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AUTOMATIC CONTACT DEVICE FOR USE IN POCKET LAMPS

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Fig. 1

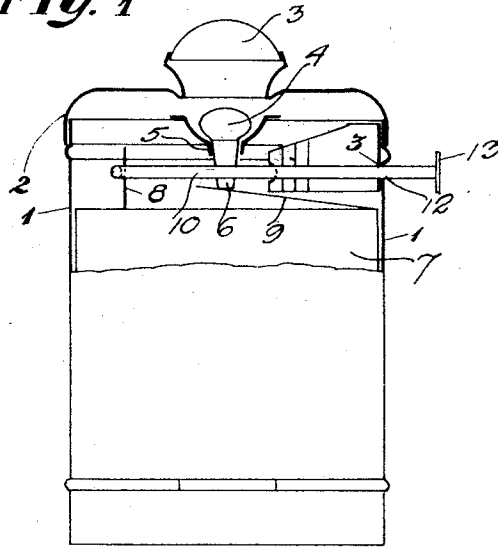


Fig. 2

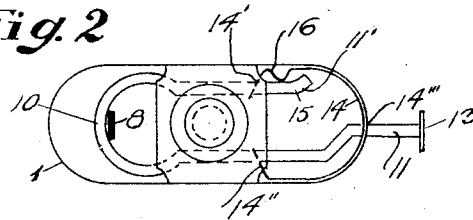
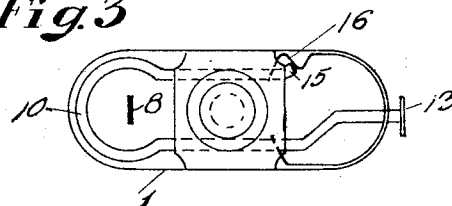


Fig. 3



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AUTOMATIC CONTACT DEVICE FOR USE IN POCKET LAMPS.

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This invention relates to a contact device for electric circuits in general, and more particularly, for pocket lamps.

A defect in contact devices of electric pocket lamps is that the circuit is often closed while the lamp is not in use. Furthermore, the devices now in use are often rather difficult to manipulate.

One purpose of the present invention is the elimination of the above defects, and the invention resides chiefly in having the contact member of such a type that, by reason of its own weight, it can move freely against the closure or contact point and, in similar manner, away from the contact point when the lamp is in a given position, thus closing and opening the circuit by its own weight. Further, the external part of the switch is connected with the contact members in such a manner as to move freely with this part, the direction of movement being away from, and toward the casing for respectively closing and opening the circuit. Hence, on external contact with an operating member, the contact member is moved back from the closure position and the circuit in the lamp is opened.

One embodiment of the invention is illustrated in the accompanying drawing wherein,

Fig. 1 is an elevation of a pocket lamp according to this invention with a portion of the casing removed.

Figs. 2 and 3 are plan views, showing the device with closed and with open circuit, respectively, the front lamp cover being removed.

The device includes a casing, with the usual front cover 2, and lens 3. Within the casing, and behind lens 3 is an incandescent bulb 4, fitted with contacts 5 and 6, for connection with a source of electric current 7. The current source 7 has leads 8 and 9, for connection with the contacts 5 and 6, respectively.

Positioned in the upper end of the casing, is a slidable switch 10, formed in an open loop, one end 11 of which is slidable in the casing at 12, and extends to the exterior thereof, to receive an operating button 13. In one side of casing 1, is a U-shaped spring

guide member 14, apertured at its two ends 14' and 14'' and at its central portion 14''', to slidably receive and guide switch 10 as shown in Fig. 2. The end 11' of switch 10, is cut off obliquely as at 15, to coact with a looped spring click portion 16 formed near the end 14' in the guide 14.

The switch 10 is sufficiently heavy to automatically operate, the switch sliding inwardly and outwardly of the casing, under the influence of its own weight, when held in position for such operation.

If desired to hold the switch in circuit opening position, so that it will not operate automatically under its own weight, the switch is pushed back beyond click member 16 to the position shown in Fig. 3 whereupon the click 16 snaps over the end 15 of switch 10, and holds the switch in open position, until it is again positively moved from such position. Normally, when operated by its own weight to opening position the switch member is held from passing back of the click member by click 16, bearing against the curved portion of end 11' of switch 10. With the switch in circuit closing position as shown in Fig. 2, a circuit is formed from the source 7, through contact 8, switch 10, casing 1, contacts 5 and 6, and member 9, back to the source.

Having described my invention, what I claim is:—

A contact device for pocket lamps, comprising, a casing, an electric circuit therein, and a switch in the circuit, the switch being weighed, whereby to freely move under the sole influence of its own weight, when held in proper positions, for opening and closing the circuit, said switch being supplied with an operating button exterior of the casing, for manual operation when desired, said switch moving inwardly of, and outwardly from, the casing, for breaking and making the circuit respectively, and means coacting with the switch for locking the switch against automatic movement upon positive operation of the switch by the button to its innermost position in the casing.

In testimony whereof I have signed my name to this specification.

FRANS ROBERT PÄIVIÖ.