

A. S. MARTEN.

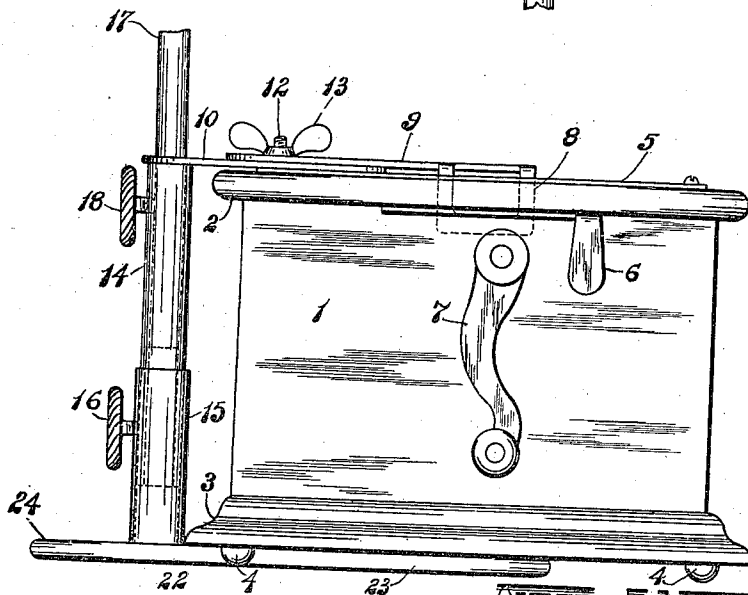
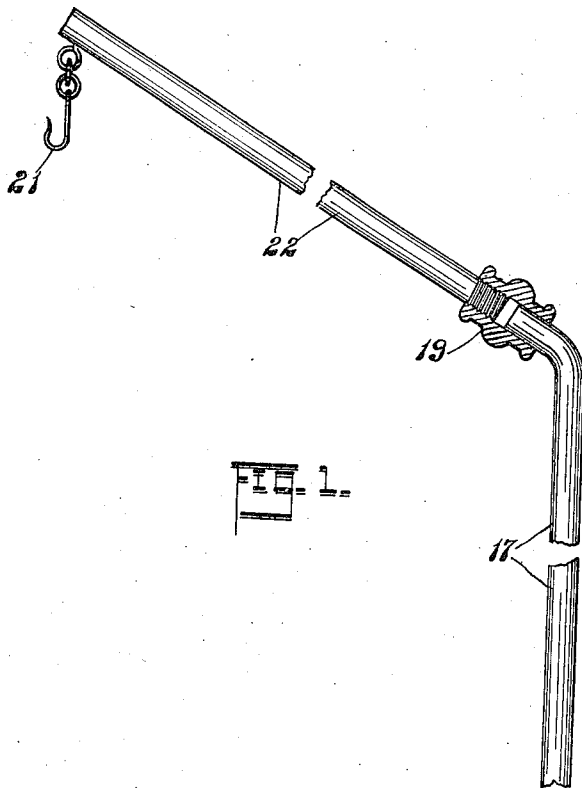
HORN CRANE.

APPLICATION FILED NOV. 17, 1906.

972,886.

Patented Oct. 18, 1910.

2 SHEETS—SHEET 1.



Witnesses
Ethel B. Reed
Arthur F. Weaver.

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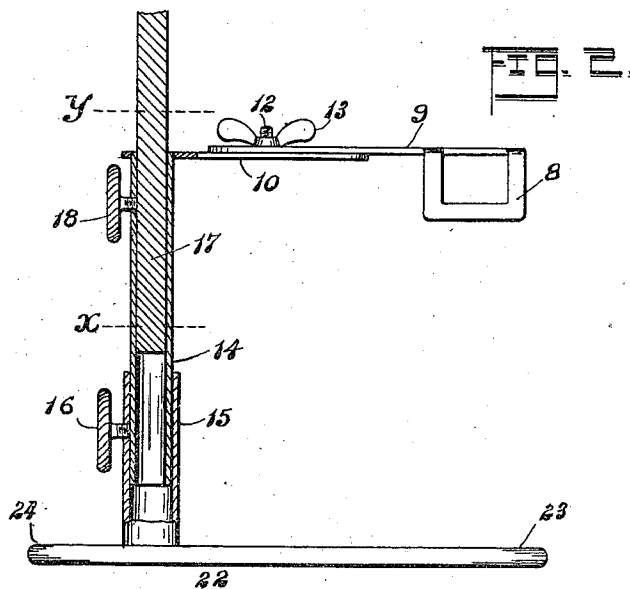
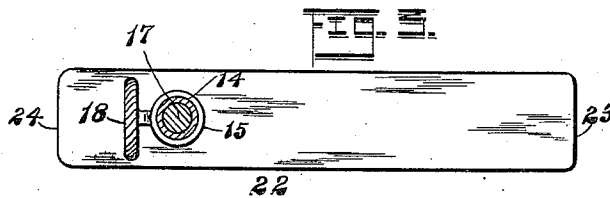
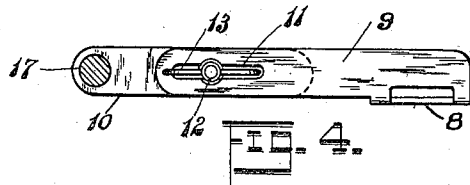
By his Attorney Russell M. Everett.

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2 SHEETS—SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

ALBERT S. MARTEN, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO THE TEA TRAY COMPANY OF NEWARK, N. J., A CORPORATION OF NEW JERSEY.

HORN-CRANE.

972,886.

Specification of Letters Patent.

Patented Oct. 18, 1910.

Application filed November 17, 1906. Serial No. 343,785.

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-Cranes, of which the following is a specification.

The objects of the invention are to provide a horn crane which shall utilize the cover-holding slots of the cabinet for its attachment to the said cabinet; to secure a horn crane, which in addition to engaging the said slot, shall also rest upon the table or other supporting surface on which the machine stands and exert the most of its strain thereon; to thus take the weight and pressure of the horn off of the cabinet to a large extent and place it upon the table or supporting surface; to secure an adjustable construction which can be fitted to machines of different sizes, and to obtain other advantages and results as may be brought out in the following description.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several drawings, Figure 1 is an end view of a phonograph cabinet or case showing a horn crane of my improved construction applied thereto; Fig. 2 shows the attaching portion of the horn crane separate from the machine or cabinet, and partly in central vertical section; Fig. 3 is a horizontal section on line *x*, Fig. 2, and Fig. 4 is a similar horizontal section on line *y*, Fig. 2.

In said drawings, 1 indicates a talking-machine box or cabinet having upper and lower moldings, 2, 3, and feet 4 at its bottom. The usual plate 5 is upon the top of the machine, and in this plate, adjacent to the two ends of the machine, are the usual vertical slots to receive the hasps of the cover, (not shown), keys 6 being pivoted at the ends of the machine under the top molding 2 to swing in horizontal plane into and out of locking engagement with the said hasps. All said parts are old and well known in the art, and the motor-winding handle 7 will aid in locating them upon the accompanying drawing.

In carrying out my invention, I provide a flat horizontal arm of sheet metal adapted to lie along the top of the talking-machine cabinet adjacent to its end, and having at

its rear a downwardly bent apertured portion 8 forming a hasp adapted to enter the cover-holding slot before described. The said arm is preferably in two sections 9, 10, overlapped at their adjacent ends, and one being slotted, as at 11, to receive a short threaded stud 12 on the other, a nut 13 on said stud enabling the two sections to be clamped in any desired position. This construction enables the length of the horizontal arm to be adjusted to suit different sizes of machines. The end of the said horizontal arm opposite the one which engages the cover-holding slot, projects forwardly from the machine, and through it passes the vertical horn supporting means proper, said means extending downward into engagement with the table top, and upward to provide attachment for the suspension of the horn. Preferably the said supporting standard is; from the horizontal arm downward, adjustable as to length, so as to enable it to always properly engage the table for all heights of machines. This I have shown accomplished in the drawings by an upper tubular portion 14 fast to the horizontal arm 10, and a lower telescoping section 15, a set screw 16 enabling said sections to be clamped in desired relation. A solid rod 17 then enters the top of the upper section 14, being held by a set screw 18, and at its upper end receives as by a screw-coupling 19, an upper inclined arm 20 provided at its extremity with a hook 21 to receive and support the horn.

The lower section 15 of the vertical standard is preferably provided with a flat foot piece 22, which extends in under the talking-machine cabinet, as at 23, and also outward away from the cabinet, as at 24. By the use of this base piece, increased stability and firmness is given the horn crane.

In applying my improved horn crane to a talking machine, the foot piece 22 is slid under the machine, and the upper horizontal arm overlies the top plate 5 of the machine, the hasp 8 entering the cover-holding slot and preferably being locked by swinging the key 6. The sections 9, 10, of the arm are then adjusted if necessary and the nut 13 clamped tight. Then the upper and lower tubular sections 14, 15 are slid together, so as to clamp the cabinet between the horizontal arm and the foot-piece 22, the set screw 16 being afterward tightened to retain such

relationship. This last clamping step secures greater rigidity of the horn crane, but obviously it could be omitted if desired. The rod 17 is then adjusted to a suitable height and direction to receive the large end of the horn.

Having thus described my invention, what I claim as new is;

1. In a horn crane, the combination with a standard adapted to extend upward from the table or other supporting surface upon which a talking machine stands, of an arm adapted to project from said standard over the top of the talking machine cabinet and having an apertured end portion to enter the cover holding slot thereof and receive the locking key, said arm being in sections which are longitudinally adjustable independent of said attachment of the arm to the cabinet at its cover-holding slot.
2. In a horn crane, the combination with an arm adapted to extend over the top of the talking machine cabinet and having an end portion to enter the cover-holding slot thereof, said arm comprising sections longitudinally adjustable with respect to each other, and means for clamping them, of a standard extending upward from said arm to receive an amplifying horn and downward from said arm to engage the table or other supporting surface upon which the machine stands.
3. In a horn crane, the combination of a standard comprising upper and lower sections longitudinally adjustable upon each other, means for clamping said sections in fixed relation to each other, a base piece on the lower section adapted to extend under a talking machine and to project forwardly therefrom in engagement with the table or other surface upon which the machine stands, an arm upon the upper section adapted to project over the top of the talking machine and having a portion to enter the cover-holding slot thereof, and a horn supporting rod adjustable upon said upper section of the standard independent of the lower section and its relation to said upper section.
4. In a horn crane, the combination of a standard comprising upper and lower telescopic sections, the lower section having a base piece adapted to extend under the talking-machine and to project forwardly therefrom in engagement with the table or other surface upon which the machine stands, and the upper section having an arm adapted to project over the top of the talking-machine and provided with a portion to enter the

cover-holding slot thereof, said arm being in longitudinally adjustable sections, and a horn-supporting arm or rod on said standard.

5. In a horn crane, the combination of a base piece adapted to extend under a talking machine and to project forwardly therefrom in engagement with table or other surface upon which the machine stands, a socket projecting upwardly from said base piece with a circular chamber, a round tubular upper section having its lower end slidably and rotatably fitting said chamber of the socket, a fixed arm on said tubular upper section adapted to project over the top of the talking machine and having a portion adapted to enter the cover-holding slot thereof, a horn-supporting rod having a round lower end slidably and rotatably fitting said tubular upper section, and set screws one working through the wall of said upper section against said end of the horn-supporting rod and another working through the wall of said socket against said lower end of the upper section.

6. In a horn crane, the combination with a standard adapted to extend upward from the table or other supporting surface upon which a talking machine stands, of an arm adapted to project from said standard over the top of the talking machine cabinet and comprising thin flat sections disposed in substantially horizontal planes and adapted to lie flatwise upon the cabinet, the separated ends of said sections being one fixed to the standard and the other provided with a portion adapted to enter the cover-holding slot of the talking machine and the adjacent ends of said sections overlapping each other and one being slotted longitudinally, a clamping bolt projecting through said slot from the other section, and a clamping nut on said bolt.

7. In a horn crane, the combination with a standard adapted to extend upward from the table or other supporting surface upon which a talking-machine stands, of an arm projecting from said standard, said arm comprising a thin flat body portion adapted to extend over the top of a talking machine cabinet in a substantially horizontal plane, and an integral extension at one lateral edge of said body-portion in a plane at right angles thereto, said extension being apertured and adapted to enter the cover holding slot of the cabinet.

ALBERT S. MARTEN.

In the presence of—

FREDERICK GERMANN, Jr.,
ETHEL B. REED.