

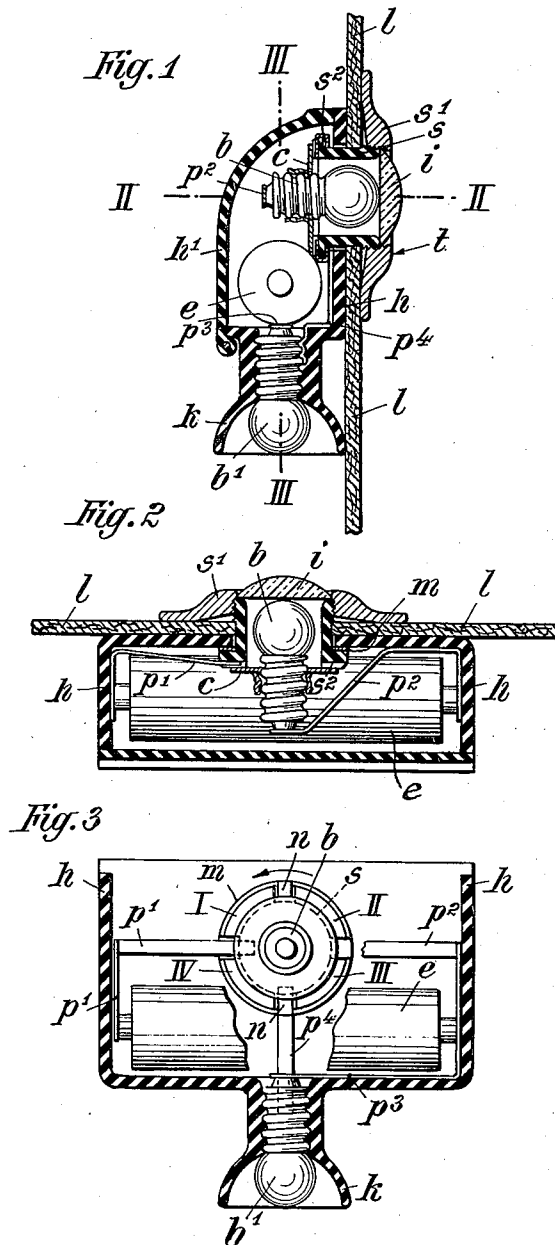
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A. CONRAD

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ILLUMINATING DEVICE FOR PORTABLE RECEPTACLES

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Inventor
A. Conrad

By
Glascopp Downing & Seabolt
Attorneys.

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ILLUMINATING DEVICE FOR PORTABLE
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4 Claims. (Cl. 240—6.4)

This invention relates to an illuminating device intended to be used especially in connection with ladies' bags, but also with other portable receptacles, such as boxes and trunks, portfolios, and the like.

The device is so designed that of two incandescent lamps, one is intended to illuminate the neighbourhood outside the bag and either lamp can be switched on by means of a change-over switch combined preferably with a rosette or another decorative member attached to one of the outer surfaces of the respective article. The lamp intended for the interior illumination is housed in a casing detachably secured to one of the inner walls of the bag and the other lamp extends through an aperture so as to be able to throw its light outwardly. Said casing contains also the change-over switch, as well as a dry battery element for supplying the lamps with current.

The invention is illustrated diagrammatically and by way of example on the accompanying drawing in which the illuminating device is shown applied to a lady's bag and Figure 1 is a vertical transverse section through the entire arrangement and combination of the parts thereof, Figure 2 is a horizontal section in the line II—II of Fig. 1, and Figure 3 a vertical section in the line III—III of Fig. 1.

Referring to Fig. 1, there is shown at one of the side walls of the bag, to the inner surface of which a casing *h* is attached which is normally closed by a cover *h*¹. Enclosed in said casing are the dry battery element *e*, the two incandescent lamps *b* and *b*¹, and the switch *t*, by means of which the one or the other lamp can be switched into the circuit of the battery element. The switch consists of a sleeve *s* penetrating the wall *l* of the bag and of an outer ring *s*¹ designed as an ornamental rosette or the like and being knurled at its rim and serving at the same time for holding a lens *i* closing the sleeve *s* and covering the lamp *b*. At the inner end of the sleeve is a flange *s*² having four circularly curved cams I, II, III and IV forming between them four notches. Two of the notches located diametrically opposite one another are engaged by lugs *n* forming parts of an annular sheet-metal disk *m* situated between the flange *s*² and the neighbouring wall portion of the casing *h*. This disk *m* engages a sheet-metal tongue *p*⁴ which is conductively connected with the socket of the lamp *b*¹. This socket projects downwardly beyond the lower wall of the casing and embraces the lamp *b*¹ with a cup *k*. Two oppositely lo-

cated curved cams, for instance, I and III, are comparatively flat, whereas the other two II and IV are higher, and the ends coming first in the direction of rotation of the switch (see the arrow in Fig. 3) are somewhat oblique, whereas the other or rear ends are steeply sloping, whereby the sleeve *s* can be turned by the rosette only in the direction of said arrow, while on turning it in the reverse direction a thread connecting the sleeve *s* and the rosette *s*¹ with one another will be unscrewed.

In the position of the switch as shown in Fig. 3 a sheet-metal tongue *p*¹ engages the notch between the curved cams I and IV. The tongue *p*¹ is conductively connected with the left-hand pole of the battery element. The right-hand pole of the battery *e* is conductively connected with a tongue *p*², which engages the middle contact of the lamp *b*. In the position shown in Fig. 3 the circuits of both lamps are open. If the switch is turned by one fourth of a circle the lug *n* which had been the uppermost one arrives below the tongue *p*¹. Owing to the elevation of the cam I being only slight the tongue *p*¹ is only slightly lifted by said cam so that the tongue *p*¹ does not contact with a disk *c* provided on the socket of the lamp *b*. In this position the circuit of the lower lamp *b*¹ is closed through the left-hand pole of the battery element, the tongue *p*¹, the lug *n*, the disk *m* and the tongue *p*⁴ which engages the rear surface of the disk *m*, the socket of the lamp *b*¹, the middle contact of the lamp *b*¹ and the tongue *p*³ which is connected to the right-hand pole of the battery element.

If the switch is further turned, the high elevation cam II arrives below the tongue *p*¹ whereby first the contact between this tongue and the lug *n* is broken. Besides, the tongue *p*¹ engages the disk *c* and thereby the lamp *b* is inserted in the battery circuit. The disk *c* is provided with a short threaded neck screwed upon the socket of the lamp *b*.

If the switch is still further rotated until the tongue *p*¹ engages the next notch, both lamps are disconnected from the battery element *e*. Only on turning the switch again by 90° will a lug *n* of the disk *m* arrive below the tongue *p*¹ whereby the circuit containing the lower lamp will be closed, whereas if the rotation of the switch is still continued a high elevation cam (IV) arrives below the tongue *p*¹, whereby the lamp *b*¹ will be disconnected from the battery element *e* and the lamp *b* will be connected therewith.

I claim:

1. An illuminating arrangement for portable receptacles comprising, a casing within the receptacle and secured thereto, a battery element within the casing, a rotatable sleeve extending from the casing through a wall of the receptacle, an incandescent lamp bulb mounted within said sleeve, a second incandescent lamp bulb carried by the casing for illuminating the interior of the receptacle, switch means within the casing actuated upon rotation of said sleeve, and circuits extending from the battery element to the incandescent lamp bulbs through said switch means whereby the lamp bulbs may be energized by rotating said sleeve to actuate the switch means.

2. An illuminating arrangement for portable receptacles comprising, a casing detachably mounted within the receptacle and secured thereto, a battery element within the casing, a rotatable sleeve extending through a wall of the casing and through a wall of the receptacle, a lamp bulb mounted within the casing to project light rays outwardly through the sleeve, a lens closing the sleeve outside the receptacle, an ornamental member secured to the sleeve outside the receptacle for rotating the sleeve, a second lamp bulb mounted on the casing for illuminating the interior of the receptacle, a switch within the casing driven by rotation of said sleeve, and circuits extending from the battery element to said lamp bulbs through said switch whereby the lamp bulbs may be energized by rotating said ornamental member to complete the circuits to said lamp bulbs from the battery element.

3. An illuminating device for portable receptacles comprising, a casing within the receptacle and removably attached thereto, a battery within the casing, a rotatable sleeve extending from the casing through a wall of the receptacle, a lamp bulb mounted to project light rays through the sleeve, an electrical conductive disk engaging a terminal of the lamp bulb and supporting the same in said sleeve, a conductor engaging a second terminal of the lamp bulb and connected to the battery, a flexible conductor connected to the battery terminating adjacent said disk, a cam carried by said sleeve for moving the flexible conductor into engagement with said disk whereby the lamp bulb may be energized upon rotation of said sleeve.

4. An illuminating arrangement for a portable receptacle comprising, a casing within the receptacle and secured thereto, a battery element within the casing, a rotatable sleeve extending through a wall of the casing and a wall of the receptacle, means outside of said receptacle for rotating the sleeve, a lamp bulb carried by the casing for illuminating the interior of the receptacle, a conductive disk carried by said sleeve, a conductor extending from a terminal of the lamp and engaging said disk, a second conductor extending from another terminal of the lamp engaging a terminal of the battery element, a flexible conductor extending from another terminal of the battery element and terminating adjacent said disk, and a cam electrically connected to said disk for engaging said flexible conductor upon rotation of the sleeve.

ALFRED CONRAD.