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J. WOLFF

COMBINATION PHONOGRAPH AND RADIO

Filed May 5, 1924

Fig. 1

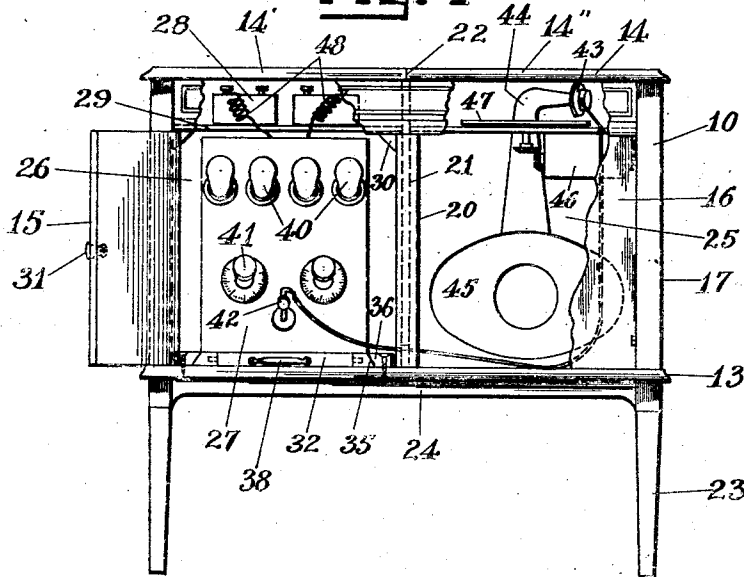


Fig. 2

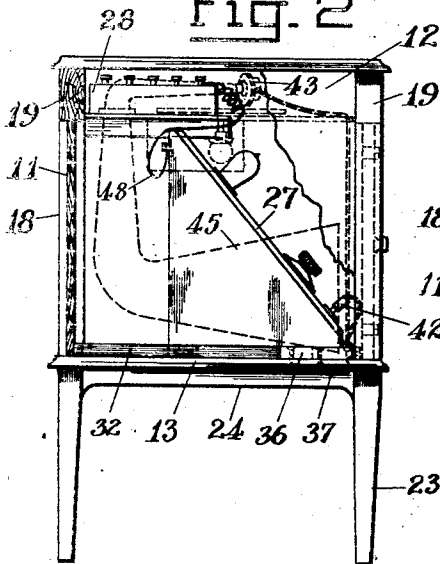


Fig. 3

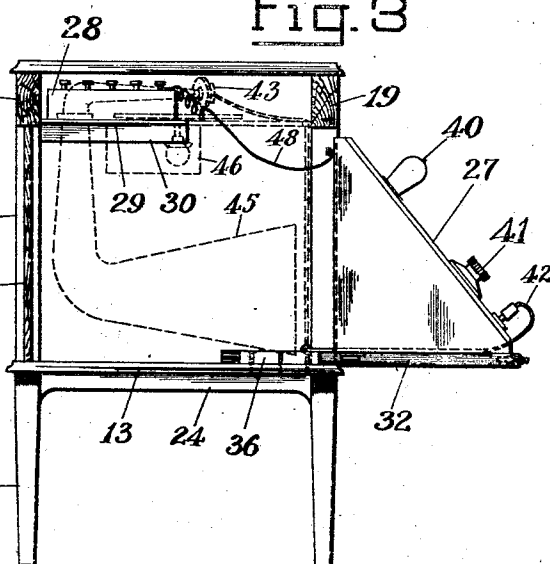
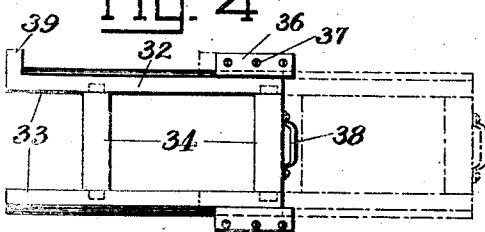


Fig. 4



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COMBINATION PHONOGRAPH AND RADIO.

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This invention relates generally to a combined phonograph and radio receiving set, and more particularly to an instrument in which the phonograph and radio receiving set are contained in the same cabinet, and the employment in such combination of elements capable of and intended for employment in a phonograph construction, and co-ordinately involves either or both, the association with
10 or the attachment to the whole or to a part of a phonograph construction, of mechanism whereby the sound amplifying portions of a phonograph can be employed as a common amplifier for amplifying audio frequency in
15 connection with radio receiving apparatus and for sound reproduction from a phonograph record.

One of the objects of the invention is to provide an instrument to produce good sound reproduction of both kinds, and in which the same horn may be used for both purposes.

Another object is to provide an instrument in which the receiving set and the phonograph are compactly arranged in a cabinet of attractive appearance. The combining of these
25 elements is to economize space and to utilize an amplifier for both purposes.

A further object is to provide a mounting for the radio receiving set to enable the set to
30 be moved out of the cabinet sufficiently to permit easy adjustment and operation thereof.

In the form of the invention illustrated, the receiving set may be used either in the position to which it is brought for adjustment
35 purposes or after such adjustment it may be moved into the cabinet and used in such position.

A further object of the invention is to provide means adapted for and capable of moving the radio apparatus in and out of the cabinet.

Another object of the invention is to provide an improved combination phonograph and radio, which will be compact, simple in construction, economical to manufacture, efficient in operation, and attractive in appearance.

Another object of the invention is to provide means of the character herein described, simple in construction, thoroughly reliable and efficient in its purpose, positive in operation, and inexpensive to manufacture.

With these and other objects in view to be more fully set forth hereinafter, the invention consists in the novel construction, combi-

nation of elements, and arrangement of parts which will be exemplified in the construction hereinafter described in the specification and illustrated in the accompanying drawings considered together or separately.

The inventive idea involved is capable of receiving a variety of mechanical expressions, one of which for the purpose of illustrating the invention, is shown in the accompanying drawings.

The invention will be first described in connection with the accompanying drawings illustrating one embodiment of my invention, wherein similar reference characters are used to designate corresponding parts throughout the several views, and then more specifically defined and indicated in the appended claims.

In the drawings—

Fig. 1 is a view in front elevation of one embodiment of the invention, the door of the radio compartment being open and the casing being broken away to show the batteries, and the door of the amplifying compartment being broken away.

Fig. 2 is an end elevation of the radio end, parts being broken away to show the batteries and the receiving set in its normal position.

Fig. 3 is a view similar to Fig. 2, the receiving set being in position for adjustment.

Fig. 4 is a top plan view of the mounting for the receiving set, the slide being shown in full lines in its normal position and in dot-and-dash lines in advanced position.

According to the illustrated embodiment of the invention, provision is made of a cabinet 10 of console form of which the body has a rear wall 11, side walls 12, a base 13, a top 14 and left and right doors 15 and 16 respectively.

At its corners the cabinet is provided with front posts 17 and rear posts 18 connected at their tops by horizontal frame members 19. The doors 15 and 16 are hinged at their outer edges to the posts 17 and when closed contact with an upright member 20 extending from the base to the top of the cabinet and from which a partition 21 extends to the back of the cabinet. As indicated in Fig. 1, the top 14 may be divided into two parts 14' and 14'' along a line 22 immediately below the base 13 by horizontal members 24 which may also serve to support the base.

The cabinet 10 is divided by the partition 21 into a right compartment 25 which may

contain a suitable phonograph mechanism 46 and amplifier 45, and a left compartment 26 which may be used to accommodate a radio receiving set 27. It should be understood that the bell of the phonograph horn is at the front of compartment 25 and that the revolving turn table 47 is at the top of the compartment 25 so that access thereto may be obtained by lifting the adjacent portion 14" of the top 14.

As shown in Figs. 2 and 3, the radio receiving set 27 is mounted in the compartment 26, the batteries 28 of the receiving set being mounted on a shelf 29 at a greater height than the top of the receiving set and supported by cleats 30 on the partition 21 and the left wall 12.

When it is desired to use the radio receiving set 27, the door 15 is opened by means of a knob 31 thereon and the receiving set 27, after connecting the same with the phonograph horn by means which may include a loud speaker attachment 43 to replace the sound box attached to the tone arm 44 of the phonograph and the receiving set 27 which is in the position shown in Fig. 2, is to a certain extent inaccessible for adjustment. To avoid this objection, the receiving set is mounted so as to be moved to the position shown in Fig. 3, on a slide 32 which comprises side bars 33 connected by cross-members 34, the outer edges of the sides 33 being beveled to underlie beveled edges 35 of short blocks 36 secured by suitable means such as screws 37 to the base 13 of the cabinet. For convenience in handling the receiving set a handle 38 is secured to the forward edge of the front cross-bar 34, and to limit the forward movements of the slide 32 to prevent withdrawal thereof to an extent sufficient to permit dropping of the receiving set 27, provision is made of suitable means such as a lateral projection 39 on one of the bars 33 so that when the slide 32 is moved to its dot-and-dash position, the projection 39 will engage the rear end of the corresponding block 36, as shown in Fig. 4, and prevent the slide from leaving the compartment.

It should be understood that the receiving set may be of a standard form and preferably one which not only produces good sound effects but is of such a shape and size as to fit into the radio compartment without interfering with the design of the cabinet to give the best appearance. According to the illustrated embodiment of the invention, the receiving set 27 has four lamps 50 and adjusting handles 41, a connection 42 for attaching the set to the amplifier and wing 48 for connecting the radio set with the source of electrical energy 28.

In accordance with the provisions of the

patent statutes, I have described the principle of my invention, together with the apparatus which I now consider to represent the best embodiment thereof, but I desire it understood that my invention is not confined to the particular form of apparatus herein shown and described, the same being merely illustrative, and that the invention can be carried out in other ways without departing from the spirit of my invention, and, therefore, I claim broadly the right to employ all equivalent instrumentalities coming within the scope of the appended claims, and by means of which objects of my invention are attained, and the new results accomplished, as herein set forth, as it is obvious that the particular embodiment herein shown and described is only one of many that can be employed to attain these objects and accomplish these results.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A combined phonograph and radio receiving device, comprising a cabinet, a phonograph mechanism including an amplifier built into the cabinet, means for operatively connecting said amplifier to a radio receiving set, a platform mounted for slidable movement alternatively into and out of the cabinet, a stop to limit the outward sliding movement of said platform, and a radio receiving set supported on said platform, said receiving set having an inclined front dial panel, the angle of inclination of said dial panel being such that the rearward top edge of the panel is on a vertical line relative to said stop, whereby said stop operates to restrain further outward movement of said platform when the rearward top edge of said panel reaches a position slightly in advance of the front wall of said cabinet.

2. A combined phonograph and radio receiving device comprising a cabinet, a phonograph mechanism including an amplifier built into the cabinet, means for operatively connecting said amplifier to a radio receiving set, a platform mounted for slidable movement alternatively into and out of the cabinet, a stop to limit the outward movement of said platform, a radio receiving set supported on said platform, said receiving set being enclosed in a casing of triangular cross section, the front dial panel being the oblique wall of said casing, said casing having a front to rear dimension equal to the slidable movement of said platform, whereby outward movement of said platform is stopped when said radio set has been brought to a position outside and in advance of the front wall of said cabinet.

This specification signed this 2nd day of May, 1924.

JOSEPH WOLFF.