April 7, 1936. J. O. McNARY 2,036,948

REMOTE CONTROL FOR RADIO APPARATUS

Filed Aug. 31, 1933

Fig. 1.

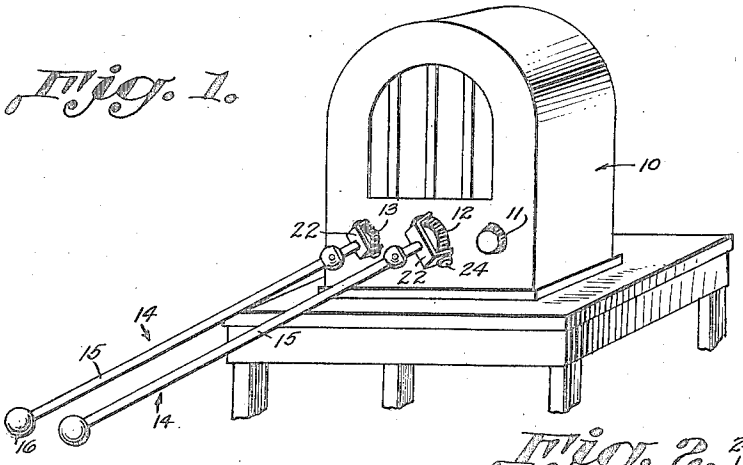


Fig. 2.

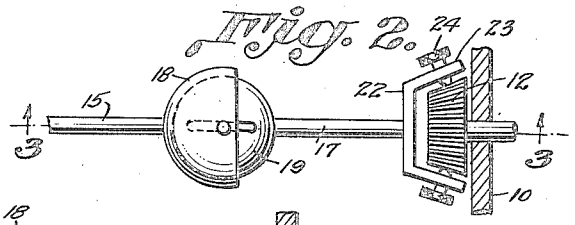


Fig. 3.

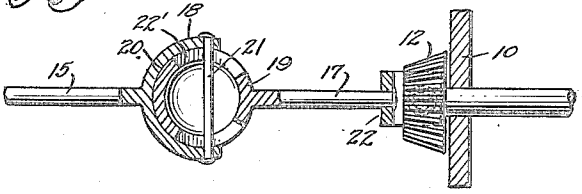


Fig. 5.

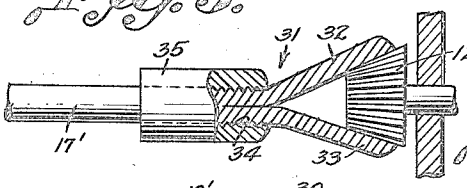


Fig. 4.

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REMOTE CONTROL FOR RADIO APPARATUS

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3 Claims. (Cl. 250—40)

This invention relates to a remote control for radio apparatus and has for an object to provide an improved remote control mechanism suitable for attachment to any radio set so as to enable the radio set to be controlled from a distance.

A further object of this invention is to provide a remote control mechanism for radio apparatus which makes it possible for the dials of a radio set to be manipulated from a convenient distance from the radio receiver, as for instance by a person seated in a chair beyond arm's length from the radio receiver.

Still a further object of this invention is to provide a remote control radio mechanism which is operable somewhat beside the position straight in front of the radio receiver, so that it is not necessary to be seated directly in front of the radio receiver in order to control the latter.

With the foregoing and other objects in view, as will hereinafter become apparent, this invention comprises the constructions, combinations, and arrangements of parts, hereinafter set forth, claimed and illustrated in the accompanying drawing:

Fig. 1 is a perspective view of the invention applied to a radio receiver.

Fig. 2 is a fragmentary plan view of the right hand end of one of the control rods.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a modification of the invention showing a support for the control rod and the universal coupling on the opposite end of the rod.

Fig. 5 is a view showing another method of fastening the control rods to the radio receiver.

There is shown at 10 a conventional representation of a radio receiver provided with the usual control knobs 11, 12 and 13. Knob 11 may be used for turning the said radio receiver on and off, while knob 12 is used for selecting the station and knob 13 for controlling the volume.

As shown in Figure 1, a remote control mechanism 14 is applied to each of knobs 12 and 13 and if desired, another similar mechanism can likewise be applied to knob 11. Inasmuch as each control mechanism 14 is identical, only one of them will be described, this remote control mechanism constituting this invention.

The remote control mechanism 14 consists of a rod 15 having at one end a ball or handle 16 for easy manipulation thereof. The rod 15 may be of any suitable length and is connected to a short length 17 by means of a universal coupling 18. The coupling 18 may be of any desired construction, the form herein shown comprising a ball 19 formed on the end of the short length 17 and a socket 20 formed on the end of the long rod 15 and having a connecting pin 21 passing through opening 22 in the ball 19.

The short length 17 ends in a bridge 22 through whose legs 23 are bored thumb screws 24. The bridge 22 is of width somewhat wider than the diameter of a radio receiver knob allowing the thumb screws 24 to securely fit the opposite sides of the knob 12 and hold the remote control mechanism 14 in position on the knob.

The form of the invention just described is especially intended for use where the operator would be located substantially in front of the radio receiver 10, but as quite often happens, it may be desirable to control the radio receiver 10 from a position other than directly in front thereof. In this form the rod 15', instead of being provided with a handle or ball at the outer end, is provided with another universal coupling 18' which connects it to another length of rod 25 and a handle 26.

The rod 15' is provided with the same universal coupling 18 and the same type of mechanism for connecting the short length 17 to the radio receiver control knob. An adjustable support 27 carries the weight of the end of the rod 15. The support 27 consists of a supporting sleeve 28 and a telescoping rod 29 secured at the desired height by means of a thumb screw 30. The upper end of the supporting rod 29 is provided with a supporting tube 31 through which the rod 15' may be rotated as desired for manipulating the radio control knob. With this mechanism as shown at 14', the rod 15' may be set at an angle to the short length 17 and the rod 25 may be set at a further angle to the rod 15, enabling the radio 10 to be controlled from a position other than directly in front thereof.

Instead of securing the short length 17 to the radio control knob by means of a bridge and thumb screws, many other suitable securing means may be provided. Thus, as shown in Figure 5, the length 17' is provided with a bifurcated end 31. The fingers 32 and 33 formed of this bifurcated end 31 are placed on opposite sides of the knobs 12. The length 17' is threaded as at 34 adjacent the bifurcated end 31 and a threaded sleeve 35 cooperating therewith tends to draw the fingers 32 and 33 toward each other and securely grip and hold the radio control knob 12.

The novel features and the operation of this

device will be apparent from the foregoing description. While the device has been shown and the structure described in detail, it is obvious that this is not to be considered limited to the exact form disclosed and that any change may be made therein within the scope of what is claimed without departing from the spirit of this invention.

Having thus set forth and disclosed the nature of this invention, what is claimed is:

1. For use with a home radio receiving apparatus of the type having at least one radio control knob on one face thereof; the combination with said radio control knob of a quick attachable remote control mechanism for operating said control knob from a distance comprising a plurality of rods, ball and socket universal coupling means securing said rods together, and means at the end of one of said rods detachably securing said mechanism to said radio control knob, said securing means comprising a bridge, forwardly but angularly extending lugs on said bridge to fit over said radio control knob, screw means threaded through each of said lugs to detachably secure said bridge to said knob and a telescopic sleeve and rod for operatively supporting an intermediate rod.

2. For use with a home radio receiving apparatus of the type having at least one radio control knob on one face thereof; the combination with said radio control knob of a quick attachable remote control mechanism for operating said control knob from a distance comprising a plurality of rods, a plurality of ball and socket universal coupling means securing said plurality of rods together, means for securing an end rod of said plurality of rods to said radio control knob, a ball handle means on the other end rod, and an adjustable telescopic sleeve and rod supporting means for an intermediate rod.

3. For use with a home radio receiving apparatus of the type having at least one radio control knob on one face thereof, the combination with said radio control knob of a quick attachable remote control mechanism for operating said control knob from a distance comprising a train of rods, ball and socket universal coupling means securing said train of rods together, means for securing one end of said train of rods to said control knob of the radio receiver, a manual ball handle at the other end of said train of rods, and telescopic sleeve and rod means for rotatably and adjustably supporting an intermediate portion of said train of rods.

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