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G. COHEN

PORTABLE LAMP

Filed Dec. 1, 1925

Fig. 1.

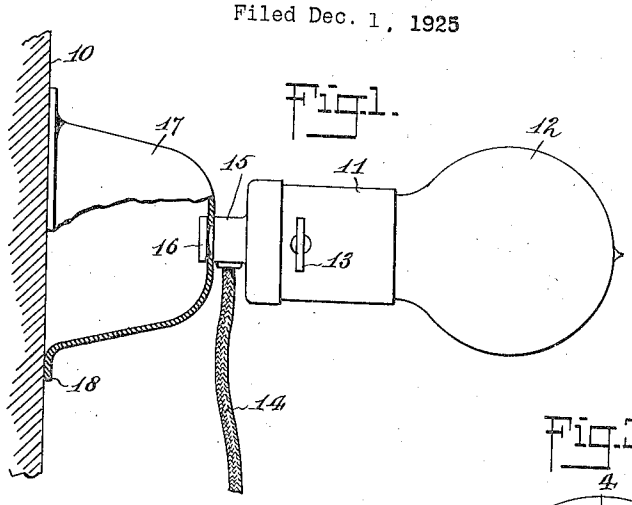


Fig. 3.

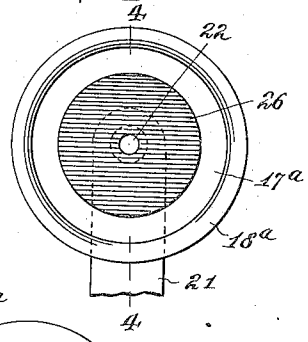


Fig. 2.

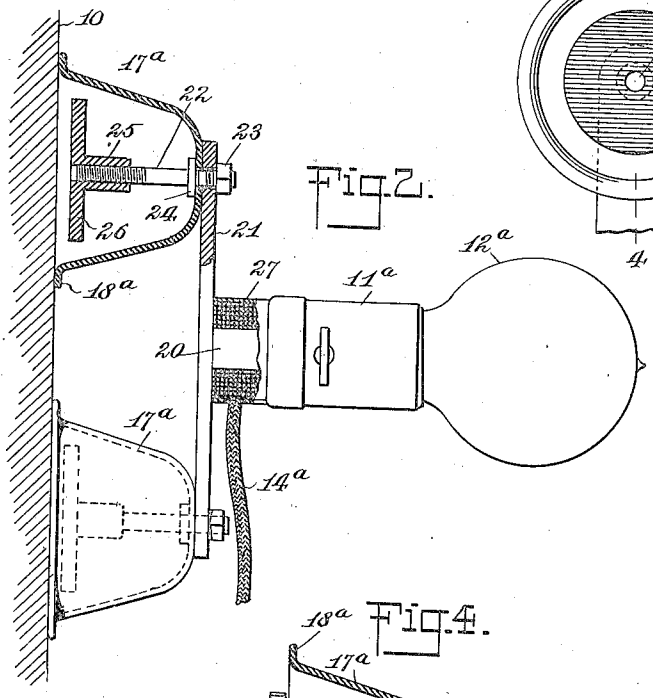
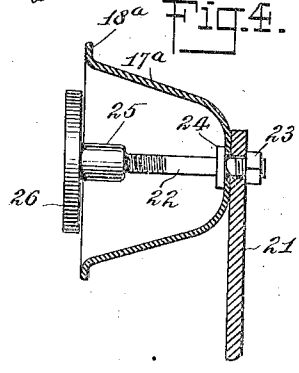


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

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PORTABLE LAMP.

Application filed December 1, 1925. Serial No. 72,546.

This invention relates to a portable lamp, and is particularly concerned with means for supporting the lamp upon any flat wall surface without the necessity for using nails, screws or other forms of securing devices. More specifically the lamp support is in the nature of a suction cup carrying the lamp and adapted to be attached to a wall in the usual manner.

A further feature of the invention is the provision of a lamp support in which suction cups and magnetic feet are used in combination, and either the magnetic means or the vacuum means may be optionally used for supporting the lamp. By virtue of this combination, the lamp may be supported upon any ordinary flat surface by the vacuum cup means, and upon any metallic surface by the magnetic means.

Objects of the invention are to provide a portable lamp of this character which will be of simple, practical construction, which will be rugged, durable and efficient in use, and which may be manufactured with comparative economy.

With the above noted and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter set forth and pointed out in the claims. The invention may be more fully understood from the following description in connection with the accompanying drawings, wherein—

Fig. 1 is a view in side elevation showing a lamp embodying the invention supported in operative position, the suction cup being broken away and in section for clearness.

Fig. 2 is a view partly in section and partly in elevation illustrating a modified form of supporting means in which magnetic feet and vacuum cups are combined, and may be optionally used.

Fig. 3 is a bottom plan view of one of the supporting elements of Fig. 2.

Fig. 4 is a transverse sectional view on the line 4—4 of Fig. 3.

Referring first to Fig. 1 of the drawings, 10 indicates a supporting wall to which the improved portable lamp is to be removably secured. 11 represents the lamp socket carrying a bulb 12. The socket carries the usual snap switch 13 and is connected through a reduced extension 15 at its rear end with an electrical conductor 14. 16 represents a clamping screw adapted to be screwed into the rear end of the extension 15, and coacting therewith to clamp the intermediate portion of a vacuum cup 17. This vacuum cup may be of conventional construction, including the usual outwardly presented flange 18 at its mouth.

The manner of attaching such a cup to a wall is well understood; it being merely necessary to compress the cup and expel most of the air therefrom. Whereupon, when the cup is released, the differential air pressures on the inside and outside thereof will retain the flange 18 snugly against the wall 10. The size of the vacuum cup will depend altogether upon the load which it is to carry, and for supporting an ordinary lamp bulb and socket, such as is shown in Fig. 1, the cup need not be of cumbersome size.

In Fig. 2 I have illustrated a modification wherein the lamp bulb 12^a is mounted in a socket 11^a, the latter being connected by an iron post 20 to a cross bar 21. The cross bar 21 is of paramagnetic material, and carries at its ends magnetizable screws 22 held in place by nuts 23 and collars 24. The intermediate portions of suction cups 17^a are clamped between the collars 24 and the under face of the cross bar 21. Threaded sleeves 25 engaged with the screws 22 carry magnetic discs or feet 26 adapted to be retracted within the vacuum cups as in Fig. 2, or to be projected beyond the plane of the cup flanges 18^a as shown in Fig. 4.

The lead wire 14^a for the lamp 12^a is connected to a magnetizing coil 27 which encircles either the post 20 or if desired, the bar 21. This coil may conveniently be in series with the lamp 12^a.

If the vacuum cups 17^a are to be used for supporting the lamp 12^a, the discs 26 are rotated to retract them inwardly on the screws 22, and the device may be applied to the wall 10 in the manner above described.

For attaching a lamp to a metallic surface, the discs or feet 26 are rotated to project them outwardly to the position of Fig. 4. When the switch is thrown to light the lamp, the lamp current flows through the energizing coil 27 completing a magnetic circuit through the bar 21, screws 22, feet 26, and the portion of the metallic support which is disposed between the feet, whereby the lamp is magnetically supported and held in proper position.

It is to be understood that the shape of

the members 26 is subject to considerable variation, it merely being necessary that they may be movable to inoperative position to permit the proper application of the vacuum cups 17ª when desirable.

Various changes and alterations might be made in the general form and arrangement of parts described, without departing from the invention. Hence I do not wish to limit myself to the details set forth, but shall consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim—

1. A portable lamp including a lamp socket, a supporting frame for the socket, suction cups at the ends of the frame, magnetic wall engaging means at the ends of the frame, said suction cups and magnetic means being telescopically adjustable relative to each other, whereby either the suction cups or the magnetic means may be used for supporting the lamp.

2. A portable lamp including a lamp socket, a U-shaped frame, to the intermediate portion of which the socket is secured, magnetic feet adjustable on the legs of the frame, suction cups encircling the legs of the frame, and means for establishing a magnetic circuit through the frame.

3. A portable lamp including a lamp socket, a U-shaped frame, to the intermediate portion of which the socket is secured, magnetic feet adjustable on the legs of the frame, suction cups encircling the legs of the frame, means for establishing a magnetic circuit through the frame, said magnetic feet being formed with sleeve portions screw-threadedly adjustable on the legs, whereby the feet may be projected beyond the plane of the suction cups, or may be retracted into the suction cups.

4. A portable lamp structure including a U-shaped frame, means for mounting a lamp on said frame, magnetic feet adjustable on the legs of the frame, suction cups encircling the feet, and within which the feet are adapted to be retracted, and an energizing coil for establishing a magnetic circuit through the frame.

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