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W. O. HOSTER

1,746,894

LOUD SPEAKER

Filed Oct. 7, 1927

Fig. 1

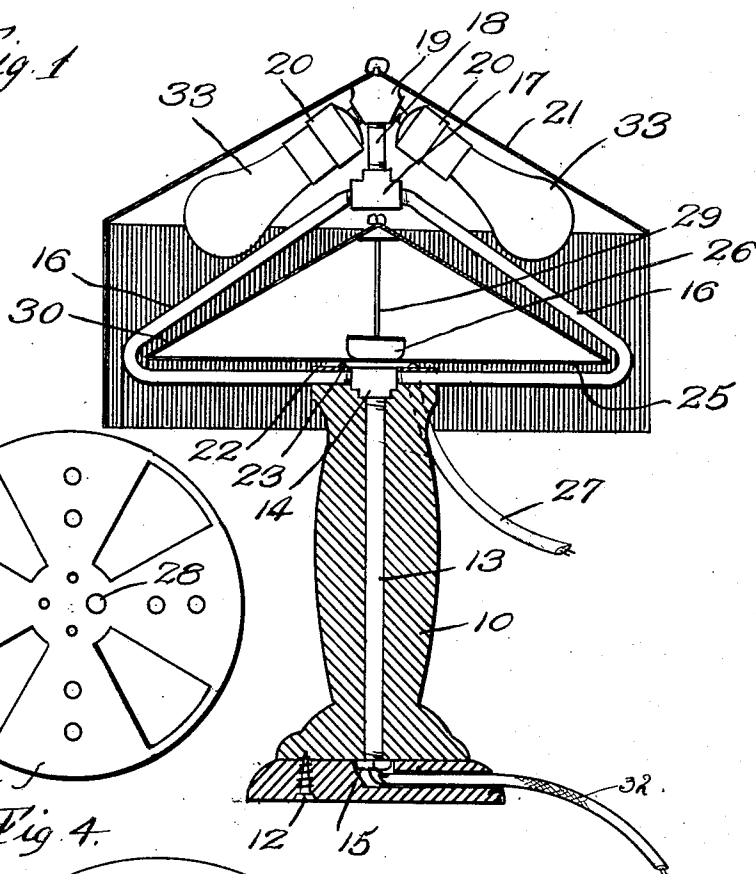


Fig. 4.

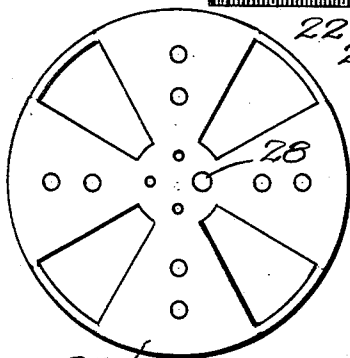
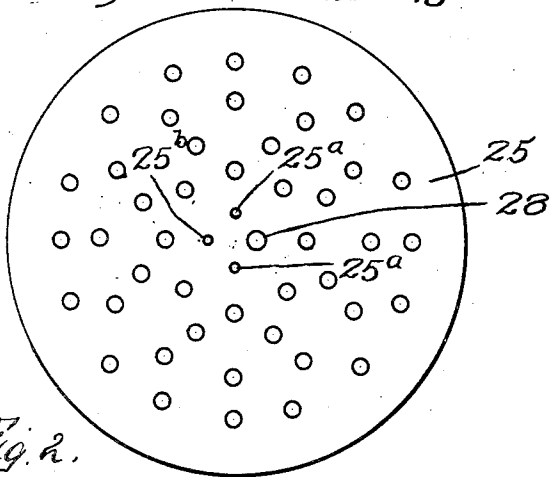
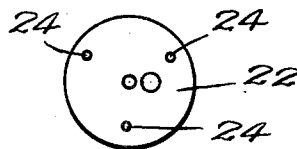


Fig. 3.

Fig. 2.

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LOUD-SPEAKER

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My invention relates to new and useful improvements in a loud speaker for radio service and has for its primary object to so construct and combine a loud speaker with an electric lamp as to economize space and increase the effectiveness of the loud speaker as well as the lamp.

A further object of my invention is to provide for the ready assembling of the various parts in order to cheapen the manufacture thereof.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by numerals to the accompanying drawings forming a part of this application, in which:

Fig. 1, is a vertical section of a lamp with which is combined a loud speaker, the parts being left in elevation to more clearly illustrate the construction.

Fig. 2, is a bottom plan view of the sound amplifying member of the device.

Fig. 3, is a top plan view of the cap utilized to hold the lamp supporting frame in place upon the pedestal.

Fig. 4, is a slight modification of the sound amplifying member shown in Fig. 2 on a smaller scale.

In carrying out my invention as herein embodied, 10 represents the pedestal of the lamp to the bottom of which the base 11 is secured by suitable screws 12.

Through the center of this pedestal extends the pipe 13 having threaded upon its upper end of the T-coupling 14, which latter is seated in a recess in the top of said pedestal, and this coupling is held rigidly in its recess by the nut 15 threaded upon the lower end of the pipe 13.

Secured in each end of the horizontal portion of the coupling is a tube 16, and these tubes first extend horizontally and then upward at an angle and have their upper ends secured in the horizontal portions of the T-coupling 17.

In the branch opening of the coupling 17 is secured the tube 18, which latter carries the head 19 for supporting the lamp sockets 20 and the lamp shade 21.

A plate 22 is secured upon the top of the pedestal by screws 23 passed through the holes 24 and threaded into the pedestal and this plate serves to enclose the coupling 14. Upon these screws 23 rests the perforated disc 25 of the loud speaker, which disc has mounted thereon the unit 26 with which latter the proper wires of the receiving set are connected through the cord 27 passed through a suitable hole in the upper portion of the pedestal 10 and the hole 28 in the disc. I have found that it is preferable to cover the heads of the screws 23 with rubber or like substance.

The disc 25 is provided with screw holes 25^a through which may be passed suitable screws for fastening said disc to the unit and another screw hole 25^b may be provided for the reception of a screw to fix the disc to the lamp pedestal.

29 represents the pin for transmitting the vibrations from the unit 26 to the cone 30, which latter is made of celluloid and the edges of this cone are held in contact with the disc 25 by the nut 31 threaded upon the upper end of the pin 29.

From the foregoing description it will be seen that the device can be readily assembled by securing the pipe 13 in the pedestal and threading the lamp cord 32 through this pipe after said cord has first been threaded through one of the tubes 16 and the tube 18.

In practice, I have found that the making of the cone 30 of celluloid greatly increased the quality and volume of the loud speaker.

The disc 25 which acting as a sounding board also permits the passage of the sound waves from the interior thereof through the perforation in this disc.

Of course I do not wish to be limited to the exact details of construction as herein shown, as these may be varied within the limits of the appended claim without departing from the spirit of my invention.

Having thus described my invention, what I claim as new and useful is:

In a device of the character described, a

pedestal, a pipe extending from the center of
said pedestal, a coupling carried by the upper
end of the pipe and seated in a recess, a nut
threaded upon the lower end of the pipe for
5 holding the latter in place, a base secured
upon the bottom of the pedestal for housing
the nut, two tubes secured in the coupling,
said tubes being bent at angles, a second cou-
pling in which the upper ends of said tubes
10 are secured, a plate, rubber head screws se-
curing said plate to the upper end of said
pedestal, a perforated disc mounted upon the
heads of said screws, an electromagnetic unit
supported upon the disc, a celluloid cone sup-
15 ported upon the vibrating pin of the unit,
and conductors passing through the upper
portion of the pedestal and leading to said
unit.

In testimony whereof, I have hereunto af-
20 fixed my signature.

WILLIAM O. HOSTER.

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