May 8, 1928.

D. C. LINK

1,668,566

ULTRA VIOLET LAMP APPARATUS

Filed April 14, 1926

2 Sheets-Sheet 1

Fig. 2.

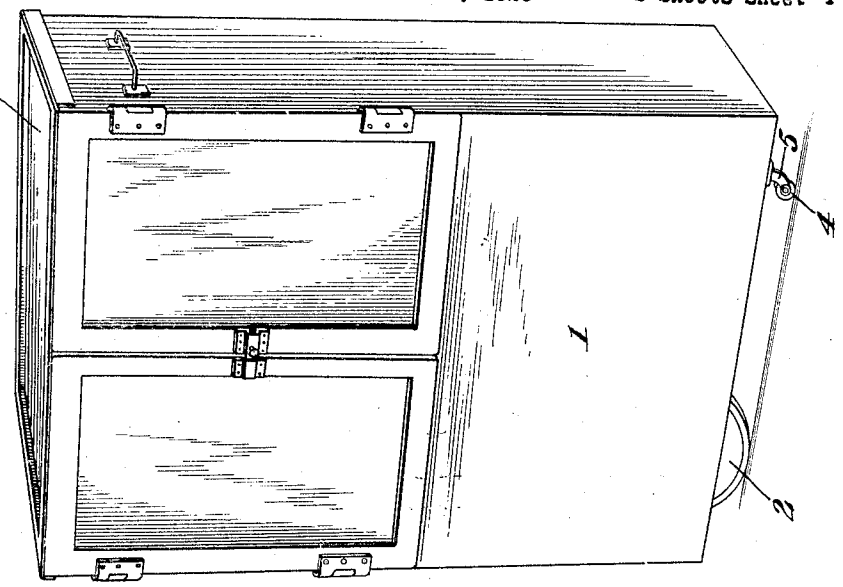
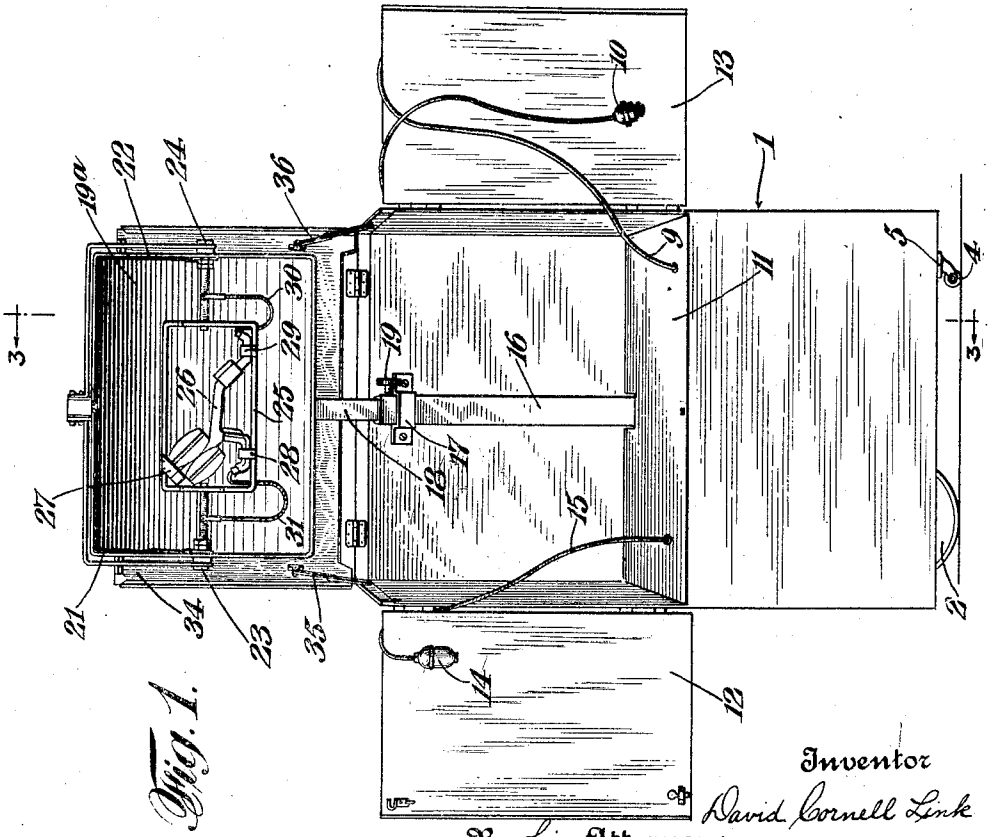


Fig. 1.



Inventor

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By his Attorneys

Prindle, Wright, Neal & Bean

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Fig. 4.

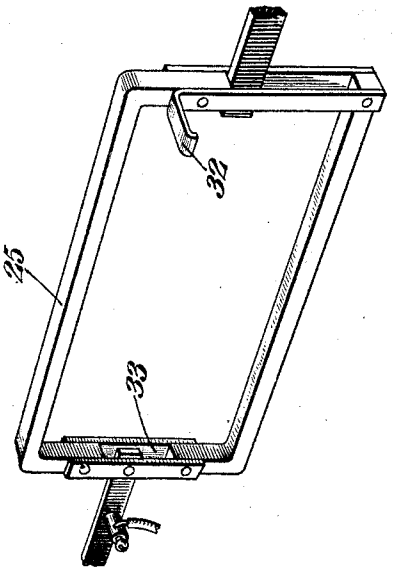
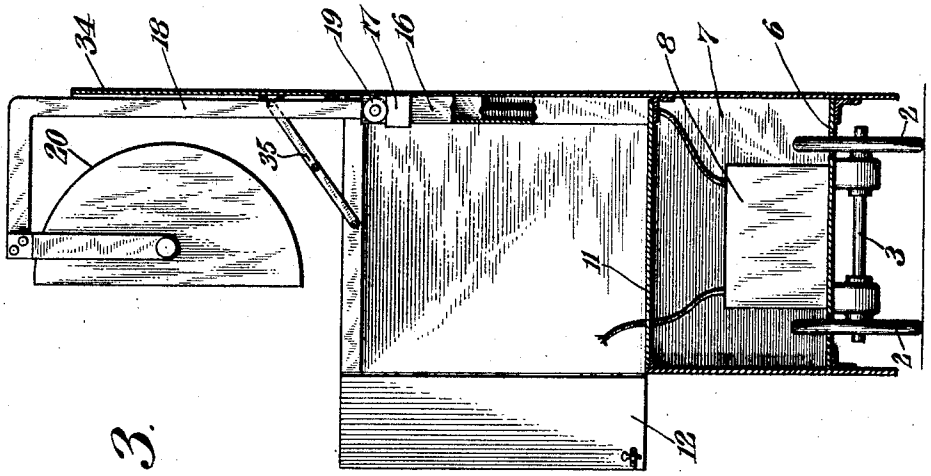


Fig. 3.



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Patented May 8, 1928. 1,668,566

UNITED STATES PATENT OFFICE.

DAVID CORNELL LINK, OF LAWRENCE, NEW YORK.

ULTRA-VIOLET LAMP APPARATUS.

Application filed April 14, 1926. Serial No. 101,849.

My invention relates particularly to an apparatus equipped with means for emitting rays, as, for example, ultra violet rays.

The object of the invention is to provide an apparatus of the above character which is capable of wider use than in the case of previous ultra violet lamp equipments. Previously, such apparatus was adapted for use in doctors' offices or in hospitals, and the equipment provided for this purpose was excessively heavy, awkward to use, and extremely fragile. The object of my invention is to provide an apparatus of this kind which may be used by the patient himself, and which is so constructed that the delicate electric lamp, etc., used therewith is protected from damage while in use, as well as when not being used. A further object is to arrange the electrical equipment therein in such a manner that when not in use it is entirely protected from view. Further objects of my invention will appear from the detailed description of the same hereinafter.

While my invention is capable of embodiment in many different forms, by way of illustration I have shown only one form of the same in the accompanying drawings, in which—

Figure 1 is a perspective view of an apparatus made in accordance with my invention, showing the same in a position for use;

Figure 2 is a perspective view of the same showing the apparatus when not in use;

Figure 3 is a vertical section of the apparatus; and

Figure 4 is a perspective view of the frame used for supporting the lamp.

In the drawings I have shown a cabinet 1 made of metal or any other suitable material which is supported at its lower end upon a pair of large wheels 2 carried upon a fixed axle 3, and a smaller pair of wheels 4 carried upon independently movable pivots 5, so as to facilitate the movement of the apparatus in any direction, as desired. Above the wheels 2 and 4 there is a partition 6 to provide a compartment 7 in which there is carried any desired auxiliary electrical apparatus 8, as, for example, a transformer for changing from indirect to direct current, resistance coils, etc. The electrical apparatus 8 is connected with any suitable source of current by means of a lead 9 having a socket 10 to be inserted in any suitable source of electric current. The lead 9 passes out of the apparatus through a removable horizontal partition 11 which covers the auxiliary electrical apparatus 8, and is rendered accessible for connection to the source of electric current when two front doors 12 and 13 on the apparatus are thrown open. When the said doors 12 and 13 are open there is also accessible a manual switch 14 which is connected by a lead 15 through the partition 11 to the said apparatus 8. Passing downwardly through the partition 11 there is also a rectangular conduit 16 supported by a bracket 17 from the rear wall of the cabinet. This conduit 16 has sliding within the same a telescoping conduit 18 which is adapted to be held in any adjusted position by means of a hand-wheel 19 screw-threaded in the conduit 16. At its upper end the conduit 18 supports a reflector 19^a which is in the form of a part of a cylinder with a curved rear portion 20 and two flat ends 21 and 22. The two ends 21 and 22 are provided respectively with pivots 23 and 24 in the form of bolts secured to the ends 21 and 22 to support a rectangular frame 25 having secured thereto an electric lamp 26 made of quartz or otherwise adapted for emitting ultra violet rays, by means of straps 27, 28 and 29. The lamp 26 receives its current from leads 30 and 31 which extend down through the telescoping conduit 18 to the auxiliary electrical equipment 8. It will be noted that the frame 25 at one side of the same is provided with a hook 32 and that the frame at the other side of the same has a slot 33 so that in supporting the apparatus the lamp 26 may be tilted at will to cause a circuit to be initially completed therein through a body of mercury contained within the same. Once the circuit is completed the frame 25 resumes its original position and the rays are produced within the vacuum therein without the liquid mercury completing the circuit between the terminals of the lamp. It will be noted that, as shown in Figure 1, when in use the reflector 19^a is ordinarily raised into a position above the level at the top of the apparatus by throwing back a cover 34 which is hinged to the cabinet 1 in such a manner as to protect the electric lamp at the rear, the said cover 34 being supported in this position by means of linked-arms 35 and 36 at the two sides of the apparatus

respectively. When the apparatus is not in use it will be understood that the reflector 19ª and the lamp carried therein will be moved down to a position within the cabinet 1, the plug 10 will be withdrawn from the source of electric current, and the leads 14 and 9 will be placed in the cabinet 1 upon the transverse partition 11, whereupon the doors 12 and 13 will be closed and the cover 34 lowered so that the parts are entirely enclosed and protected from damage, etc., as shown in Figure 2. In this position the apparatus may be used as a bedside table or an auxiliary table wherever desired.

While I have described my invention above in detail I wish it to be understood that many changes may be made therein without departing from the spirit of the same.

I claim:

1. In combination, an electric lamp adapted to emit ultra violet rays, a cabinet enclosing the same, and a slide for guiding the lamp upwardly from within to a position above the same, said slide having therein electrical connections for the lamp.

2. In combination, an electric lamp adapted to emit ultra violet rays, a cabinet enclosing the same, and a telescoping support for permitting the lamp to be elevated from within to a position above the same, said telescoping support having therein electrical connections for the lamp.

In testimony that I claim the foregoing, I have hereunto set my hand this 8th day of April, 1926.

DAVID C. LINK.