D. T. FINKBEINER.

ILLUMINATING DEVICE.

APPLICATION FILED MAY 24, 1916.

1,194,986. Patented Aug. 15, 1916.

Fig. 1.

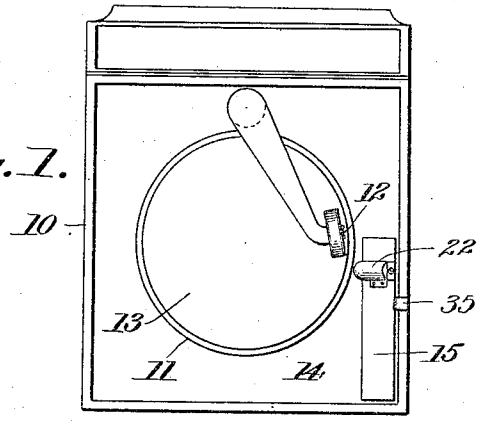


Fig. 2.

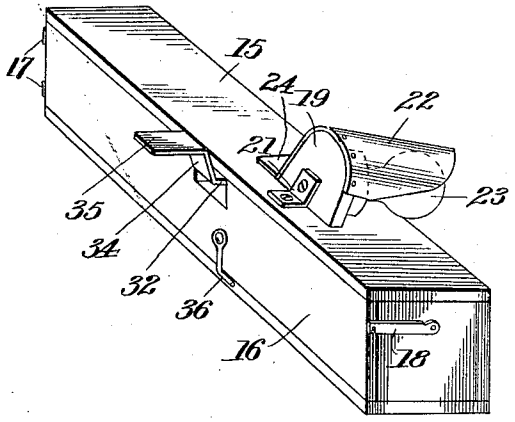


Fig. 4.

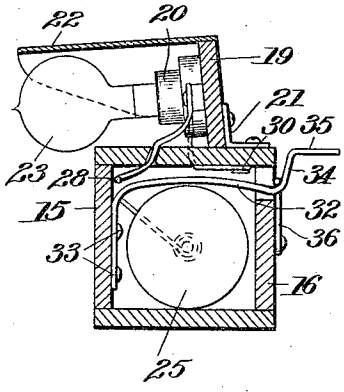
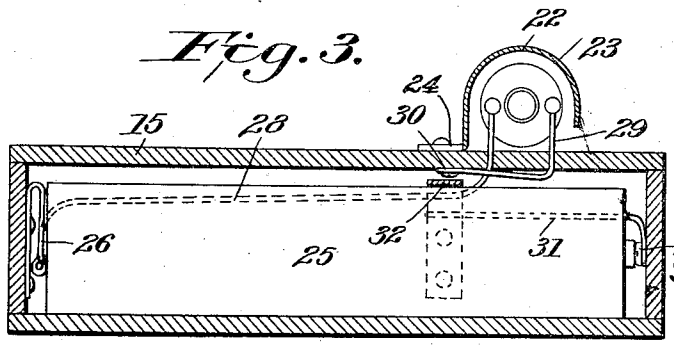


Fig. 3.



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UNITED STATES PATENT OFFICE.

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ILLUMINATING DEVICE.

1,194,986. Specification of Letters Patent. Patented Aug. 15, 1916.

Application filed May 24, 1916. Serial No. 99,665.

To all whom it may concern:

Be it known that I, DANIEL T. FINKBEINER, a citizen of the United States, residing at Freeport, in the county of Armstrong and State of Pennsylvania, have invented new and useful Improvements in Illuminating Devices, of which the following is a specification.

This invention is an improved device for illuminating the interior of a cabinet containing a sound reproducing machine.

One of the objects of the invention is to provide a simple device which may be placed at a convenient location with a sound reproducing machine cabinet, and having means whereby the portions of said cabinet contiguous to said device, may be completely illuminated, to enable the operator to readily see the record, the stylus and its support, and the record controlling devices.

A further object is to provide a device of the character mentioned having means whereby the source of illumination is automatically turned on or off, by the opening and closing of the cabinet, respectively.

A further object is to provide a portable device of the character mentioned, which may be placed in position within any of the types of cabinet now in general use, without cutting or marring the same, or altering the positions of any of the parts.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawing:—Figure 1 is a plan view illustrating a portion of a sound reproducing machine cabinet with my invention applied thereto, the cover being illustrated in raised position. Fig. 2 is an enlarged perspective view illustrating the illuminating device. Fig. 3 is a longitudinal sectional view thereof. Fig. 4 is a transverse sectional view.

Referring to the drawing, 10 designates a cabinet for containing a sound reproducing instrument, which cabinet may be of any desired construction, the same being conventionally illustrated.

The invention is in no way affected by the type of sound reproducing mechanism, and for purposes of illustration a sound reproducing device of the disk type is shown conventionally, said device comprising the disk supporting platen 11, the stylus 12, and its adjuncts, and a disk record 13.

Located within the chamber 14, of cabinet 10, containing the platen 11, is a box or casing 15, which may be of any desired shape and constructed of any suitable material. As shown the casing is substantially rectangular in shape and provided with a door 16, preferably hinged at one end, as indicated at 17, and normally held in closed position by a latch 18. Extending upwardly from the top wall of the casing, is a supporting wall 19, for a lamp socket 20, said wall being suitably braced by an angle piece 21. A reflector of any suitable type, supported in any desired manner, is provided. In the drawing the reflector is illustrated as comprising a hood 22, attached to the edge of the supporting wall 19 and extending forwardly over the lamp 23, and is provided with a flange 24 attached to the top wall of the casing 15. Said hood serves to protect the lamp, and also as a reflector.

Current may be supplied to the lamp 23 in any suitable or desired manner. As shown in the drawing, a dry battery 25 is employed, one pole of which engages a spring contact arm 26 attached to one end of the casing, and the other pole engages a contact stud 27, attached to the other end of the casing. The contact spring 26 is connected with one of the contacts of the lamp socket 20 by means of a conductor 28. The other contact of the lamp socket is connected by a suitable conductor 29 with the stationary switch stud 30, attached to the top of the casing. The contact stud 27 is connected by means of a conductor 31, to a resilient switch arm 32, preferably formed of spring metal and attached to the front wall of the casing as indicated at 33. The arm 32 extends through a suitable opening in the door 16, and is normally held in contact with the stud 30 by means of the resiliency of the metal. The outwardly extended terminal of the switch arm 32 is bent upwardly as indicated at 34, and then outwardly to form an actuating arm 35, which, when the casing is placed within the chamber 14, overlies the

edge of the contiguous wall of said chamber, so as to be engaged by the cover of the cabinet, when moved to closed position. The resiliency of the arm 32 tends to normally maintain said arm in contact with stud 30, thereby keeping the circuit normally closed. If desired a hook 36, may be provided to engage the arm 32, and hold it out of contact with said stud 30.

In operation, the casing 15 is placed within the chamber 14, so that the actuating arm 35 will overlie the upper edge of the wall of said chamber. When the cover is closed, it will engage the actuating arm 35, and move the switch arm 32 out of engagement with the switch stud 30, and the circuit will thus remain broken as long as said cover is in closed position. Just as soon as the cover is raised, the weight thereof being removed from the actuating arm 35, permits the switch arm 32 to spring upwardly into contact with the stud 30, thereupon closing the circuit to the lamp 23. Said lamp is so positioned, and the reflector is so shaped, that the chamber 14 is illuminated in such manner that the light will shine upon the platen 11, the stylus 12, the disk 13, if in position upon the platen, the starting lever, and other adjuncts of the sound reproducing machine. Just as soon as the machine is placed in operation, the cover of the cabinet is closed in the usual manner, coming into engagement with the actuating arm 35, and moving switch arm 32 to break the circuit. The parts remain in this position until the cover is again raised.

It will be understood that while the invention herein described is practically designed for use in illuminating cabinets of sound reproducing machines, it is not limited to such use, but it may be employed for any other illumination purposes of which it may be capable, without departing from the spirit thereof.

Having thus explained the nature of my invention, and described an operative manner of constructing and using the same, although without attempting to set forth all of the forms in which it may be made, or all of the forms of its use, what I claim is:—

1. An illuminating device of the character described comprising a casing shaped to be placed within the cabinet of a sound reproducing machine, a lamp attached to the exterior of the top wall of said casing and projecting rearwardly thereof, means within the casing for supplying electricity to the lamp, and a switch within the casing for controlling the circuit to the lamp, said switch having an arm projected through a wall of the casing and positioned to be engaged by a movable element of said cabinet.

2. An illuminating device of the character described comprising a casing shaped to be placed within the cabinet of a sound reproducing machine, a lamp attached to the exterior of the top wall of said casing and projecting transversely thereof, means within the casing for supplying electricity to the lamp, and a switch within the casing for controlling the circuit to the lamp, said switch having a resilient arm projected through a wall of the casing and provided with an offset portion positioned to be engaged by a movable element of said cabinet, the resiliency of said arm acting to maintain a closed circuit at the switch contacts.

3. An illuminating device of the character described comprising a casing shaped to be placed within the cabinet of a sound reproducing machine, an upstanding supporting wall attached to the exterior of the top wall of said casing and extending longitudinally thereof, a lamp supported by said supporting wall, means within the casing for supplying electricity to said lamp, and a switch within the casing having an arm projected through one of the walls thereof, said switch controlling the circuit to said lamp.

4. An illuminating device of the character described comprising a casing shaped to be placed within the cabinet of a sound reproducing machine, an upstanding supporting wall attached to the exterior of the top wall of said casing and extending longitudinally thereof, a lamp attached to said supporting wall, a hood also attached to said supporting wall and covering said lamp, means within the casing for supplying electricity to the lamp, and a switch within the casing for controlling the circuit to the lamp, said switch having an arm projected through one wall of the casing.

5. An illuminating device of the character described comprising a casing shaped to be placed within the cabinet of a sound reproducing machine, a supporting wall attached to the exterior of said casing, a lamp attached to said supporting wall, a hood also attached to said supporting wall and extending over said lamp, said hood being provided with a flange attached to the contiguous wall of said casing, means within the casing for supplying electricity to the lamp, and a switch within the casing for controlling the circuit to the lamp, said switch having an arm projected through one wall of said casing.

6. An illuminating device of the character described comprising a casing, a lamp attached to the exterior of the top wall of the casing and projecting transversely thereof, means within the casing for supplying electricity to the lamp, a switch stud in circuit with said lamp, a resilient switch arm also in circuit with said lamp, and positioned to normally contact with said stud by reason of the resiliency of said arm, said arm being projected through a wall of said casing and

provided with an offset portion providing a shoulder, and a hook attached to the exterior of said casing and positioned to engage said arm contiguous to said shoulder to hold the same out of contact with said stud.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

DANIEL T. FINKBEINER.

Witnesses:
C. S. D'IRVILLIERS,
W. A. SHRYOCK.