P. GILLEN.

PHONOGRAPH LAMP.

APPLICATION FILED FEB. 19, 1917.

1,226,607.

Patented May 15, 1917.

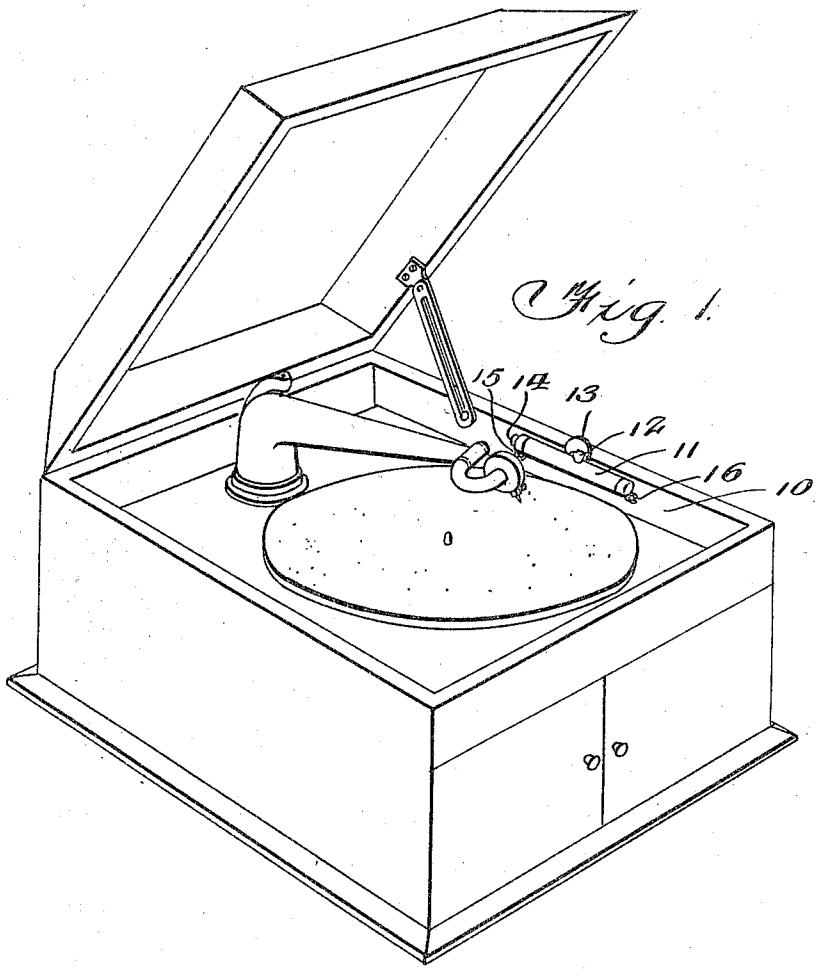


Fig. 1.

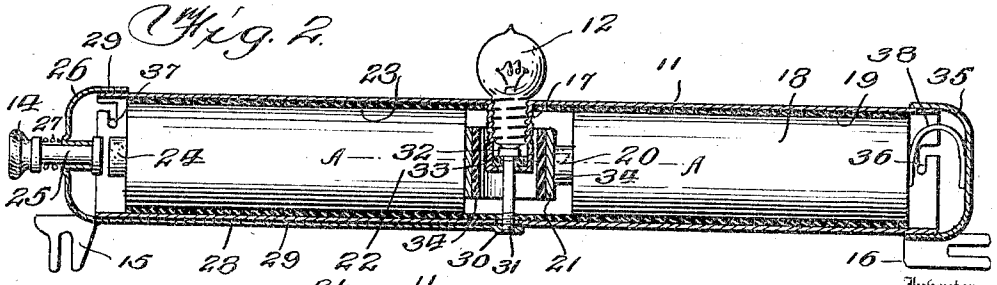


Fig. 2.

Inventor

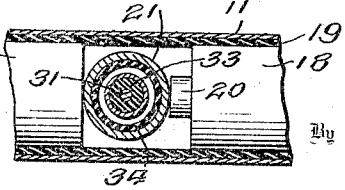


Fig. 3.

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UNITED STATES PATENT OFFICE.

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PHONOGRAPH-LAMP.

1,226,607. Specification of Letters Patent. **Patented May 15, 1917.**

Application filed February 19, 1917. Serial No. 149,508.

To all whom it may concern:

Be it known that I, PAUL GILLEN, a citizen of the United States, residing at Lynbrook, in the county of Nassau and State of New York, have invented certain new and useful Improvements in Phonograph-Lamps, of which the following is a specification.

This invention relates to electric flash lights and more particularly to that class of electric flash lights which are used for the purpose of giving a temporary or sustained illumination to the face of a phonograph record for the purpose of illuminating the phonograph needle and record so as to permit the correct positioning of the needle upon the record without injury to either.

A further object of this invention is to provide a phonograph lamp for the purpose specified which can be economically constructed, easily attached in its proper place upon the phonograph box and which can be easily operated for the purpose specified.

A further object is to provide a phonograph lamp which will be light in weight and which can be attached to and detached from the phonograph without damage to the phonograph box.

With these and other objects in view the invention consists of certain novel features of construction, combinations and arrangements of parts as are more fully hereinafter described and pointed out in the claims.

In the accompanying drawings.

Figure 1 is a view in perspective showing the device attached to a phonograph,

Fig. 2 is a vertical section showing the parts of the device in detail, and

Fig. 3 is a horizontal section showing the lamp connections and insulation on the line A—A of Fig. 2.

The parts of the device shown in detail in the drawings are as follows:—

10 represents the ordinary talking machine cabinet to which my device is attached by means of the brackets 15 and 16, the brackets being so shaped that the lamp can be readily lifted off the cabinet when desired. 11 is the outer casing of the lamp made of metal and preferably polished or nickel plated to present an attractive appearance. 12 is the incandescent light. 13 is a small adjustable reflector placed in back of the same so as to direct the light upon any part of the record. 14 is a push-button in circuit which is held out of contact with the terminal 24 by the spring 27. 17 is a metallic socket joined to and secured in the outer casing 11. 19 and 23 are the insulating members separating the outer casing 11 from the metallic coverings and terminals of the batteries 18 and 22. 20 and 24 represent equivalent terminals of the batteries 18 and 22, the two batteries being connected by the metallic ring 21 more fully shown in Fig. 3. 25 is a movable contact carried by the push-button 14. 26 and 35 are metallic caps secured to the respective ends of the outer casing 11. 28 is a metallic connector from the cap 26 to the connecting head 30, the screw 31 and the head making contact with the lamp 12. 33 and 34 are insulating rings more fully shown in Fig. 3. 36 and 37 are bayonet slot connections provided to permit the recharging of the batteries. 38 is a spring clip joining the members 35 and 36 and completing the circuit.

The operation of the device is as follows:—

When it is desired to operate the lamp, pressure upon the push-button 14 closes the circuit with the terminal 24, the current being conducted through the cap 26 along the connector 28 to the head 30, screw 31 and inner terminal of the lamp. The current then is conducted through the socket 17 to the casing 11, then to the cap 35, through the clip 38 to the outer terminal of the battery 18, through the battery to the terminal 20 which is joined in series to the outer terminal of the second battery 22 by means of the metallic connecting ring 21, thus completing the circuit. I am aware that previously, lamps have been constructed for the purpose of illuminating the needle of the phonograph but I believe that I have shown herein a lamp for this purpose which is simple in construction, convenient to operate and may be attached and detached without tampering with the delicate parts of the phonograph itself.

Various changes may be made in the general form and arrangement of the parts without departing from the spirit of my invention and hence I do not limit myself to the precise construction herein shown.

Having thus described my invention, what

I claim as new and desire to secure by Letters Patent is:—

1. In a lamp, the combination of a cylindrical casing, dry batteries placed in series therein, an incandescent light secured within said casing between said batteries, a metallic ring connecting opposite terminals of said batteries and inclosing the socket of said lamp, and movable contact means for completing the circuit between said lamp and said batteries.

2. In a lamp, the combination of a cylindrical casing, dry batteries placed in series therein, an incandescent light secured within said casing between said batteries, a metallic ring connecting opposite terminals of said batteries and inclosing the socket of said lamp, a metallic connector connected to the inner terminal of said lamp and insulated from the cylindrical metallic casing and movable contact means for completing the circuit between said connector and said batteries.

3. In a phonograph lamp, the combination of a cylindrical casing, dry batteries placed in series therein, an incandescent light secured within said casing between said batteries, a metallic ring connecting opposite terminals of said batteries and inclosing the socket of said lamp, spring contact means for completing the circuit between said lamp and said batteries, brackets secured to the ends of said cylindrical casing to permit same to be positioned on a phonograph box and means for reflecting the light from said lamp on any portion of the phonograph record.

In testimony whereof I hereunto affix my signature.

PAUL GILLEN.