

Oct. 3, 1950

L. P. McDOWELL
PORTABLE BOOK LIGHT
Filed Dec. 11, 1947

2,524,461

Fig. 1.

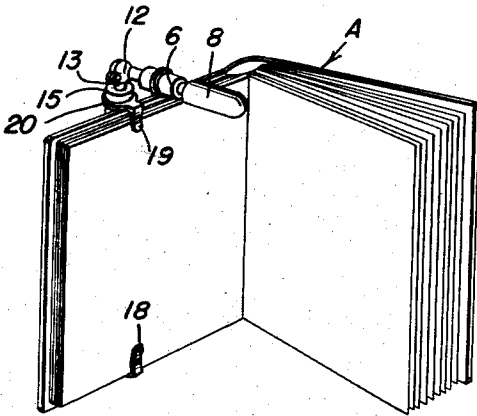


Fig. 2.

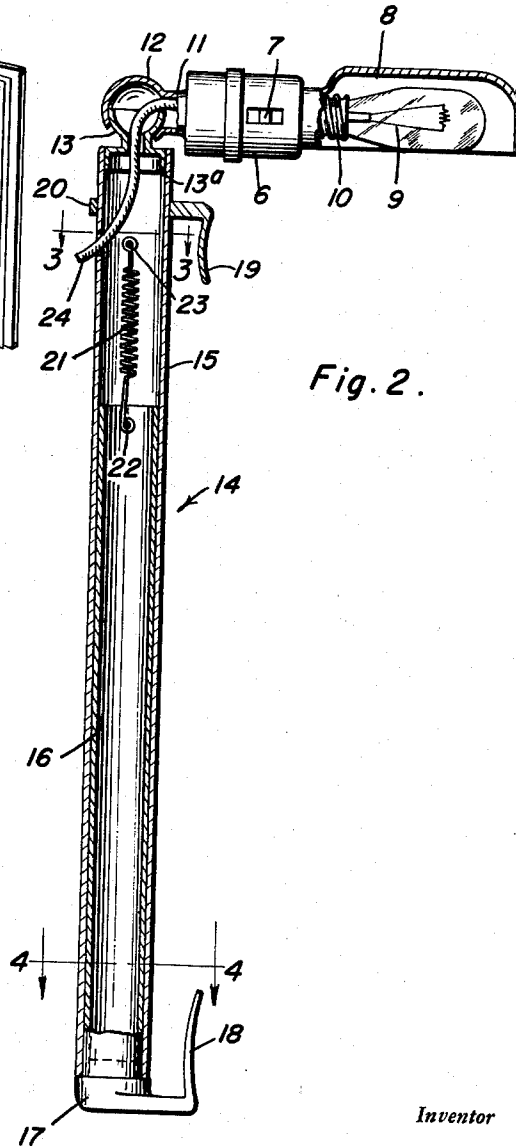


Fig. 3.

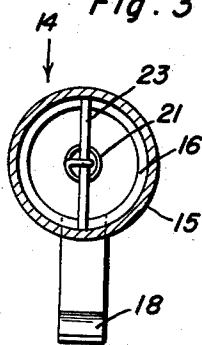
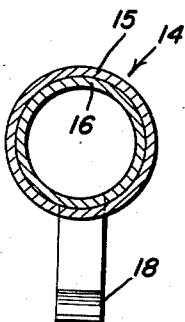


Fig. 4.



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UNITED STATES PATENT OFFICE

2,524,461

PORTABLE BOOK LIGHT

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Application December 11, 1947, Serial No. 790,952

4 Claims. (Cl. 240—52.1)

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The present invention relates to a novel and improved light which is especially, but not necessarily, adapted to be detachably mounted on a bound or an equivalent book in such a manner as to provide sufficient but limited illumination for night reading or wherever and whenever insufficient natural light makes reading difficult and uncertain.

More particularly, it is an object of the invention to provide a simple, practical and economical light with a relatively small bulb or lamp such as will prove beneficial to those otherwise deprived of satisfactory reading because of improper lighting, or where bright lights are forbidden, such as in hospital wards, dormitories, sick rooms and the like.

Another object of the invention is to provide a light of the type described which is characterized by a readily applicable and removable clamping device with lighting facilities mounted on one end of same, the lighting facilities being angularly adjustable to focus the beams directly on the desired spot, thus permitting the user to utilize an individual light, limited in character, and without appreciably disturbing others in the same room or area.

A further object of the invention is to provide a structure of the type shown and described which may be employed as a so-called miniature night light, where a nominal source of illumination is thought to be necessary by those requiring limited illumination and in an effort to minimize accidents.

Other objects and advantages of the invention will become more readily apparent from the following description and the accompanying illustrative drawing.

In the drawing, wherein like numerals are employed to designate like parts throughout the views—

Figure 1 is a perspective view showing a portable readily applicable and removable light structure constructed in accordance with the invention and illustrating same applied to a hard-back book;

Figure 2 is an enlarged view partly in section and partly in elevation illustrating all of the details of construction; and

Figures 3 and 4 are enlarged cross sectional views on the lines 3—3 and 4—4 of Figure 2, looking in the direction of the arrows.

Referring now to the drawing and particularly to Figure 2 it will be seen that the numeral 6 designates a socket, of any appropriate construction, provided with an "on" and "off" switch 7

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and provided at one end with an elongated reflector-type shade 8 for the electric lamp or bulb 9, the latter having the usual screw-type plug 10 which fits into the socket provided therefor. The left hand end of the socket 6 is provided with a tubular extension 11 terminating in a part-spherical shell 12 forming part of a universal joint construction. Shell 12 is frictionally mounted on a coaxing ball joint member 13 carried by a cap 13a and fitted in the upper end of the clamp equipped holder means 14. The latter comprises an outer tube or sleeve 15 into which the aforementioned plug or cap 13a is securely fastened. A coaxing inner sleeve 16 telescopes into the outer sleeve and the sleeve 16 is provided upon its lower end with a head 17, suitably shouldered and provided with a book engaging and retaining hook 18. A complementary hook 19 is provided on the upper portion of the holder 14 and is secured by a ring or band 20 to the sleeve 15. A coiled spring 21 is provided and is anchored at one end on a pin 22 carried by the sleeve 16 and a second pin 23 carried by the sleeve 15. Finally, the numeral 24 denotes a current supply cord which may be provided with an appropriate screw type or prong equipped plug (not shown) for purposes of detachable connection with a wall or floor socket. It might be mentioned in this connection that it is within the purview of the invention to utilize dry cell batteries, if necessary, where electricity is not available.

As will be clear from the disclosure, the invention is characterized by a double hook equipped clamping and attaching means 14 which is readily applicable to a hard-back book as at A in Figure 1. The device 14 is substantially self-adjusting and will fit hard-back books. The spring is sufficient to maintain tension on the hooks 18 and 19 to retain same in place as illustrated in Figure 1. It is within the purview of the invention to vary the proportions of parts, obviously, to provide a larger or smaller clamping device, or a larger bulb and reflector for said bulb.

After the book light is in place, the light guard or reflector 8 may be angled and adjusted to proper place by moving or swinging the reflector to the desired position, this because the reflector is rotatably mounted in the socket 6 and because the socket 6 is attached by said universal joint to the clamping device 14.

A careful consideration of the foregoing description in conjunction with the invention as illustrated in the drawing will enable the reader

to obtain a clear understanding and impression of the alleged features of merit and novelty sufficient to clarify the construction of the invention as hereinafter claimed.

Minor changes in shape, size, materials and rearrangement of parts may be resorted to in actual practice so long as no departure is made from the invention as claimed.

Having described the invention, what is claimed as new is:

1. A detachable and portable book illuminating lamp of the class shown and described comprising a holder embodying inner and outer telescopically connected snug fitting sleeves, a head on the outer end of one sleeve abutting the other sleeve and provided with a book engaging hook, a hook attached to the outer end portion of the latter sleeve, cross pins mounted rigidly in said sleeves, a coiled spring within the sleeves attached at opposite ends to said cross pins, a lamp socket including a switch, a lamp mounted in said socket, a lamp reflector carried by said socket cooperable with said lamp, and a ball and socket connection between the lamp socket and one end of one of said sleeves.

2. A readily applicable and removable reading lamp for use in association with a book or other support comprising a pair of inner and outer telescopically connected cylindrical sleeves with the inner sleeve fitting snugly within the outer sleeve, said inner sleeve being provided at its outer end with a head of a diameter equal to the external diameter of the outer sleeve and providing a shoulder normally abutting the coacting end of said outer sleeve, said head being provided with a hook with the bill portion of the hook substantially parallel to the adjacent end portions of said inner and outer sleeves, a complementary hook fastened on the outer end portion of the outer sleeve and in alignment with the first-named hook with its bill parallel to said outer sleeve, a lamp, socket and shade assembly, a ball and socket means interposed between said

assembly and the adjacent outer end portion of said outer sleeve, and spring means housed within said sleeves and connected to the respective sleeves for drawing the hooks normally toward each other.

3. A portable reading lamp of the type shown and described comprising an open ended cylindrical outer sleeve, an inner complementary sleeve telescopically fitted into one end portion of said outer sleeve and provided with a book engaging hook, internally arranged spring means interconnecting coacting end portions of said sleeves, a second book engaging hook mounted on the outer sleeve and coacting with the first-named hook, a fitting embodying a cap plugged into the remaining open end of said outer sleeve and including a ball jointing member, a shade equipped lamp mounting including a socket forming shell operatively mounted on said ball jointing member.

4. The structure specified in claim 3, together with a current conducting cord connected with said lamp mounting and extending through said shell, said fitting being centrally apertured and said cord passing through the fitting, and said sleeve having an opening adjacent the fitting through and beyond which said cord passes.

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