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PORTABLE READING LAMP

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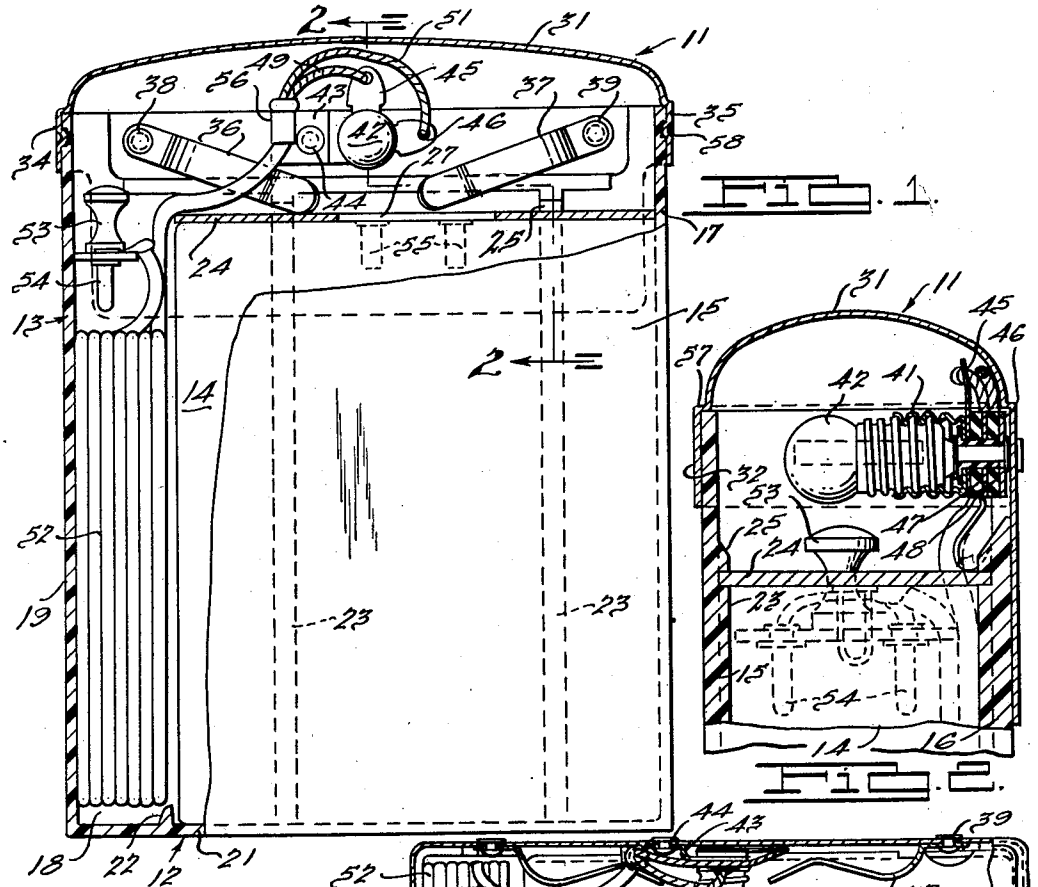


Fig. 1.

Fig. 2.

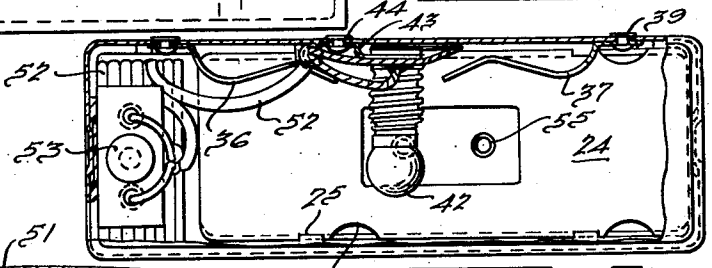


Fig. 3.

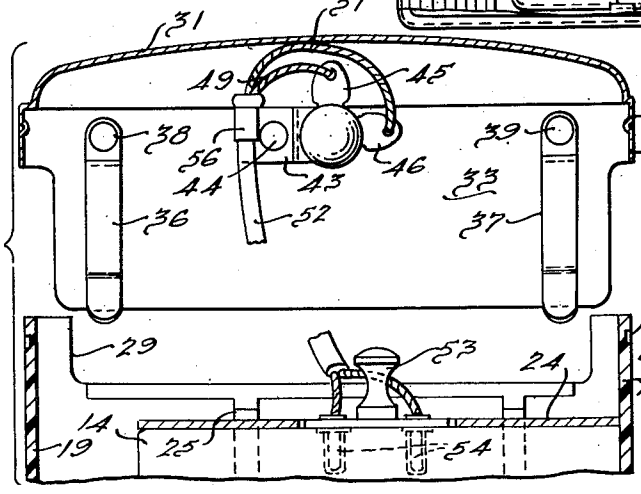


Fig. 4.

INVENTOR.
Alfred H. Haberstump.
BY
Harness, Dickey & Pierce
ATTORNEYS.

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PORTABLE READING LAMP

Alfred Henry Haberstump, Detroit, Mich., assignor to David D. La Vine, Grosse Pointe, Mich.

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2 Claims. (Cl. 240—6.4)

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This invention relates to lamps, and especially to portable lamps adapted for attachment to books and similar articles.

It is an object of this invention to provide a portable reading lamp of the class described which may be quickly and easily attached to a book or similar article in such position that the reader will have adequate light directly on the printed matter without interfering with the manipulation of the pages and without disturbing other persons in the vicinity.

It is a further object to provide a portable lamp unit as described which requires no outside power source but in which the lamp and its power source form a self-contained unit when not in use with no exposed wires and with the lamp bulb protected from breakage.

It is a further object to provide a portable lamp as described in which the cover for the self-contained unit also serves as a mounting means and as a reflector when the lamp is in use.

In the drawings:

Figure 1 is an elevational view of the unit shown when not in use, with parts being broken away for clarity;

Fig. 2 is a cross-sectional view taken along the line 2—2 of Fig. 1;

Fig. 3 is a plan view of the unit with the parts being broken away for clarity; and

Fig. 4 is an elevational view of the cover assembly and a portion of the container assembly shown in cross section, the assemblies being in their separated condition.

The unit comprises, in general, a cover assembly 11 and a container assembly 12 which, when the device is not in use, are in interfitted relation as shown in Fig. 1. The container assembly comprises a casing 13, preferably of rectangular shape, which may be constructed of plastic or similar insulating material. Resting within the casing is a battery 14, the dimensions being such that the battery fits between front and rear walls 15 and 16 respectively of the casing and against one side wall 17. A cable storage space 18 is provided between the battery and opposite side wall 19. The bottom 21 of the container may have integral therewith an upstanding ridge 22 to retain the lower end of the battery in its proper position, and walls 15 and 16 may be provided with elongated raised portions 23 to hold the adjacent sides of the battery flush therebetween. A battery retaining plate 24 is provided immediately above the battery to retain it against upward movement. This retaining plate is held in position by means of lugs 25 on the inner

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surfaces of casing walls 15 and 16, and the retaining plate is provided with recessed portions 26 so that it may be removed from its locked position by a leftward sliding movement as shown in Fig. 3. The plate is also provided with an apertured portion 27 for access to the battery terminals. Recesses 28 are provided in the side walls adjacent the upper edge of casing 13 to retain the cover unit when in its inoperative position, as will be later described. The upper edge of rear wall 16 is further provided with an elongated recessed portion 29 for receiving portions of the cover assembly.

Cover assembly 11 is movable between an inoperative position surmounting the casing and an operative position attached to a book or similar article. This assembly comprises a shell-like member 30 having a dome 31 of slight downward concavity, front and rear walls 32 and 33 respectively, and side walls 34 and 35. Wall 33, of greater height than the other walls, has pivotally mounted thereon a pair of clips 36 and 37 by such means as rivets 38 and 39. These clips are preferably of springlike material and are movable between an inoperative position as shown in Fig. 1 and an operative position as shown in Fig. 4, substantially normal to the dome 31 and in which the cover of a book or similar article may be firmly engaged between the clips and wall 33, the wall being in underlying engagement with the article. Intermediate the two clips is a lamp bulb socket 41, which holds a bulb 42 in a position spaced below the dome 31. The socket may be held in place by means of a bracket 43 and rivet 44. Plates 45 and 46, separated by insulators 47 and 48, serve to connect the lamp socket to electrical conductors 49 and 51 respectively. These conductors are part of a cable 52 to the other end of which is attached a plug having a handle 53 and prongs 54 for insertion in battery terminals 55. Bracket 43 may be provided with a cable grip 56 for preventing strain at the ends of the conductors. Cover member 30 is further provided with a shelf 57 between the dome 31 and the walls, the shelf being adapted to rest on the upper edge of the casing when the two assemblies are united. Side walls 34 and 35 are provided with projections 58 which snap into recesses 28 when the cover member is placed on the casing.

The device, when in its inoperative position, will be assembled substantially as shown in Fig. 1. As will be seen when in this condition, cable 52 will be coiled and will reside within space 18 adjacent the battery, and the plug will also be

contained within this space. Cover member 30 surmounts the casing in such manner that the four walls thereof surround the upper portion of the casing, thus enclosing the battery completely and protecting the lamp bulb 42, as well as the other portions of the device, from damage. Clips 36 and 37 are in their upwardly folded position, and recessed portion 29 at the upper end of casing wall 16 will prevent interference between the casing and the clips or the lamp socket when the cover is put on.

When it is desired to use the device for reading or similar purposes, the cover assembly 11 is removed from container assembly 12, clips 36 and 37 are swung downwardly, and the cover assembly is mounted on the cover of the book or other article by means of the clips, as heretofore described. Cable 52 and its attached plug are removed from space 18 by means of handle 53, and prongs 54 of the plug are inserted in terminals 55 of the battery, thus energizing the lamp. It will be observed that in this condition the container assembly may be remotely positioned from the reader if desired. It will also be noted that concave dome 31 of the cover member 29 will serve as a reflector for the reading lamp, and that front and rear walls 32 and 33 and side walls 34 and 35 will serve to confine the rays from the lamp to the immediate vicinity of the printed matter, thus preventing disturbance of persons who may be in the vicinity.

What is claimed is:

1. In a device of the class described, a casing of rectangular form for supporting an electric power source, a cover for said casing made from sheet metal having a continuous central dish-shaped portion presenting inwardly toward the casing when the cover is attached thereto, a downwardly extending flange about the dish-shaped portion for receiving the casing, the flange at one side of the cover projecting a substantial distance beyond the flange on the other three sides thereof, a receptacle for a lamp supported on the extended flange, a cable connecting the lamp to the power source within the casing, and a pair of fingers pivoted on said extended flange for securing the cover to a book in position to have the lamp within the cover direct the light thereonto, said cover being releasably attached to said casing for completely hiding said fingers, lamp and cable from view.

2. In a lighting device for illuminating the pages of a book, comprising a rectangular casing for supporting an electric power source, a cable also supported within said casing, a cover of rectangular shape having a continuous central portion from which a flange extends downwardly on all sides for extending over the open end of the casing forming a closure therefor, the flange on one side of the cover being of substantial length as compared to the length of the flange on the other three sides thereof, a lamp socket secured to said extended flange, a lamp in said socket, connecting means between one end of said cable and said socket in a manner to be in series with the filament of said lamp, and a pair of fingers pivotally secured to said extending flange by which the cover may be secured to a book, said fingers and lamp being enclosed within the casing when the cover is applied thereto.

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