

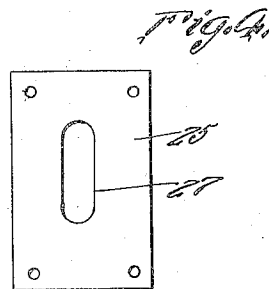
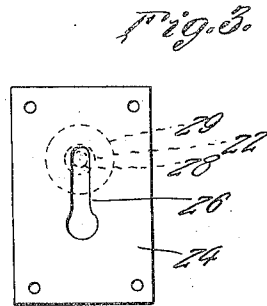
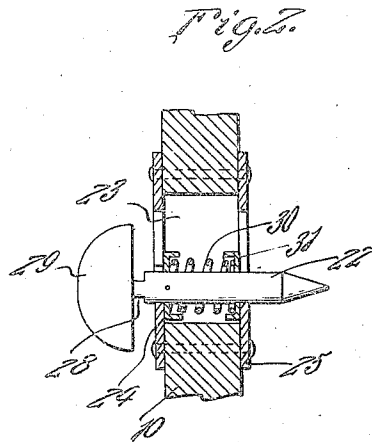
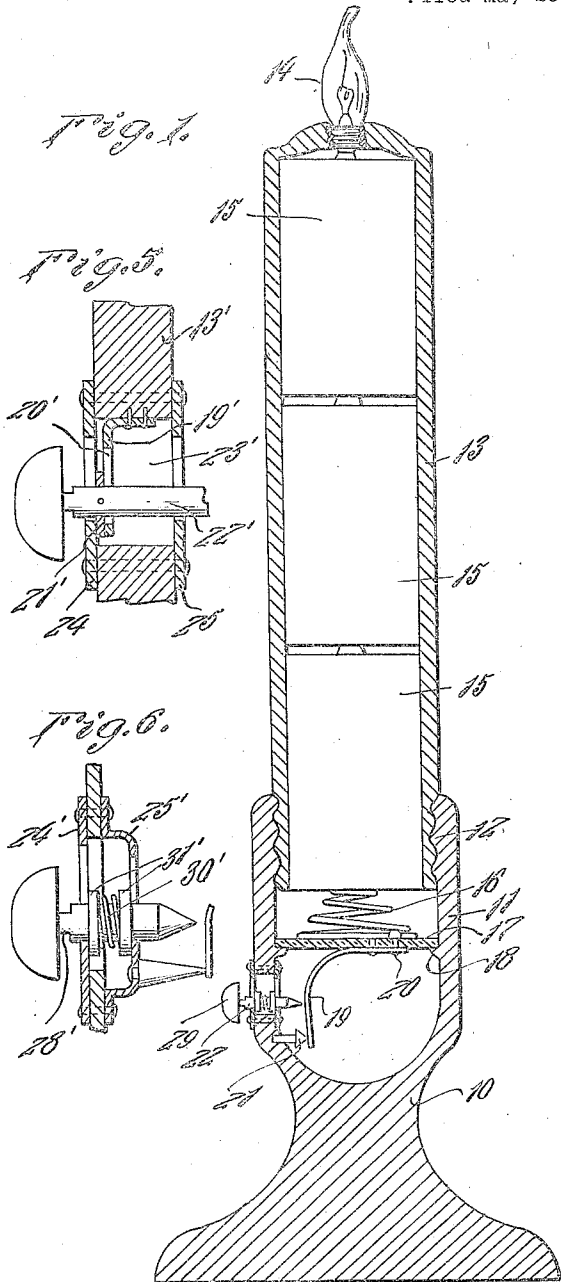
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1,597,609

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BATTERY LAMP

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UNITED STATES PATENT OFFICE.

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BATTERY LAMP.

Application filed May 25, 1925. Serial No. 32,817.

This invention relates generally to portable electric lamps, and contemplates the provision of a lamp designed to represent a candle, which may be used as a lamp for any and all purposes, and at the same time can be used to good advantage as an ornament, as it possesses an artistic appearance.

The nature and advantages of the invention will be better understood when the following detail description is read in connection with the accompanying drawing, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawing forming part of this application like numerals of reference indicate similar parts in the several views, and wherein:—

Figure 1 is a vertical sectional view through the invention.

Figure 2 is an enlarged detail sectional view showing how the movable element of the switch is mounted.

Figure 3 is a view of one of the slotted plates used in connection with said movable switch element.

Figure 4 is a similar view of another of such plates.

Figure 5 is a view similar to Figure 2 of a modified form of the invention.

Figure 6 is a similar view of another modified form of the invention.

The article forming the subject matter of the present invention comprises a base 10 which is formed to provide a socket like portion 11 which is interiorly threaded adjacent its upper end as at 12, and accommodates the threads on the lower end of a shell 13. These parts are designed to represent a candle as clearly illustrated in Figure 1, and it might be here stated that these parts may be constructed from any suitable material, and artistically designed to afford the invention a high degree of ornamental value. In other words, the invention is not only susceptible for use as a lamp as such, but is particularly useful as an ornament which can be arranged on dressers, buffets and places where such ornaments are usually arranged. The upper end of the shell 13 has associated therewith an electric light bulb 14 which, as clearly shown in Figure 1, is designed to represent a flame, which when lighted affords the appearance of the burning of a candle. Arranged within this shell 13 is a plurality of battery

cells 15, the lower cell being supported on a coiled spring 16, which in turn reposes upon a plate 17 of insulated material, this plate being arranged in the socket 11 resting upon an annular shoulder 18 forming part thereof. Secured to the under side of this plate 17 is a resilient contact element 19 forming part of the switch, the fastening element 20 utilized to secure said element to the plate 17, being also employed to provide a connection between the element and the coiled spring 17. This contact element 19 is curved, and by reason of its resiliency, normally occupies the position shown in Figure 1, wherein it will be noted that the said element rests against a stop pin 21 of insulated material. The other element of this switch, which of course is manually operated, is in the nature of a headed pin 22 which is mounted upon the socket 11 in the manner clearly shown in Figure 2.

In this figure it will be noted that the socket 11 is formed with an elongated slot 23, at the opposite sides of which is arranged spaced parallel plates indicated at 24 and 25 respectively. The slot in the plate 24 is of keyhole shape and indicated at 26, while the slot in the plate 25 is elongated and indicated at 27. It will be now noted that the pin 22 passes through these elongated slots, and is formed with a reduced portion 28 at a point adjacent the head 29. Surrounding the pin 22 between the plates 24 and 25 is a coiled spring 30, the opposed ends of which are received by channel shaped washers 31 which bear against the adjacent plates as clearly shown in Figure 2. Now, when the pin 22 is arranged at the corresponding lower ends of the slots 26 and 27, it is normally held in spaced relation to the contact 19, one of the washers 31 of course being secured to the pin 22 in any suitable manner. When it is desired to close the circuit to the electric light bulb 14 it is only necessary to move the pin 22 inwardly against the tension of the spring 30, into engagement with the contact 19. Then the pin 22 together with its associated parts is moved upwardly in said slots, allowing the shoulder 32 of the pin to bear against the plate 24 at the opposite sides of the reduced portion of the keyhole slots therein, which arrangement manifestly holds the pin 22 in contacting engagement with the element. The invention is not only useful for the purpose intended,

but is also simple in construction, and can be manufactured and sold at a nominal cost.

Figure 5 shows a modified form of the invention, wherein the movable contact 22' of the switch is normally maintained in its inactive position by means of a leaf spring 19' arranged in the slot 23' of the shell 13', in contra-distinction to the use of a coiled spring and spaced washers 31 as shown in the preferred form in Figure 2. The leaf spring 19' is slotted as at 20', while carried by the contact 22 is a washer 21' against which the spring 19' normally engages to hold the contact 22' in an inactive position.

In Figure 6, the invention is different from the preferred form shown in Figure 2 by forming the plate 25' with an offset intermediate portion to form what may be termed a container for the washer 31' and coiled spring 30', the purpose for which will be hereinafter described. The other plate 24' is formed with the key hole slot to cooperate with the reduced portion 28' of the movable contact in the manner above described.

While it is believed that from the foregoing description, the nature and advantages of the invention will be readily apparent, I desire to have it understood that I do not limit myself to what is herein shown

and described, and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What I claim is:—

An article of the class described including a base, a socket like portion extending upwardly from the base and having internal screw threads at its upper end, a shell threaded into the upper end of the socket member, an annular shoulder formed upon the inner wall of the socket midway of its ends, a plate of insulating material resting upon said shoulder, a coiled spring resting upon the plate, a plurality of battery cells arranged within the shell with the lowermost shell resting upon the said spring, a light bulb in the upper end of the shell having connection with the uppermost cell, a curved resilient contact having one end connected with the plate and coiled spring, a stop pin carried by the socket member against which the other end of the resilient contact normally bears and a circuit closure member carried by the socket and adapted to be moved into and out of engagement with the said resilient contact as and for the purpose specified.

In testimony whereof I affix my signature.

ANDREW MABON.