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A. S. MARTEN.

HORN SUPPORT.

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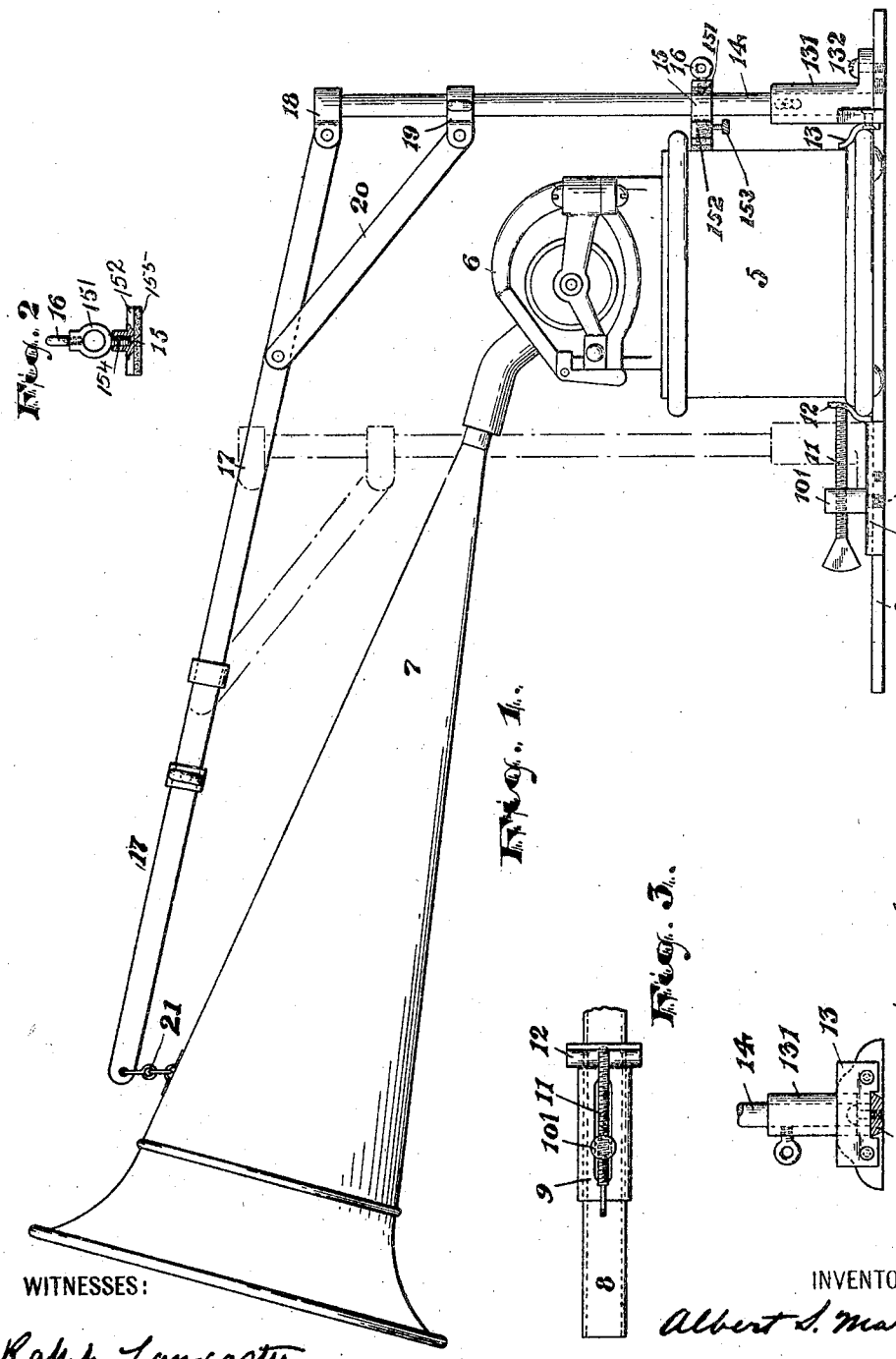


Fig. 2.

Fig. 1.

Fig. 3.

Fig. 4.

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HORN-SUPPORT.

No. 820,511. Specification of Letters Patent. Patented May 15, 1906.

Application filed November 19, 1904. Serial No. 233,473.

To all whom it may concern:

Be it known that I, ALBERT S. MARTEN, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Horn-Supports; 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, reference being had to the accompanying drawings, and to numerals of reference marked thereon, which form a part of this specification.

The objects of this invention are to enable the amplifying-horn to be held in operative relation to a talking-machine with greater security, to prevent any rattling of parts whereby the sound from the said talking-machine is interfered with, to provide a simple structure and one readily adjusted in its relation to the case of the talking-machine, and to obtain other advantages and results, some of which may be hereinafter referred to in connection with the description of the working parts.

The invention consists in the improved horn-support and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth, and finally embraced in the claims.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the figures, Figure 1 is a side elevation showing the improved horn in connection with the box or case and the horn-support of a talking-machine. Fig. 2 is a detail plan of an adjustable steadying-bearing. Fig. 3 is a plan of a bottom clamp member, and Fig. 4 is an inside elevation of another clamp member.

In said drawings, 5 indicates the box or case of a talking-machine 6, and 7 represents an amplifying-horn in connection with said talking-machine. Underneath said box or case is arranged a horizontal base-piece 8, which projects out beyond the sides of the case to a greater or less extent, as may be necessary to prevent the said case and its contents from tipping under the weight of the horn, the said base-piece being adapted to lie against the floor or table on which the case 5 stands.

At one side of the case the base-piece 8, which is beveled at its longitudinal edges, is provided with a post 10, rigidly secured thereto and to a slotted sliding or slidable clamp-plate 9. The said post is reduced in diameter and threaded at its lower end to enter a correspondingly-threaded hole in said base-piece, the head or enlargement 101 at its upper end resting down on the top of the sliding plate to give rigidity to the post and set the sliding clamp-plate 9 in position. The slot in said sliding clamp-plate permits an adjustment of said plate with respect to said post and the box or case 5 when the post is unscrewed. Said clamp-plate at its inner end is provided with an upwardly bent or inclined clamping-lip 12, adapted to engage and overlie the molding at the bottom of the said box or case. The head 101 is horizontally perforated and threaded, and in the perforation is arranged a horizontal clamping thumb-screw 11, which engages the said lip 12. The one rigid post thus serves the double function of a set-screw and seat for a clamp-screw. At a point on the base-piece 8 distant from the lip 12 is a second lip or bearing 13, preferably secured to an adjustable socket 131, secured by a set-screw 132 upon the base-piece, the lip 13 being adapted to engage the side of the case 5 opposite from that engaged by the lip 12.

The socket 131 is adapted to receive and hold erect the post 14, and to give greater firmness to the post in its relation to the case 5 I have provided an adjustable steady rest or bearing 15, adapted to be set on said post 14 by the set-screw 16 and to be thrown firmly against said box or case by the adjusting-screw 11. Said steady-rest 15 is of simplified construction over that, for example, shown by Eichhorn in Patent No. 763,096, in that it is independent of the means for holding the post 14 erect and is adjustable vertically on said post 14. Said steady-rest 15 comprises two sections, the section 151 of which is perforated to receive the post 14, is transversely perforated and threaded to receive a set-screw 16, by means of which said section is fixed on said post 14, and on the side opposite said set-screw is provided with a threaded arm 154, Fig. 2, to receive a female part of the section 152. Thus the said female part, which extends for a considerable distance perpendicular to the arm 154 of the male part in opposite directions, presents a long bearing to the box or case, and thus the latter will not readily be injured thereby, especially should said bearing be lined or cushioned, as at 155. By turning

the section 152 on the threaded arm the bearing is brought into more intimate relation to the box or moved from such relation as may be desired. When adjusted, the section 152 may be fixed upon the section 151 by means of the set-screw 153, and when the part 152 is raised or lowered with reference to the desired point of bearing on the box 5 the set-screw 16 is turned to fasten the steady-rest to the post 14.

At the upper end of the post 14 is arranged an adjustable horizontal arm 17, pivoted on a sliding collar 18 and braced by a brace 20, pivoted on said arm and on a sliding collar 19 in any suitable manner. At the free or projecting end of the arm 17 the same is provided with means 21 for supporting the large end of the horn.

Having thus described the invention, what I claim as new is—

1. The combination with a base-piece adapted to extend beneath and out beyond the sides of a talking-machine case, of a post arranged on said base-piece and having means for supporting a horn and having a lip or bearing against which one side of the case may bear, a slotted sliding plate also arranged on said base-piece and having a lip to engage the opposite side of the case, a post 10, extending through the slot in said slotted plate and serving as a set-screw adapted to fix the sliding plate in its relation to the base-piece, said post having, through the head thereof, a horizontal threaded perforation, and a screw arranged in said perforation and engaging the lip of the sliding plate, substantially as set forth.

2. The combination with a base-piece adapted to extend beneath and out beyond the sides of a talking-machine case, of a vertical post arranged on said base-piece and having means to support a horn, means for clamping said base-piece to the opposite sides of the box, and a steady-rest arranged directly on said post free and independent of said base-piece and consisting of two sections, one of which is directly slidable and free of any base-piece connections to slide on the post and has a set-screw for fixing it to said post, and the other section of which is horizontally adjustable on said slidable section, and means for setting one section in its relation to the other section.

3. The combination with a base-piece adapted to extend beneath and out beyond the sides of a talking-machine case, of a vertical post arranged on said base-piece and having means to support a horn, means for clamping said base-piece to the oppo ite sides of the box, and a steady-rest vertically adjustable on said post and consisting of two sections one slidable on said post and having a set-screw, and a threaded arm, and the other arranged on said threaded arm and having a set-screw for fixing it thereon, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of November, 1904.

ALBERT S. MARTEN.

Witnesses:
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