

July 31, 1934.

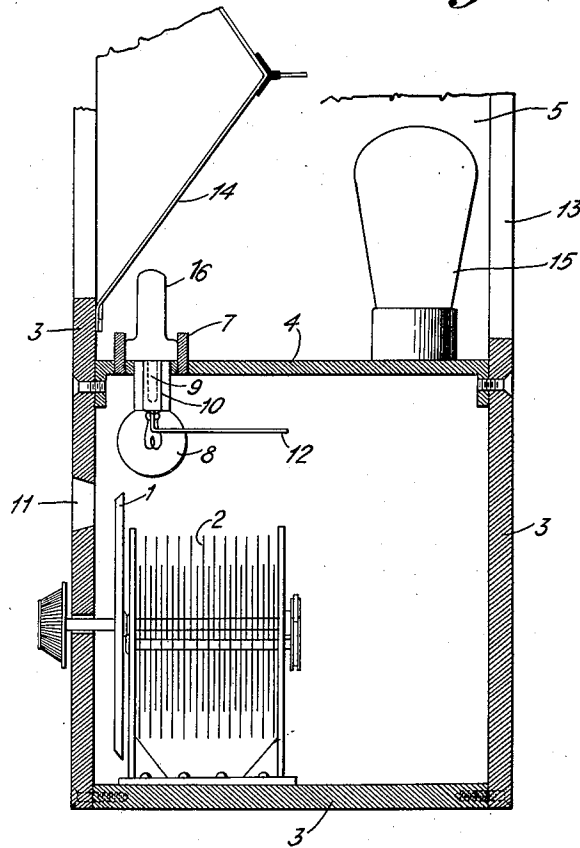
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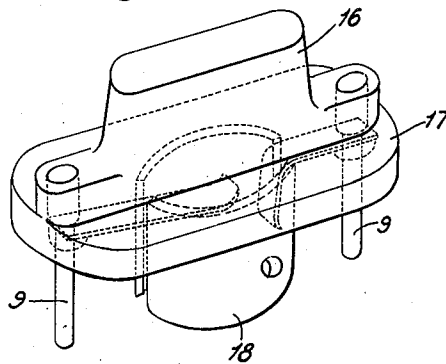
RADIO DIAL ILLUMINATION

Filed June 15, 1932

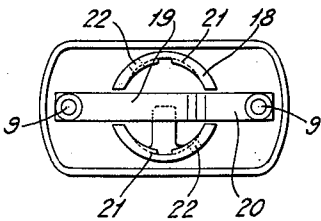
*Fig. 1*



*Fig. 2*



*Fig. 3*



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## UNITED STATES PATENT OFFICE

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## RADIO DIAL ILLUMINATION

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3 Claims. (Cl. 240—2.1)

This invention has reference to a device for illuminating housed adjustable portions of wireless receiving or transmitting installations.

It is common to use apparatus of this kind in which the scale of adjustable portions, such as condensers, potentiometers, variometers or the like, housed in the apparatus so as to be visible from without, are illuminated by a source of illumination, for example a small glow lamp or glow discharge lamp also housed in the apparatus. The lamp itself is not visible but is arranged so that the light shines on the parts to be illuminated. The lamp is usually secured in a holder which adjoins the portions to be illuminated, and is fixed to the frame of the set, or any other portion.

Now, it has been found that the replacement of the lamps is often very difficult. The lamp with the holder is, so to say, entirely locked in by the surrounding portions placed in position during the further mounting operation. It is often necessary to detach portions from the set in order to permit of the lamp being withdrawn from the holder.

According to the present invention, the lamp is secured to a holder capable of being withdrawn without additional means. The phrase "capable of being withdrawn without additional means" is to be understood to mean that there is no need for the device to be dismounted to any appreciable extent in order to attain access to the holder.

It may be endeavored to fix the holder to the frame of the set or any portion connected therewith and readily accessible from without so as to permit of the holder being withdrawn without the use of any mechanical means, such as screw-drivers or the like. For this reason, in one embodiment the holder is provided with leading-in members constructed as contact pins and cooperating with contact sockets which in the set are readily accessible from without.

The combination of pin and socket results in a simple body very suitable for economical mass production. The holder is preferably provided with a handle. The dimensions of the holder are essentially determined by the distance between the point of attachment for the holder, which is preferably situated in the rear plate or the upper plate of the frame of the set, and the point at which the lamp has to be arranged in order favorably to illuminate the particular portions.

The novel features which I believe to be characteristic of my invention are set forth in particularity in the appended claims, the invention

itself, however, as to both its organization and method of operation will best be understood by reference to the following description taken in connection with the drawing in which I have indicated diagrammatically one circuit organization whereby my invention may be carried into effect.

In the drawing,

Fig. 1 shows, partly in section, a receiver embodying the invention,

Fig. 2 is an isometric view of the lamp holder,

Fig. 3 is a bottom view of the holder of Fig. 2.

Considering now the drawing, the scale 1 of a condenser 2 secured to the frame 3 of a radio set is illuminated by a small lamp 8 so that even in the dark the scale is readily visible through the window 11. The lamp 8 is fitted in a holder 6 according to the invention. This holder will be more fully described with reference to Figs. 2 and 3. The holder is inserted by pins 9 into contact sockets 10 secured to the middle plate 4 of the frame of the set. The current is supplied to the said sockets by means of a cable 12. For the sake of clearness, the attachment of the sockets to the plate 4 is not shown in detail.

A member 7 also secured to the plate 4 serves as a finding edge for inserting the holder. In the set illustrated the holder is put into position by way of the aperture 13 of the rear plate through the space 5. The space 5 is readily accessible. It may have housed in it a cone of a loudspeaker 14 and a few tubes 15 which, however, are not in the way of the holder when the latter is being placed in position. Otherwise, the holder may be inserted in the front plate and in this case the handle may be given, for example, an elegant shape.

A model holder is illustrated in Figs. 2 and 3. The handle is designated by 16. It may be made in one piece of insulating material integrally with the member 17 to which the contact pins 9 and the lamp holder proper 18 are secured. The lamp holder 18 may similarly be connected to the member 17 directly, as for example by moulding. The attachment of the pins 9 to the member 17 may be different, depending on the material used for the member 17.

The pins are electrically connected to contact members 19 and 20. The resilient strip 19 constitutes the middle contact, the ditto strip 20 constitutes the side contact for the lamp. The lamp may be introduced into the holder 18 in well known manner by bayonet locking and for this purpose the holder is provided with helical

grooves 21 and recesses 22. The lamp is rigidly held by the spring 19.

While I have indicated and described one arrangement for carrying my invention into effect, it will be apparent to one skilled in the art that my invention is by no means limited to the particular organization shown and described, but that many modifications may be made without departing from the scope of my invention as set forth in the appended claims.

What I claim is:

1. An illuminating arrangement, adapted for use with a radio indicator dial arranged to be visible through an opening in a radio receiver panel, said arrangement including a lamp socket provided with a holder, and means provided behind the panel, and on the socket, for positively disposing the socket in dial illuminating position and permitting the removal of the socket when said holder is moved in socket removing direction, said means consisting of at least two contact pins, conductively connected to said socket, and disposed in parallel relation with each other, said pins extending parallel to, and in the same direction as, the said socket.

2. An illuminating arrangement, adapted for use with a radio indicator dial arranged to be visible through an opening in a radio receiver panel, said arrangement including a lamp socket provided with a holder, and means provided be-

hind the panel, and on the socket, for positively disposing the socket in dial illuminating position and permitting the removal of the socket when said holder is moved in socket removing direction, said means consisting of at least two contact pins, conductively connected to said socket, and disposed in parallel relation with each other, said pins extending parallel to, and in the same direction as, the said socket, and at least two finding edges disposed adjacent said holder when the latter is in dial illuminating position.

3. An illuminating arrangement, adapted for use with a radio indicator dial arranged to be visible through an opening in a radio receiver panel, said arrangement including a lamp socket provided with a holder, and means provided behind the panel, and on the socket, for positively disposing the socket in dial illuminating position and permitting the removal of the socket when said holder is moved in socket removing direction, said means consisting of at least two contact pins, conductively connected to said socket, and disposed in parallel relation with each other, said contact pins projecting from one side of said holder, adjacent said socket, said pins extending parallel to, and in the same direction as, the socket, and being of a length substantially equal to that of the socket.

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