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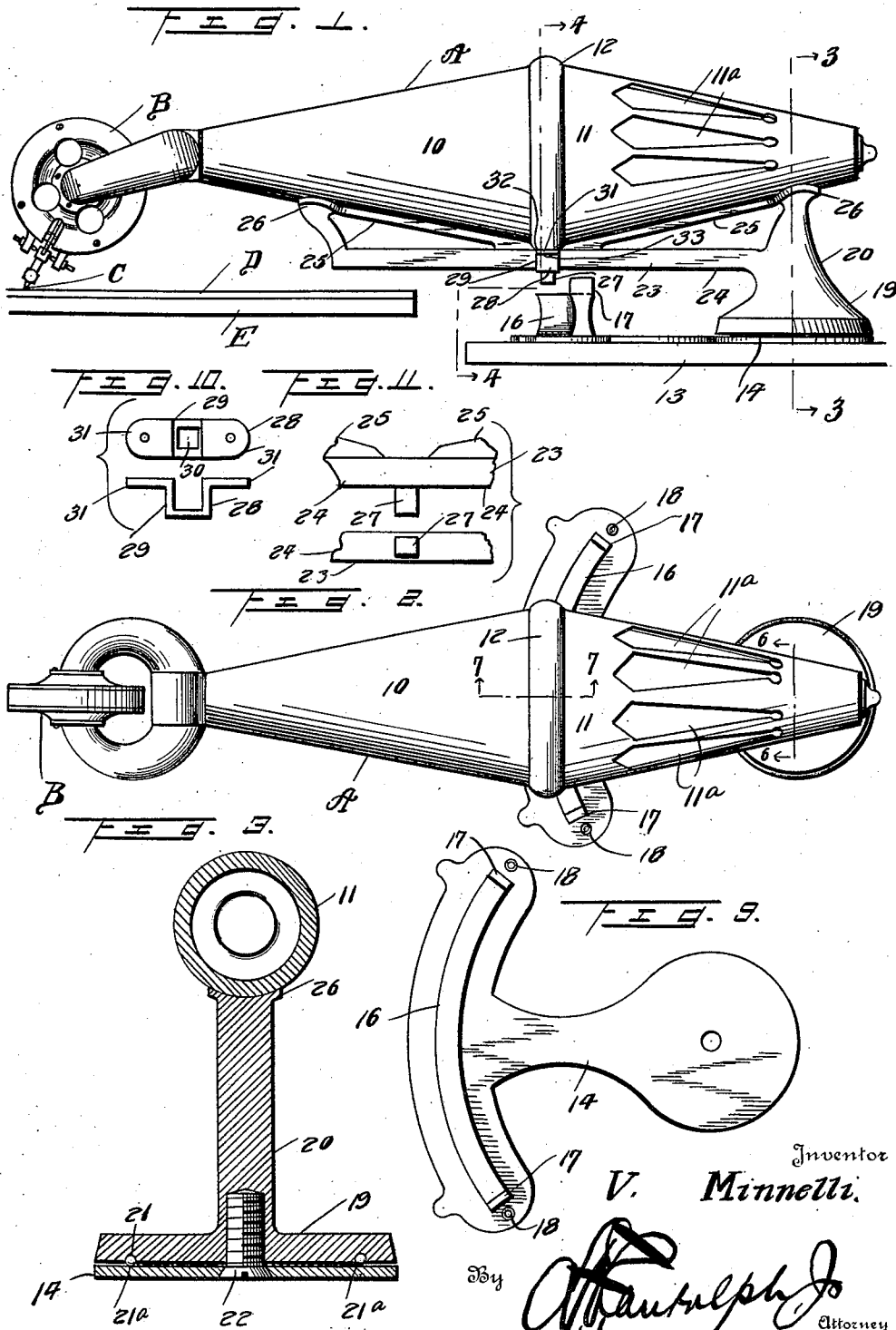
1,456,903

V. MINNELLI

PHONOGRAPH AMPLIFIER MOUNTING

Filed Feb. 4, 1922

2 Sheets-Sheet 1



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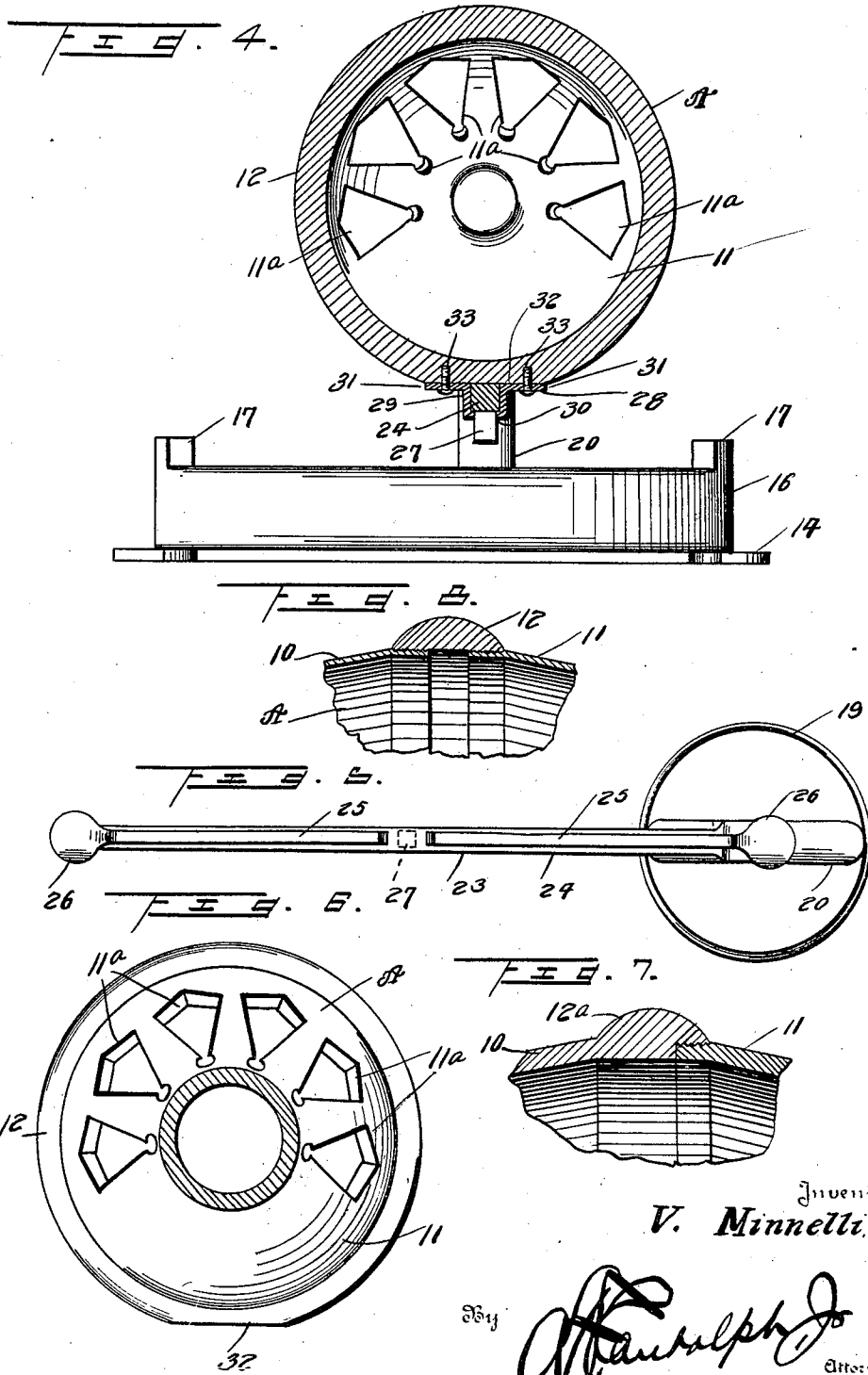
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

VINCENZO MINNELLI, OF PITTSBURGH, PENNSYLVANIA.

PHONOGRAPH-AMPLIFIER MOUNTING.

Application filed February 4, 1922. Serial No. 534,138.

To all whom it may concern:

Be it known that I, VINCENZO MINNELLI, a citizen of the United States, residing at Pittston, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in a Phonograph-Amplifier Mounting; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a mounting or supporting means for phonograph amplifiers.

A prime object is to provide means which may be efficiently disposed on and secured to a support separate from as well as on a phonograph cabinet, when desired, for mounting a phonograph amplifier, particularly of the general type covered by Letters Patent No. 1,395,053 issued to me on October 25, 1921, in order that such an amplifier may be used as an attachment for and in place of the usual amplifier means of phonographs to enable the advantages of such an improved amplifier to be attained in existing phonographs as well as one which is initially equipped with such an amplifier.

Another object is to provide in an article of this kind a base to swivel a supporting pedestal or frame, and with cooperating means on the base and securing means for sections of the amplifier to limit the swinging movement of the amplifier.

Additional objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawings illustrating one practical embodiment.

In said drawings:—

Figure 1 is a side elevation illustrating my improvements in connection with a phonograph turn table and with the mounting secured to a support separate from the phonograph cabinet;

Figure 2 is a plan view of the amplifier and mounting, the turn table and support of Figure 1 being omitted;

Figure 3 is a cross sectional view on the line 3—3 of Figure 1;

Figure 4 is a cross sectional view on the line 4—4 of Figure 1;

Fig. 5 is a top plan view of the amplifier support.

Figure 6 is a cross sectional view on line 6—6 of Figure 2;

Figure 7 is a cross sectional view on line 7—7 of Figure 2;

Figure 8 is a view similar to Figure 7 but taken through a modified form;

Figure 9 is a plan view of the base section;

Figure 10 illustrates the amplifier attaching bracket in plane and inside elevation; and

Figure 11 fragmentarily illustrates the supporting arm at the stop lug in side elevation and inverted plan.

Like reference characters designate like or similar parts in the different views.

An amplifier is shown at A which is of the general type disclosed in my Patent No. 1,395,053, issued to me on October 25, 1921. The particular construction of this amplifier may be varied of course. By way of example, it consists of substantially conical hollow body sections 10 and 11 joined in any suitable manner as at their bases, for instance by means of connecting ring or nut 12 screw threaded thereto, as shown best in Figure 8. The nut as at 12^a in Figure 7 may be integral with one of the sections and screw threaded to the other. Operatively connected to the section 10 is a sound box B of any suitable construction, adapted to carry a stylus at C for cooperation with records D disposed on a turn table E and adapted to be operated in any suitable manner. The amplifier A may be mounted in and on a phonograph cabinet but as shown, it may also be mounted on a support 13 separate from the phonograph cabinet so that when the amplifier A is used in place of the amplifier built into the cabinet it can be mounted on means other than the cabinet. Such support 13 may be a window sill, table, stand or the like.

One or more sound escape openings may be provided in one or both of sections 10 and 11 for instance as at 11^a in section 11. These openings more efficiently direct the sound when they are substantially triangular and disposed as shown or in other words decreased in width in proportion to the decrease in area of the amplifier section. The openings may be fanciful in outline if desired.

The mounting employed consists of a

base section 14 primarily a relatively thin sheet of metal having an arcuate wall at 16 which serves to rigidify or reinforce the sheet. Wall 16 has upstanding lugs or stops 5 17. The base plate 14 may be case, otherwise provided in a single piece or the wall 16 may be attached thereto. Such base plate is preferably rigidly attached to the support as by means of screws or other fastening elements passed through holes 18 10 therein. A pedestal or supporting frame is provided at 19. Such pedestal may have a standard 20 recessed at 21 in its lower face to contain bearing balls 21^a to engage base 15 14 so that the standard may turn or swivel thereon with minimum friction. In order to fasten the base plate 14 and support 15 against accidental detachment, a set screw or the like 22 may be passed through the 20 base and into the standard 20. Such screw is loose in the base 14 so as not to interfere with turning of the support relatively to the base.

Extending integrally and laterally from 25 the standard 20 and across wall 16 is the lower section 23 of a supporting arm generally designated 24. Integral with the arm section 23 are inclined supporting arm sections 25 which conform to the inclina- 30 tions of sections 10 and 11 to directly engage the same preferably being dished as at 26 at the outer end portions, to further conform to the exterior shape of such sections 10 and 11. Integral with and depending from the arm 24 is a stop lug 27 35 which is interposed between the stop lugs 17 and adapted to abut the same to limit the swinging movement of the amplifier A.

In order to rigidly fasten the amplifier 40 to the supporting section 19, a bracket 28 is provided. This bracket has an offset portion 29 to surround and embrace the arm 24 and it has an opening 30 therethrough through which lug 27 projects. Bracket 28 45 further has fastening tangs at 31 which are disposed against a flat portion 32 of the ring 12 and screwed or otherwise fastened thereto as at 33.

In operation the sound box B, stylus C, 50 record D and turn table E cooperate in the usual manner so that the sound travels into section 10 and then into section 11 escaping therefrom as through openings 11^a. The necessary lateral swinging movement 55 for the amplifier is afforded by its swivel mounting of the standard 20 on base plate 14. Such swivel movement is limited how-

ever by the provision of lug 27 to cooperate with the lugs 17, the latter being disposed in the path of movement of the 60 former.

It will be realized that the mounting efficiently enables an amplifier of the general type shown to be supported not only 65 within a phonograph cabinet as a part of the phonograph but in addition, it enables the amplifier A to be fastened to an auxiliary support with its recorder in operative relation to a turn table of any other type or style of phonograph, regardless of the 70 type or style of amplifier initially built thereinto.

It will be understood that changes within the details, combination and arrangement of the parts may be resorted to within the 75 spirit and scope of the invention.

What is claimed is:—

1. An amplifier mounting consisting of a supporting means, in combination with a stop lug extending from the supporting 80 means, a bracket having an opening through which said stop lug projects, and said bracket embracing said supporting means and extending from the amplifier.

2. An amplifier mounting consisting of a 85 supporting means, a stop lug depending from said means, stop means cooperating with said stop lug, an attaching bracket having an opening through which said stop lug projects, said bracket embracing said 90 supporting means, an amplifier on said supporting means, and said bracket extending from said amplifier.

3. An amplifier mounting consisting of an attaching base, a standard swiveled on 95 said base, a wall rising from said base having stop members at the terminals thereof, an arm extending laterally from said standard over said wall, said arm having a stop lug depending therefrom and engageable with 100 said stop means, said arm having arm sections with amplifier-engaging surfaces in intersecting planes, an amplifier engaging said surfaces, a bracket extending from said amplifier and surrounding said arm, and 105 said bracket having an opening through which said stop lug projects.

In testimony whereof I affix my signature in presence of two witnesses.

VINCENZO MINNELLI.

Witnesses:

MARCO DORIO,

GIUSEPPE RUGGIERO.