein, a lamp in connection with one pole of the cell, a spring-plate on the body in electrical connection with the other pole of the cell, a keeper-plate mounted to slide on the body for engaging with the spring-plate, and an electrical connection between the keeper and lamp, the said spring-plate being adapted to close the circuit independently of the keeper, substantially as specified.

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

WILLIAM McCONNELL.

Witnesses:

A. NIESS,

F. CHAMPION SAUTER.