

Jan. 28, 1930.

A. P. LUKER

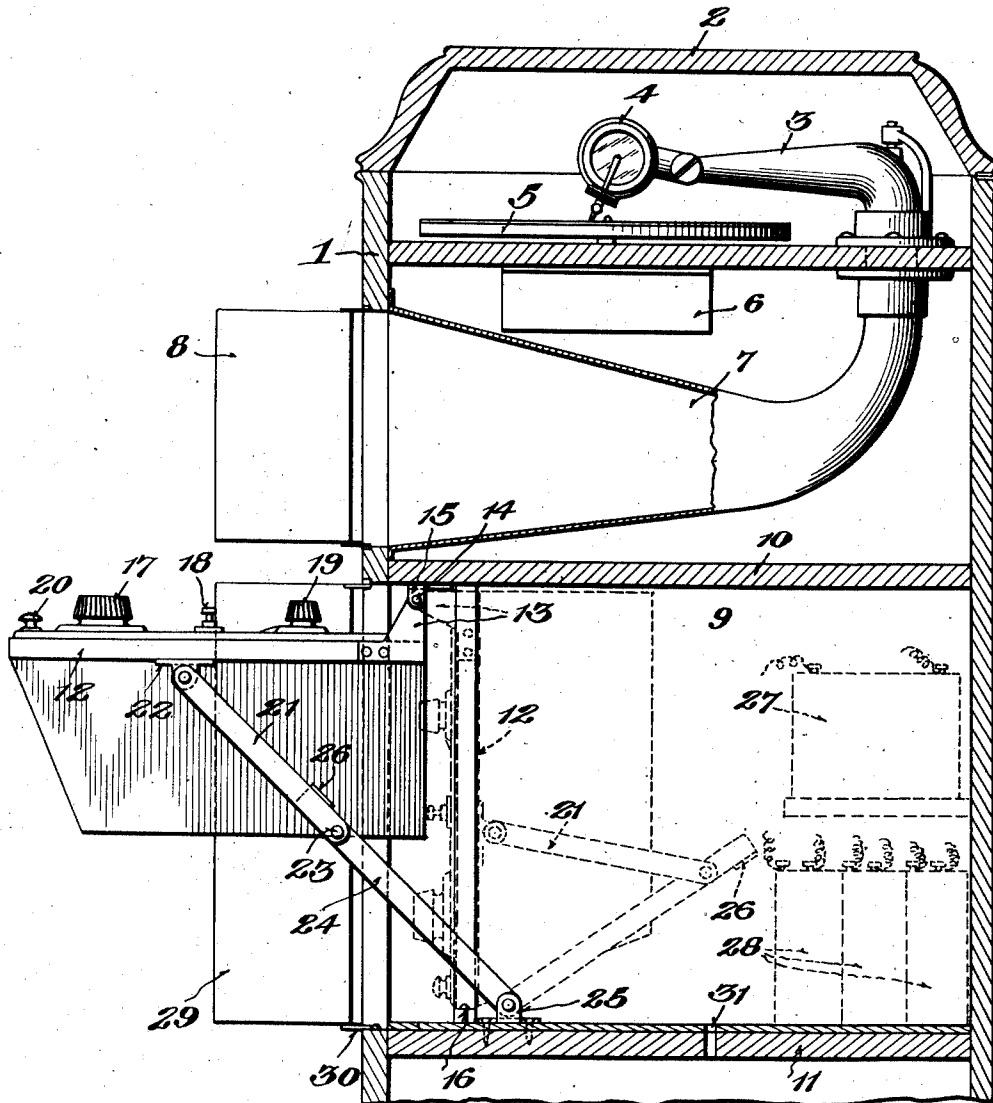
1,745,306

UPRIGHT CABINET FOR RADIO APPARATUS

Filed Feb. 20, 1925

2 Sheets-Sheet 1

Fig. 1.



Inventor

Armer P. Luker

Mauro, Cameron, Lewis & Kicham.
Attorneys

Jan. 28, 1930.

A. P. LUKER

1,745,306

UPRIGHT CABINET FOR RADIO APPARATUS

Filed Feb. 20, 1925

2 Sheets-Sheet 2

Fig. 2.

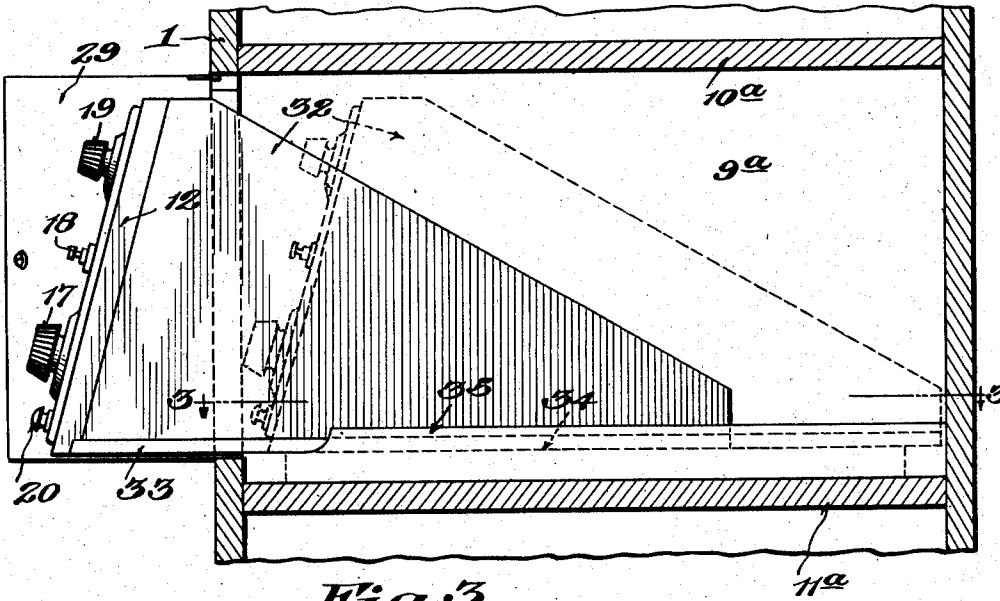


Fig. 3.

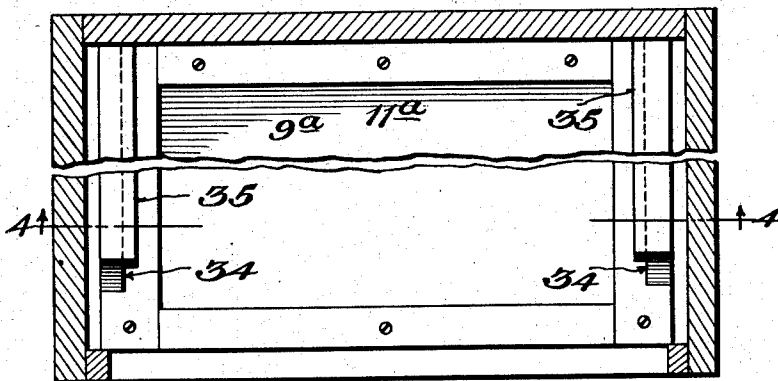
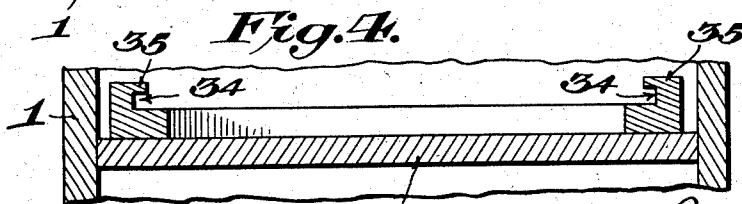


Fig. 4.



Inventor

Armer P. Luker

Mauro, Cameron, Lewis & Kirkham.
Attorneys

UNITED STATES PATENT OFFICE

ARMER P. LUKER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO VICTOR TALKING MACHINE COMPANY, A CORPORATION OF NEW JERSEY

UPRIGHT CABINET FOR RADIO APPARATUS

Application filed February 20, 1925. Serial No. 10,675.

This invention relates to mountings for radio panels, and more particularly to the mounting of radio panels in upright cabinets of the talking machine type.

It has heretofore been proposed to mount radio panels in cabinets of the upright type but for the most part it has been found necessary to fixedly mount said panels in a substantially vertical position. The numerous adjustments that must be made to the control members when operating a radio receiving set can only be made with difficulty if the panel carrying said members is fixedly mounted in a vertical position. Accordingly, an object of the present invention is to provide novel means for mounting a radio panel in an upright cabinet which will overcome the above objections.

Another object of the invention is to provide means whereby a panel may be moved exteriorly of the cabinet into a convenient operating position when it is desired to adjust the radio control members carried thereby.

Another object is to provide means for securely maintaining a panel in operating position exteriorly of the cabinet.

A further object of the invention is to provide means whereby no injury will result to the delicate instruments carried by said panel in case the latter should be accidentally moved from its normal operating position. These and other objects will appear more fully hereinafter in the detailed description.

Two forms which the inventive idea may assume are shown in the accompanying drawings, which drawings, however, are for the purpose of illustration only and are not to be taken as defining the limits of the invention, reference being had to the appended claims for this purpose.

In the drawings,

Fig. 1 is a sectional side elevation of a cabinet embodying the present invention;

Fig. 2 is a side elevation, partially in section and with parts broken away, illustrating another form of the inventive idea; and

Figs. 3 and 4 are sectional views taken on

line 3—3 of Fig. 2, and line 4—4 of Fig. 3, respectively.

Referring to the drawings wherein like reference characters refer to like parts throughout the several views, 1 is a talking machine cabinet of the upright type which is provided with the usual hinged lid 2 for closing the space occupied by a tone-arm 3, reproducer 4, and rotating record carrier 5. The mechanism for rotating the carrier 5 is diagrammatically illustrated at 6 and is preferably positioned in the upper portion of the compartment which encloses the amplifying member or horn 7. Volume control doors 8 of any suitable type are provided adjacent the mouth of the horn 7.

The compartment 9 which is defined by the sides of the cabinet 1 and may be provided with upper and lower walls 10 and 11 respectively, contains a panel 12 of any suitable character, size, and material which is secured to the upper wall 10 in such a manner that the panel may be swung to a substantially horizontal position exteriorly of the cabinet. In the form shown, the connection between the panel 12 and wall 10 comprises a pair of brackets 13 secured to each side of the panel adjacent the upper end thereof in any suitable manner, as by means of screws. Each of the brackets is provided with a forwardly extending portion adapted to receive a pin 14 which engages and is retained in operative position by a downwardly extending bracket member 15 secured to the lower surface of wall 10. A spring latch 16 of any suitable type is mounted in any desired manner in the lower wall 11 for yieldingly retaining the panel 12 in upright position, in the compartment 9, when the same is not in use.

The panel 12 is particularly adapted as a mounting for elements of a radio receiver, the control members for which are illustrated by the members 17, 18 and 19. It will be understood, however, that this showing is diagrammatic only and that any suitable control means may be employed. In order that the adjustments necessary in the operation of the radio receiving set may be made with facility, it is desirable that the panel carrying

the same be swung to, and securely held, in a substantially horizontal position. To this end a manual element or knob 20 of any suitable type is provided on the face of the panel, adjacent the lower end thereof, in order to facilitate the swinging of the panel about its pivot pins 14. In the form shown, the means for retaining the panel in a horizontal, operative position comprise a pair of jointed arms, one for each side of the panel 12. If desired, however, only one of said arms may be employed. Preferably, each arm comprises an upper link 21 which is pivotally connected at its upper end to a bracket 22 secured to the rear or lower face of the panel 12, and at its lower end is pivoted as at 23 to a lower link 24. The link 24 is pivotally connected at its lower end to a bracket 25 which is secured to the upper surface of the compartment wall 11. The pivotal connection 23 between the links is so located that the latter overlap for a suitable distance, and on the upper edge of the overlapping portion of the lower link 24 there is preferably provided a laterally projecting lug or stop member 26 which prevents outward breaking of the joint formed at 23. The electrical units, such as dry cells, required in connection with the operation of the radio receiving set may be positioned in compartment 9 between the rear wall of the cabinet 1 and the panel 12 as diagrammatically illustrated at 27 and 28. Preferably, a door 29, or a pair of doors, provided with hinges 30, are secured to the cabinet 1 in a position to close the compartment 9 occupied by the panel when the latter is housed therein and not in use. The necessary connections to antenna or ground may be made through one or more suitable openings such as 31 formed in the lower wall 11.

Normally, the panel 12 and the instruments carried thereby are housed within the compartment 9 with the panel in a substantially vertical position, as is indicated by the dotted line showing in Figure 1, the catch device 16 resiliently locking the panel in said position. When so housed the swinging door or doors 29 are closed to prevent dust or moisture from damaging the delicate instruments carried by the panel. When it is desired to operate the radio set, the door or doors 29 are opened and the panel 12 is swung outwardly about the pivots 14 to a substantially horizontal position. This movement of the panel results in bringing the links 21 and 24 of the supporting arms into alinement to constitute a rigid support for the panel, whereby the same is held in a position which facilitates the actuation of the control members 17, 18 and 19. If the joint 23 is accidentally broken when the panel is in the horizontal position, the panel will swing downwardly but will not move to closed position due to the eccentric mounting

of said pivots. Accidental damage to the delicate instruments carried by the panel is thus avoided.

Referring to Figures 2, 3 and 4 illustrating another embodiment of the present invention, the panel 12 is shown slidably mounted in the compartment 9^a of the cabinet 1. Secured to the opposite side edges of the panel 12 are side members 32 which are substantially triangular in shape and which are provided on their lower outer edges with horizontal ribs 33 that slidably engage the sides of grooves 34 formed in a supporting member 35 secured to the upper surface of lower wall 11^a. The front edges of the side members 32 are so formed that they constitute an inclined support for the panel 12 which inclination facilitates the adjustment of the control elements 17, 18 and 19. When not in use, the panel 12 and supporting members 32 therefor, are moved to a position within the compartment 9^a as illustrated in dotted lines in Figure 2, and the door or doors 29 are closed to prevent dirt or moisture from damaging the instruments carried by the panel. When it is desired to operate the radio receiver, the doors 29 are opened and the panel 12 is moved to operating position exteriorly of the cabinet by means of the knob 20, said panel being securely supported in this position by means of the tongue and groove connection described.

It will be seen that there is provided a novel mounting for the instrument panel of a radio receiving set in an upright phonograph cabinet, which panel may be moved exteriorly of the cabinet and securely held in operating position. Closure means are provided for the panel compartment to prevent foreign matter from destroying the proper functioning of the device. The device is simple and rugged in construction and may be readily installed in phonograph cabinets now in use without detracting from their pleasing appearance. The particular mounting employed in the embodiment of the invention illustrated in Figure 1 is also such that injury to the instruments carried by the panel cannot result from an accidental displacement of the same. While two embodiments of the invention have been illustrated and described with considerable particularity, it will be understood that the invention is not limited thereto, but that changes may be made in the details of construction within the limits of the appended claims.

What is claimed is:

1. In combination with a talking machine cabinet having a compartment therein, a panel carrying radio control members in said compartment, said panel normally occupying a vertical position closing said compartment, means pivotally connecting said panel to said cabinet, the pivot axis being located at a distance in front of said panel, and means for

supporting said panel in a substantially horizontal position and projecting exteriorly of said cabinet, said radio control members being operatively accessible when said panel is in both said vertical and said horizontal positions.

2. In combination, a talking machine cabinet having a compartment therein, a panel carrying radio control members mounted in said cabinet and normally closing said compartment but adapted to be moved exteriorly of the latter, said radio control members on said panel being in position for operation thereof whether said panel is within or exteriorly of said cabinet, and supporting means for positioning said panel at an angle to the vertical when moved to the exterior of said cabinet to facilitate vision of said control members.

3. Apparatus of the class described comprising a cabinet having a compartment therein, a panel carrying radio control members and pivoted in said cabinet about a horizontal axis, said panel constituting when in vertical position a closure for said compartment having said control members on its outer side in position for operation and being rotatable to a horizontal position wherein said control members are uppermost thereon, and means for supporting said panel in said last named position.

4. Apparatus of the class described comprising a cabinet having a compartment therein, a panel carrying radio control members and pivoted in said cabinet about a horizontal axis, said panel constituting when in vertical position a closure for said compartment and being rotatable to a substantially horizontal position, said control members being accessible for operation in both positions of said panel, and means interposed between said panel and cabinet for maintaining said panel in position.

5. Apparatus of the class described comprising a cabinet having a compartment therein, a panel carrying radio control members and pivoted in said cabinet about a horizontal axis, said panel constituting when in vertical position a closure for said compartment and being rotatable to a substantially horizontal position, said control members being positioned for operation in both positions of said panel, said axis lying to one side of the plane of said panel when the latter is in vertical position, and means interposed between said panel and cabinet for maintaining said panel in position.

6. Apparatus of the class described comprising a cabinet having a compartment therein, a panel carrying radio control members and pivoted in said cabinet about a horizontal axis, said panel constituting when in vertical position a closure for said compartment and being rotatable to a substantially horizontal position, said control members be-

ing in position for operation in both positions of said panel, the relation of the weight of said panel and associated members to said axis being such as to counterbalance said panel about said axis and to eliminate gravitational pull to its limit position, and means for maintaining said panel in either of said positions.

In testimony whereof I have signed this specification.

ARMER P. LUKER.