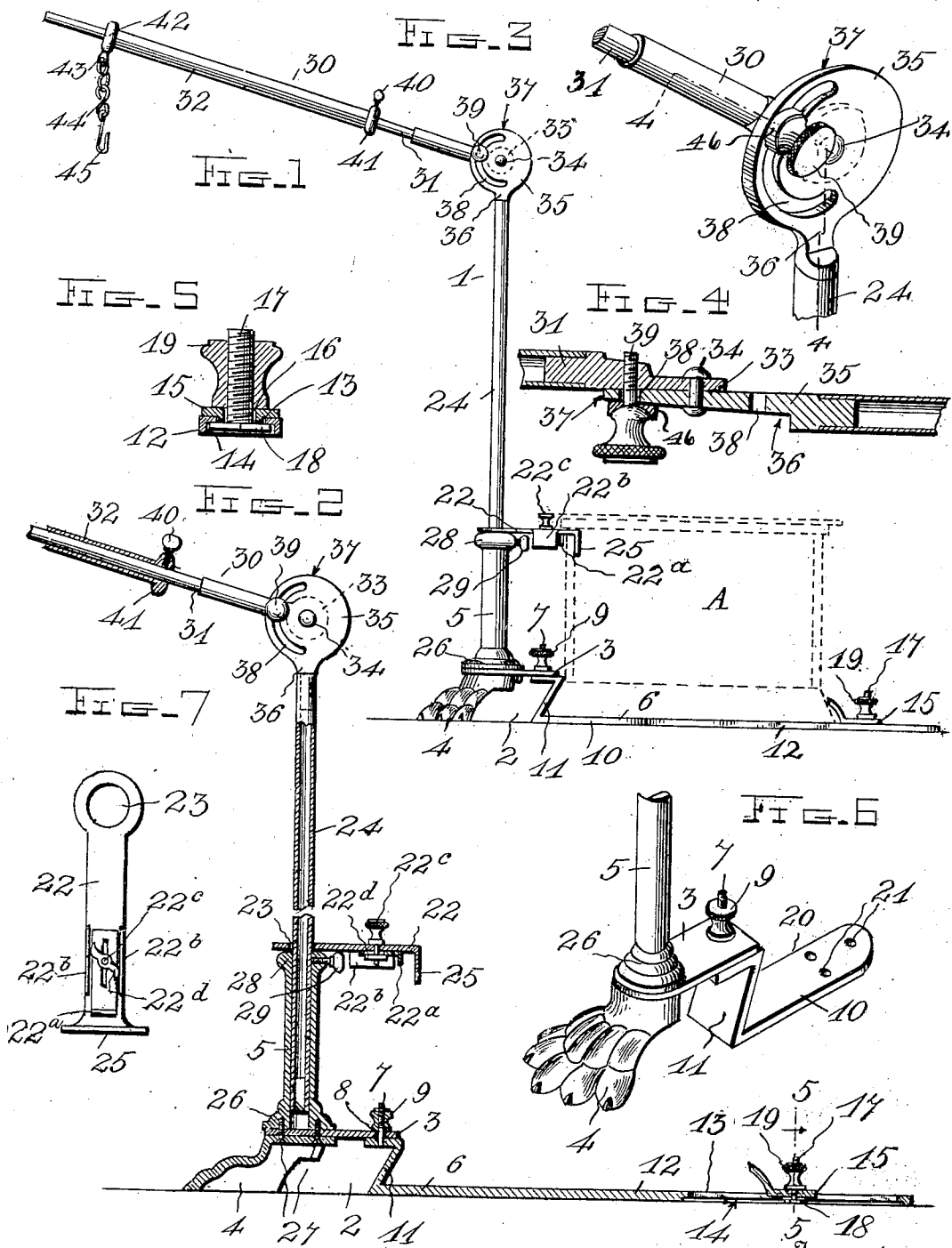


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R. L. HAMMOND.
HORN SUPPORT.

APPLICATION FILED AUG. 28, 1905.



Witnesses
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HORN-SUPPORT.

No. 835,678.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT L. HAMMOND, a citizen of the United States, residing at Woodsboro, in the county of Frederick and State of Maryland, have invented certain new and useful Improvements in Horn-Supports; and I do 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.

My invention relates to improvements in horn-supports or cranes for talking-machines of all kinds.

The object of the invention is to provide a simple and convenient device of this character which is universally adjustable, so that it may be quickly and easily applied to the body-box of any talking-machine and its parts adjusted to hold a horn of any size in the proper position.

A further object of the invention is to improve and simplify the construction and operation of devices of this character, and thereby render the same more efficient and durable in use and less expensive to manufacture.

With the above and other objects in view the invention consists of certain novel construction, combination, and arrangement of devices hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a view showing the application of the support or crane to the body-box of a talking-machine, said box being indicated in dotted lines. Fig. 2 is a vertical sectional view on an enlarged scale through the device. Fig. 3 is a perspective view of the clamping device for the pivoted horn-supporting arm. Fig. 4 is a detail sectional view taken on the plane indicated by the line 4 4 in Fig. 3. Fig. 5 is a detail sectional view taken on the plane indicated by the line 5 5 in Fig. 2. Fig. 6 is a detail perspective view of a slightly-modified form of base, and Fig. 7 is a bottom plan view of the brace-bar.

Referring more particularly to the drawings, the numeral 1 denotes my improved horn support or crane, which is adapted to be attached to the body-box A of a talking-machine of any description. The device 1 comprises a base 2, consisting of a flanged plate 3, a leg or foot 4, an upright tubular holder 5, and a clamp 6. The clamp 6 is adapted to engage the under side of the bottom or base of the body-box A and is prefer-

ably adjustably secured to one end of the plate 3 by means of a screw 7, which is carried by the clamp 6 and passes through an opening 8, formed in the plate 3, and is adapted to receive a clamping-nut 9, as clearly shown in Fig. 2 of the drawings. The clamp 6 is in the form of a strip or plate of metal which has at one end an enlargement 10, bent or offset angularly, as shown at 11, so as to overhang and engage the molding upon the bottom of the body-box A. The opposite reduced end 12 of the clamp 6 is formed with a longitudinal slot 13 and its under face, adjacent to said slot, is grooved or recessed longitudinally, as shown at 14 in Fig. 5 of the drawings. Upon said end 12 of the clamp is adjustably mounted a slidable clamping jaw-plate 15, which is adapted to engage the molding upon the body-box A, as shown in Fig. 1 of the drawings. This jaw slides upon the top of the clamp and has its inner end bent upwardly and inwardly to engage said molding. The main portion of the jaw-plate may be slightly bowed, as shown, and is formed with an aperture 16 to receive a clamping-bolt 17. The latter projects through the slot 13 and the aperture 16 and has a polygonal-shaped head 18, which slides in the grooves 14 in the clamp. Upon the upper end of the screw 17 is provided a clamping-nut 19, which is adapted to bind the parts together to secure the jaw-plate 15 in any adjusted position. By providing the angular or offset portion 11 of the clamp and the adjustable jaw-plate 15 it will be seen that the device may be clamped upon the bases or bases and bodies of talking-machines of any size and make.

Instead of employing the clamp 6 (shown in Figs. 1, 2, and 5 of the drawings) I may use the attaching means 20. (Shown in Fig. 6 of the drawings.) This attaching means is very similar to the one just described, the only difference being the omission of the jaw-plate 15 and the reduced end 12 of the clamp and the provision of screw or bolt holes 21 in the enlarged portion 10 of the clamp. It will be seen that when this fastening means is employed screw-bolts or the like are passed through the openings 21 and the bottom or base of the box A.

If desired, the device may be further connected to the body-box A by means of a brace-bar 22. The latter is in the form of a plate or strip of metal, which is apertured at one end, as shown at 23, to receive a tubular

standard 24, provided in the upright holder 5, and which has at its opposite end a downturned portion or hook 25, which is adapted to engage the inner face of the side wall of the body-box A and form one member of a clamping device. The other member of this clamp is in the form of a small slotted plate 22^a, which slides upon the bottom of the arm 22 between guide-flanges 22^b, formed upon the latter, as shown in Fig. 7 of the drawings. A clamping-screw 22^c passes through an opening in the arm and the slot in the plate 22^a and has its threaded end engaged with a threaded opening in a cam-plate 22^d, which is disposed between the flanges 22^b and adapted to frictionally engage them to hold the sliding plate 22^a in an adjusted position against the outer face of the side wall of the body-box A, as seen in Fig. 1 of the drawings. This brace-arm 22 may be readily applied and removed, so that it may be used or omitted, as desired.

The upright holder 5 is tubular in form and has an enlarged base 26, which rests upon the plate 3 at one end and is secured thereto by a series of screws 27, which are passed upwardly through the leg or foot 4, the plate 3, and into screw-threaded recesses in said base 26, as shown in Fig. 2 of the drawings. If desired, these parts may be cast or molded in one piece. The base 26 and the leg or foot 4 are preferably ornamental, the latter, as shown, being in the form of a claw, which is adapted to rest upon the table or other support upon which the talking-machine is placed. Upon the upper end of the upright tubular holder 5 is an annular enlargement or collar 28, which is formed at the side or directly in front with a screw-threaded opening to receive a clamping-screw 29. The latter has a finger-piece at its outer end and at its inner end is adapted to engage the standard 24, which telescopes within the holder 5, and which is vertically adjustable therein by means of said screw 29.

The upright 24 is preferably tubular in form and has adjustably pivoted upon its upper end an extensible horn-supporting arm 30. This arm 30 swings vertically and consists of inner and outer telescoping members or sections 31 and 32, the former being solid and the latter being tubular, so as to telescope over the same. The inner section 31 has at its inner end an enlargement 33, which is pivotally connected by a rivet or the like 34 to the center of an enlargement of head 35, provided upon the upper end of the standard 24. This enlargement or head 35 is in the form of a disk, which is beveled or wedge-shaped from one side 36, which is connected to the standard 24 to its diametrically opposite side 37. This circular plate or disk is formed in one-half with a substantially semicircular slot 38, which is arranged concentrically with the pivot 34, and is adapted

to receive a clamping-screw 39, which is carried by the head or enlargement 33 upon the arm 30. This screw 39 has a rounded head to engage a concaved washer 46, which bears against the inclined face of the wedge-shaped disk 35, and its threaded end passes through the slot 38 and into the threaded opening formed in the enlargement 33, as clearly shown in Fig. 4 of the drawings.

It will be seen that by providing the slot 38 and the screw 39 the arm 30 may be adjusted in an angular position with respect to the upright 24, and that owing to the taper or wedgeshape of the disk 35 these parts will be clamped more firmly as the arm 30 is swung downwardly, the gradually-increasing thickness of said disk serving as a wedge, which works between the washer and the inner face of the enlargement 33, as will be readily seen upon reference to Figs. 1 and 3 of the drawings. The outer section 32 of the arm 30 slides upon the section 31 and may be adjustably secured at any desired point thereon by means of a set-screw 40, which passes through the threaded opening formed in an annular enlargement or collar 41, provided upon the inner end of the section 32. The section 32 is of less length than the section 31 and has its outer end open, as shown, so that it may be reversed upon the section 31 to permit very small horns to be supported. Upon said outer end is provided an annular enlargement or collar 42, in which is secured a screw-eye 43. To said screw-eye is connected a short chain 44, upon the end of which is a hook 45, adapted to engage an attaching device upon the horn of the talking-machine.

The construction, use, and advantages of the invention will be readily understood by reference to the accompanying drawings.

It will be seen that the device may be applied to talking-machines of any description, and that its parts may be quickly and easily adjusted to firmly support any size horn in any desired position.

Owing to the connection of the device to the bottom of the body-box A the weight of the latter will hold the support in an upright position, and there will be no liability of the machine overturning even when the leg or foot 4 is not resting upon the table or other support. By means of the set-screw 29 the arm 30 and its standard 24 may be swung or adjusted angularly in a horizontal plane, by means of said set-screw the standard 24 may be also adjusted vertically, by means of the set-screw 39 the arm 30 may be adjusted angularly in a vertical plane, and by means of the set-screw 40 the length of the arm may be adjusted according to the size of the horn.

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

1. A horn-support having a standard provided with a head having vertical sides which

converge in one direction, a horn-supporting
arm pivoted to said head, a clamping-screw
engaging a threaded opening in said arm and
having a head, and a washer between and
5 frictionally engaging the standard-head and
the clamping screw-head, said screw-head
and washer having curved coengaging sur-
faces adapting the washer for angular mo-
tion on the screw-head, substantially as de-
10 scribed.

2. A horn-support having a foot member,
a plate projecting therefrom, a clamp for at-
tachment to the body of a talking-machine

and detachably secured to the plate, a tubu- 15
lar upright holder projecting from the foot
member, a standard vertically adjustable in
the said holder, and a horn-supporting arm
carried by the standard, substantially as de-
scribed.

In testimony whereof I have hereunto set 20
my hand in presence of two subscribing wit-
nesses.

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Witnesses:

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C. A. WELKER.