No. 846,926. PATENTED MAR. 12, 1907.

O. KRAUS.

HORN SUPPORT FOR TALKING MACHINES.

APPLICATION FILED JULY 18, 1906.

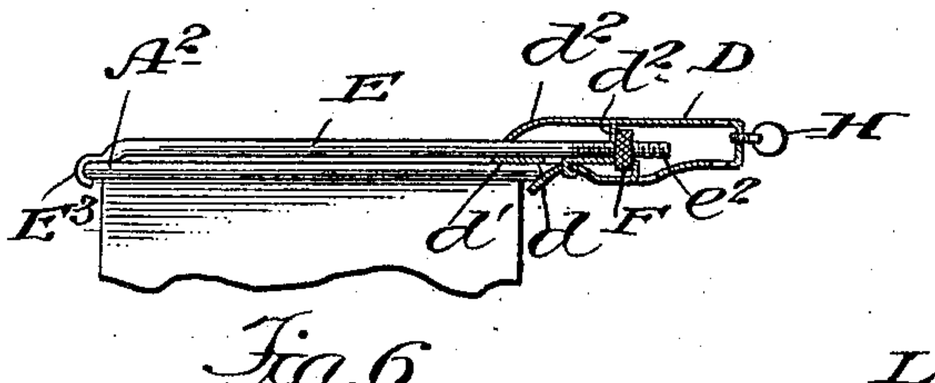

Fig. 6.

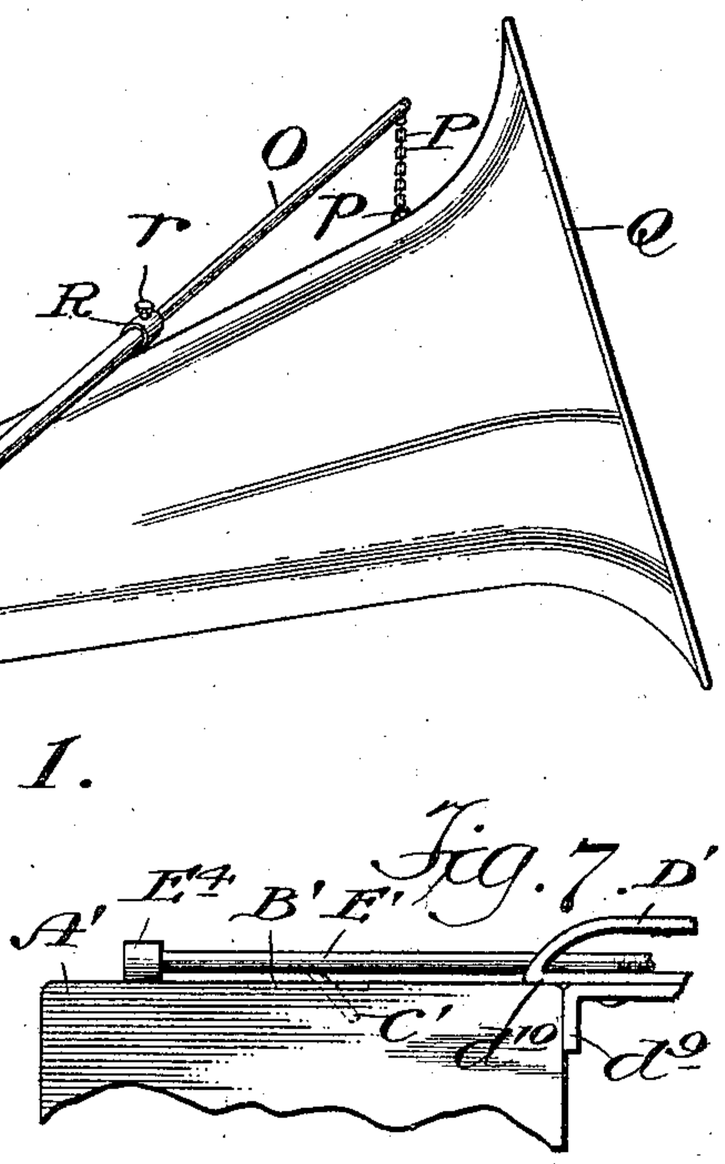

Fig. 1.

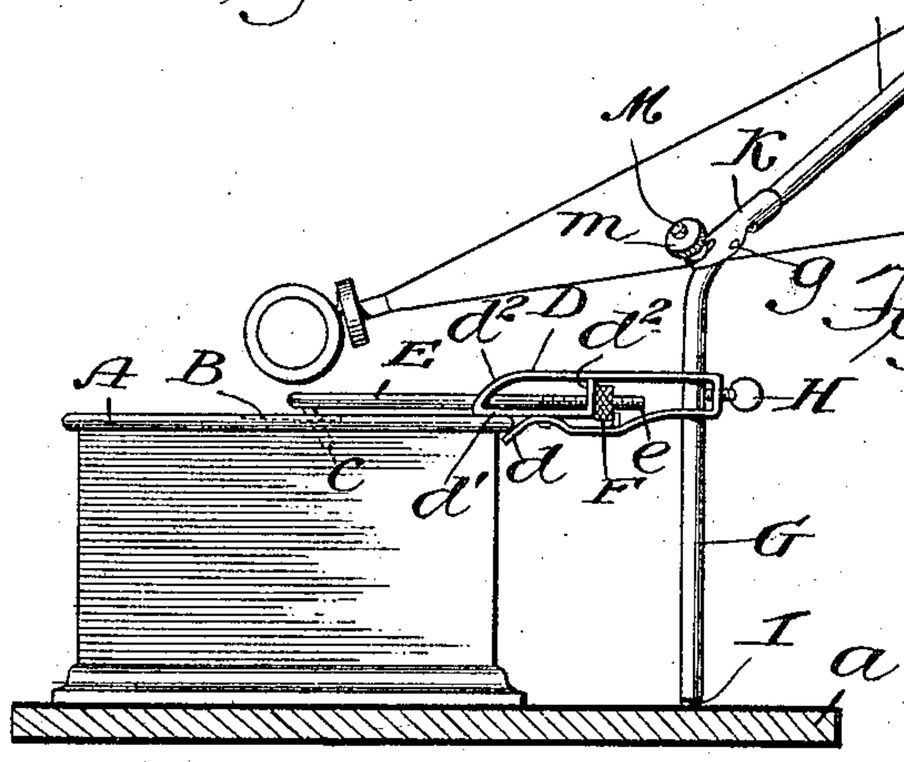

Fig. 7.

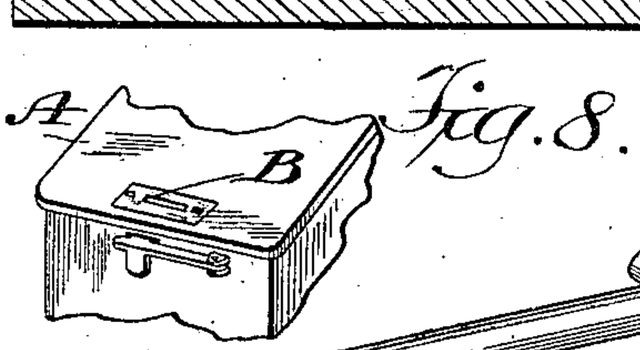

Fig. 8.

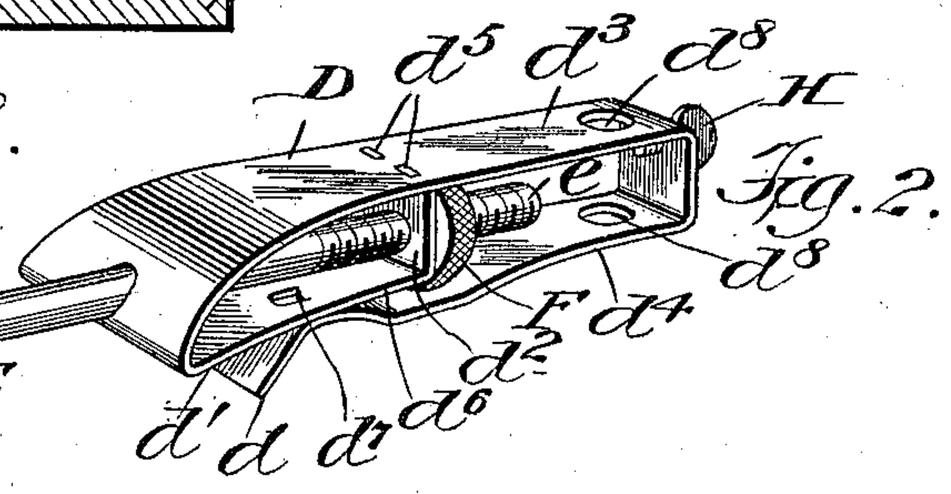

Fig. 2.

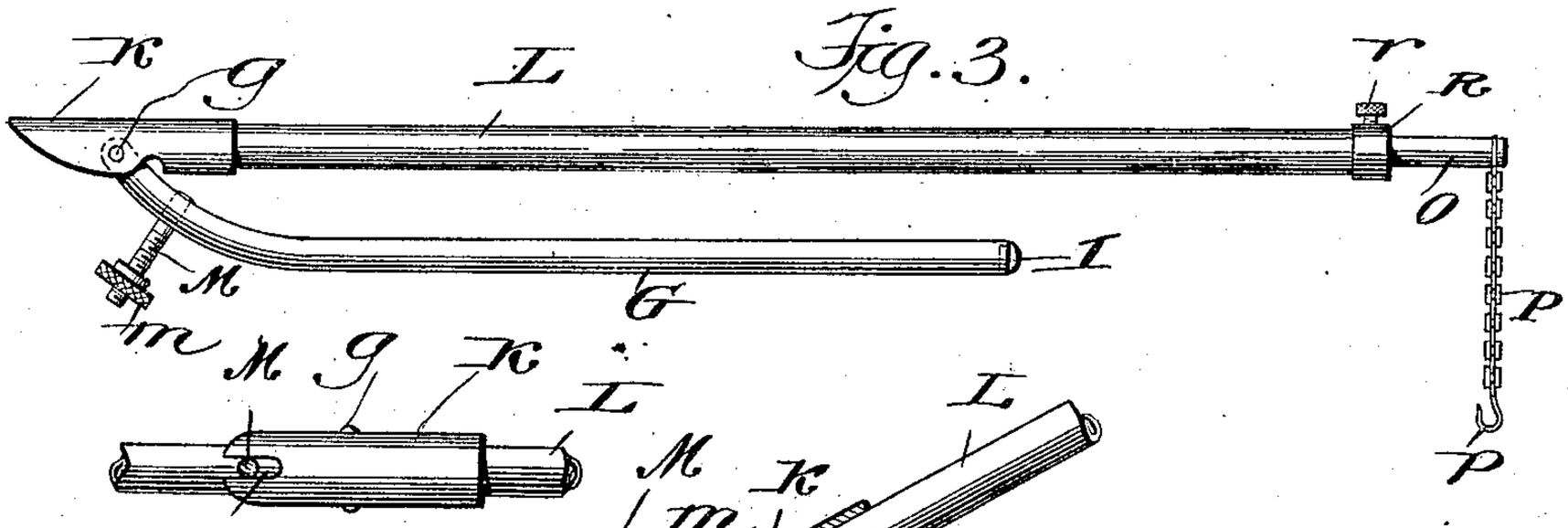

Fig. 3.

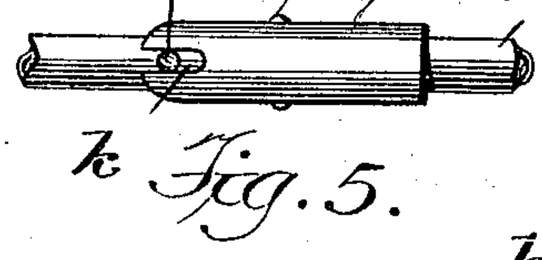

Fig. 5.

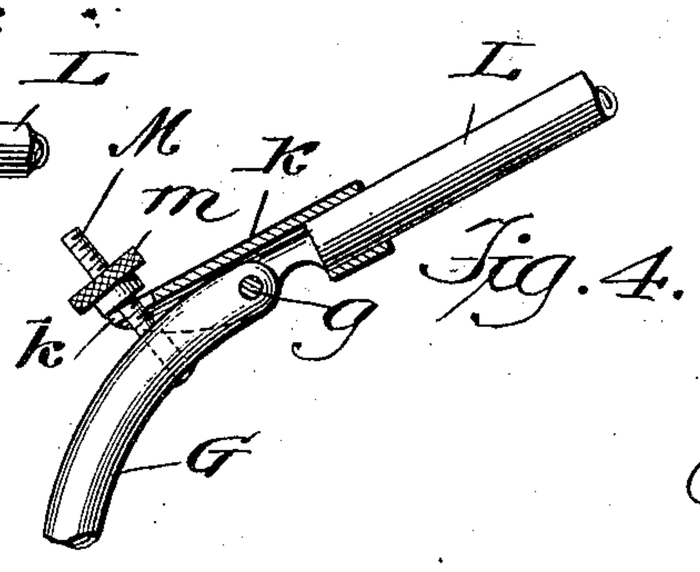

Fig. 4.

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HORN-SUPPORT FOR TALKING-MACHINES.

No. 846,926. Specification of Letters Patent. Patented March 12, 1907.

Application filed July 18, 1906. Serial No. 326,703.

To all whom it may concern:

Be it known that I, OTTO KRAUS, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Horn-Supports for Talking-Machines, of which the following is a specification.

This invention relates to horn-supports for talking-machines, having for its object to provide a new and improved support of this kind which can be easily and quickly attached to various sizes and styles of talking-machines, is rigid, simple in construction, and will not mar or injure the usual highly-finished surfaces of the talking-machines. The general practice in the construction of this class of talking-machines provides for a cover for the machine when not in use. This cover has on the lower edge of its sides two lugs, which fit into respective slots in the top of the box of the machine. These lugs after insertion in the slots fasten with a latch. Since the slots alone come into consideration with my horn-support, I will not further describe or show the cover and its fastening arrangement.

In the accompanying drawings, in which like letters of reference indicate like parts in all the figures, Figure 1 is a side elevation of my new support attached to the box of a talking-machine, showing diagrammatically the record-cylinder and the sound-box. Fig. 2 is a perspective view of the clamping parts of the device detached from the box of the machine. Fig. 3 is a detailed side elevation of portions of the device in a folded position. Fig. 4 is a partial sectional side view of the height-adjusting device, showing the respective parts when in position for use. Fig. 5 is a plan view of the above-mentioned parts with the adjusting-nut removed. Fig. 6 shows a modification of the clamping device with the supporting-bracket in section. Fig. 7 is a modification of the devices adapted to be attached to a box without protruding top edges. Fig. 8 is a perspective view showing one of the slots through which the cover of the talking-machine may be attached in the usual manner.

A represents the top portion of a talking-machine to which the support is clamped.

B is one of the slots for fastening the cover and serves in this case to hold the angular pin C, fastened to rod E, Figs. 1 and 2.

D is a bracket made, preferably, of sheet metal and bent to form jaw-like portions d and d', adapted to engage the protruding edge of the top portion A. The bends of bracket D are also disposed to form guides d^2 for the rod E and to provide space for the knurled nut F. The guides d^2 are located somewhat apart from each other, thus assuring proper alinement between the rod E and bracket D, yet allowing longitudinal adjustment of the rod E with the aid of the threaded portion e and the nut F. As clearly shown, one end of the piece of metal used in bending up the bracket D is provided with spurs d^5, which are inserted in the upper part d^3, Fig. 2. The lower portion d^4, somewhat apart from d^3, is fastened to horizontal portion d^6, with prongs d^7 stamped out in close proximity to jaws d and d'. The space between parts d^3 and d^4 is such as to allow turning of knurled nut F with ease. At the outer end of bracket D openings d^8 are provided.

The pin C is made of round wire tightly driven into rod E and then flattened to correspond with the width of slot B. Since the size of the wire for pin C is larger than the width of the slot B, a shoulder is formed by the flattening process, which prevents the pin C from entering the slot beyond a predetermined depth. The pin C projects somewhat beyond the thickness of the top portion A, so that its extreme lower end is entirely free.

Loosely fitting into opening d^8 of the bracket D is the vertical rod G, held tightly by set-screw H. The lower end of the rod G is recessed and provided with a leather washer I to prevent any injury to table a. The upper portion of rod G is curved and is at its end provided with a pin g, with which a hinge-like connection is formed with sleeve K, Figs. 3, 4, and 5. A portion of sleeve K, as clearly shown, is tightly secured to tube L, while the remaining portion is open at the bottom to permit the swinging and folding of rod G, Fig. 3. The short slot k on top of sleeve K is adapted to coöperate with the screw M, which is securely fastened in rod G. The screw M is sufficiently long to permit the folding of the rod without necessitating the entire removal of the knurled nut m. Se-

cured to the extreme end of tube L is the small collar R, with screw *r* to permit the adjustment of the telescoping rod O.

The short chain P, ending in a hook *p*, is adapted to engage a ring on horn Q, thus supporting same.

In attaching this novel support to a talking-machine the knurled nut F is turned until the distance between pin C and jaw *d* is sufficient to permit the insertion of the pin C into slot B, while jaw *d* is brought into engagement with the protruding edge of top portion A. When nut F is tightened, it is clearly seen that pin C on account of its angular position and its free lower end will be tightly anchored in the surrounding material of slot B, while jaw *d* is being held securely under edge of top portion A, Fig. 1. Through this action a firm contact is also being established between jaw *d* and top portion *d'*, thus holding bracket D securely in all directions.

In modification Fig. 6 the pin C is dispensed with and instead the rod E^2 made to extend over the entire width of top portion A^2, with a hook-shaped end E^3 engaging the opposite protruding edge.

In modification Fig. 7 for boxes without protruding edge jaw d^9 is made vertical and the lifting of the bracket D prevented by the extension of rod E' with a collar E^4 at its extreme left bearing on top portion A, coöperating with angular pin C'.

After attaching bracket D in described manner the rod G is inserted in openings d^8 and clamped in proper position by screw H. The rod G should always rest with its lower end on the table upon which the talking-machine is seated when in service in order to avoid the danger of tilting the machine when large and heavy horns are employed. The tube L is then swung into position to permit the entering of screw M into slot *k* and, as clearly shown, may be held at any desired height by nut *m*.

I do not wish to be understood as limiting myself to the precise arrangement and construction of parts shown and described, but reserve the right to all modifications within the scope of my invention.

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

1. The combination with a rod adapted to positively engage a top portion of a talking-machine case, a bracket provided with jaws in adjustable relation with said rod and adapted to engage the top edge of said case, and means coacting with said bracket to support a horn.

2. The combination with a bracket provided with means for engaging a front edge of the case of a talking-machine, of a rod horizontally disposed and having an angular projection adapted to engage the top portion of said case, said rod being in adjustable relation with said bracket, and means coacting with said bracket to adjustably support a horn.

3. The combination with a horizontally-disposed rod having a projection adapted to be inserted in the slot of a talking-machine case, of a bracket adapted to engage the upper portion of said case and with which said rod is adjustably engaged, and a horn-supporting crane supported by said bracket.

4. The combination of a horizontally-disposed rod having an angular projection adapted to be inserted in the slot of a talking-machine case with a bracket adapted to engage a portion of said case at its front side, said rod being held in adjustable relation with said bracket, means for securing said bracket to said case, and means supported by said bracket for supporting one end of a horn.

5. The combination with a rod having an angular projection at one end adapted to be inserted in a slot of a talking-machine case, of a bracket adjustably engaging the opposite end of said rod and provided with means adapted to clamp one edge of said case, said bracket being formed of sheet metal, and means supported by said bracket adapted to support a horn.

6. The combination of a horizontally-disposed rod having an angular projection adapted to engage a top portion of a talking-machine case, a bracket in sliding relation with one end of said rod, said end being provided with a threaded nut within the bracket to engage said bracket with the case and thus retain the bracket and rod in position, and means held by said bracket for supporting a horn.

7. In a horn-support, the combination with a vertically-disposed rod, a sleeve having a slot extending over one end of said rod, means coactive with said rod and sleeve for forming an adjustable joint, a second rod extending from said joint adapted to support a horn, and means for supporting all of said parts from a machine-case for the purpose set forth.

8. In a horn-support, the combination with a vertically-disposed rod having a curved upper end, of a sleeve having a hinge connection with said rod and an open slot at one end thereof adapted to coöperate with an adjusting-screw, an adjusting-screw, a second rod carried by said sleeve and adapted to support a horn from one of its ends, and means for holding said parts in operable relation to a machine-case.

9. In combination, a rod adapted to engage a top portion of a machine-case and extend from said portion beyond the front of said case, a clamping member provided with an opening through which said rod adjust-

ably extends and having an angular projection adapted to engage the front of said case, means for securing said clamping member and rod in position on said case, a rod adjustably supported by said clamping member and means extending therefrom adapted to support a horn.

Signed at New York city, in the county of New York and State of New York, this 16th day of July, A. D. 1906.

OTTO KRAUS.

Witnesses:
FRANK M. ASHLEY,
ALBERT MENDELSOHM.