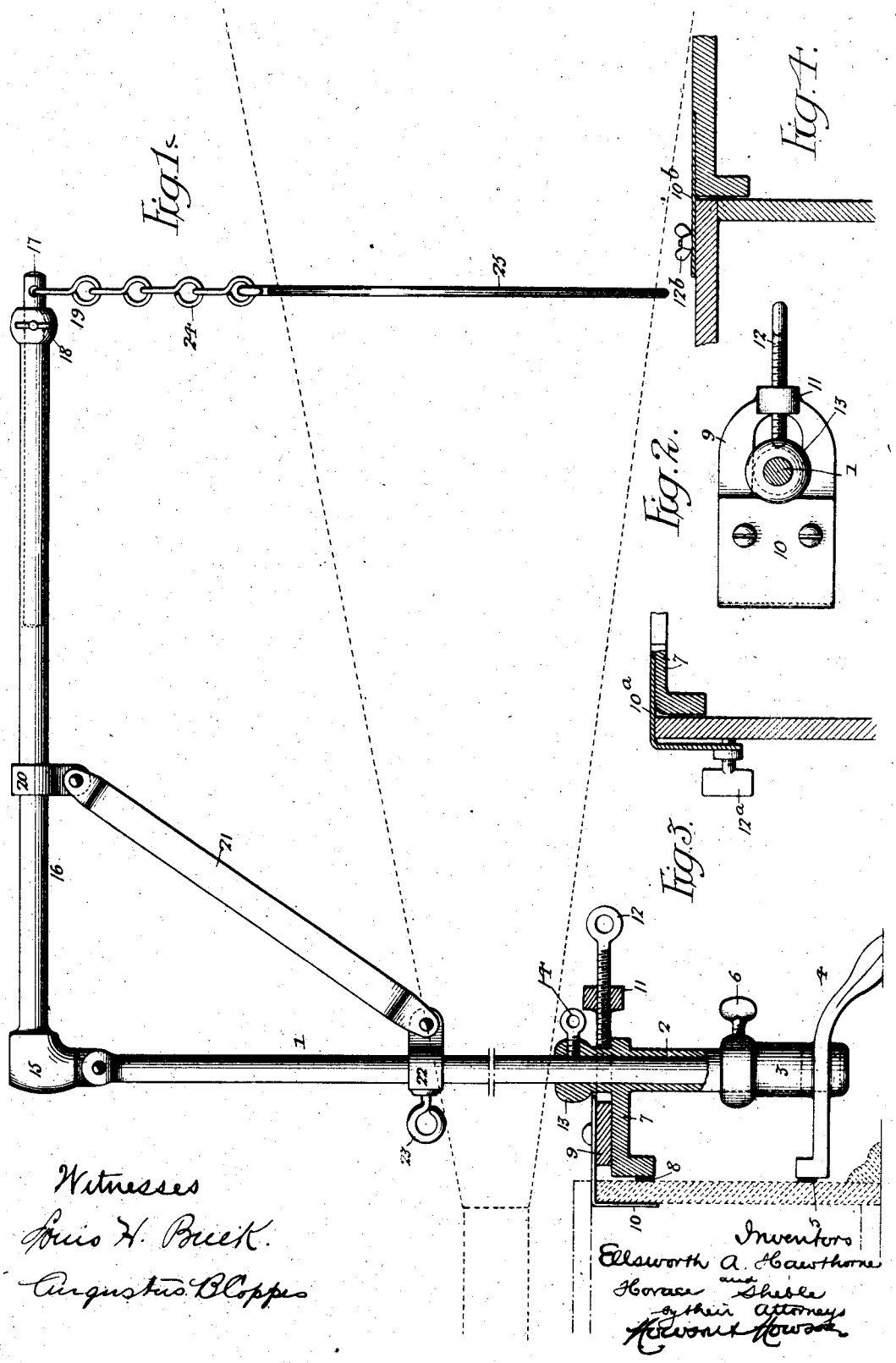
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HORN SUPPORTING CRANE FOR TALKING MACHINES.

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HORN-SUPPORTING CRANE FOR TALKING-MACHINES.

No. 834,202. Specification of Letters Patent. Patented Oct. 23, 1906.

Application filed November 7, 1904. Serial No. 231,724.

To all whom it may concern:

Be it known that we, ELLSWORTH A. HAWTHORNE and HORACE SHEBLE, citizens of the United States, and residents of Philadelphia, Pennsylvania, have invented certain Improvements in Horn-Supporting Cranes for Talking-Machines, of which the following is a specification.

The object of our invention is to provide a crane intended for the support of the horn of a talking-machine and constructed so as to provide for steadily retaining the horn in any desired position of adjustment and for the reception of horns of different sizes and shapes whereby the supporting device is applicable to machines at present in use irrespective of variation in the character of the horns with which such machines are provided.

In the accompanying drawings, Figure 1 shows our improved horn-supporting crane partly in side elevation and partly in section, part of the motor-box of the talking-machine and part of the horn being shown by dotted lines. Fig. 2 is a sectional plan view of part of the device, and Figs. 3 and 4 are views illustrating modifications of part of the invention.

1 represents a vertical post adapted at its lower end to a tubular guide 2, which is vertically adjustable in a socket 3, forming part of a foot 4, the latter having a pad 5 designed to bear against the outside of the motor-box of the machine, as shown in Fig. 1, and the tubular guide 2 being secured in its various positions of vertical adjustment by means of a clamp-screw 6.

The guide 2 has a projecting bracket 7 with pad 8 for bearing against the side of the box, and on said bracket is mounted a slide 9 with downwardly-bent plate 10, forming a jaw, which projects into the box and bears against the inner face of the side of the same.

The slide 9 is slotted so as to form a yoke, which embraces the upper end of the guide 2 and forms a nut 11, to which is adapted a screw 12, which bears upon said guide 2 and serves to adjust the slide 9 in respect to the same, so as to cause the jaw 10 to press firmly upon the inner side of the box, and thus insure the rigid attachment of the guide 2 and its foot 4 to said box. The provision for vertical adjustment of the guide 2 accommodates the device to motor-boxes of different heights. The post 1 can be rotated in the guide 2 and can also be adjusted vertically therein, and said guide 2 has at its upper end a boss 13, which receives a clamp-screw 14, whereby the post 1 is secured in its different positions of rotative and vertical adjustment in the guide.

To the upper end of the post 1 is pivoted an elbow 15 at the inner end of the projecting arm 16 of the crane, said arm being of tubular construction and receiving at its outer end an extension-arm 17, which can be projected from the arm 16 to any desired extent and can be secured in any of its various positions of adjustment by means of a clamp-screw 18, carried by a boss 19 at the outer end of said arm 16.

Secured to the arm 16 is a clip 20, to which is pivoted the upper end of a link 21, whose lower end is pivoted to a clip 22, vertically adjustable on the post 1 and capable of being secured thereto in any of its various positions of adjustment by means of a clamp-screw 23.

By adjusting the clip 22 vertically on the post 1 the projecting arm 16 can be caused to assume any desired angle in respect to the horizontal, and the outer end of the extension-arm 17 can be raised or lowered to any desired extent, depending upon the height of the horn which is to be supported, said arm 17 having a depending chain 24, which carries the supporting-yoke 25 for the horn.

The longitudinal adjustment of the arm 17 in respect to the arm 16 provides for the support of horns of different lengths or adapts the arm 17 for connection with supporting-yokes located in different positions throughout the length of the horn. Hence the various adjustments provided adapt the crane for use in connection with talking-machines having motor-boxes of different sizes or provided with horns of different shapes and sizes.

The motor-box and its contents serve as an anchor for the crane, since it will be evident that in order to tip the post 1 it will be necessary to lift the motor-box bodily, the outer end or toe of the foot 4 serving as the fulcrum, and no horn such as is used in connection with a talking-machine possesses sufficient weight to accomplish this result.

In the modification shown in Fig. 3 the jaw 10^a is rigidly secured to the bracket 7 and carries a clamp-screw 12^a, which bears upon the inner face of the side of the motor-box,

and in the modification shown in Fig. 4 a plate 10^b, rigidly secured to the bracket 7, is fastened to the top of the box by a screw 12^b.

Having thus described our invention, we claim and desire to secure by Letters Patent—

1. A horn-supporting crane for talking-machines having a vertical post, a bracket projecting from said post below the projecting portion of the crane and in a reverse direction therefrom, said bracket being provided with means for securing it to the motor-box of the machine at a point above the bottom of the same, and a supporting-foot projecting both outwardly and inwardly from the post below said bracket, the outwardly-projecting portion of the foot bearing upon the same support as that upon which the motor-box is mounted, and the inwardly-projecting portion of the foot bearing upon the side of the motor-box above the bottom of the same.

2. A horn-supporting crane for talking-machines, having a vertical post, and a support therefor comprising a foot bearing upon the side of the motor-box of the machine and projecting outwardly therefrom, and a bracket also bearing upon the outer side of said motor-box and supported upon the foot, said bracket having a projecting element secured to the upper portion of the motor-box, substantially as specified.

3. A horn-supporting crane for talking-machines, having a projecting post, and a support therefor comprising a foot bearing upon the side of the motor-box of the machine, and projecting outwardly therefrom, and a bracket supported by and vertically adjustable on said foot, said bracket also bearing upon the outer side of the motor-box and being provided with a projecting element secured to the upper portion of the box, substantially as specified.

4. A horn-supporting crane for talking-machines, having a vertical post, and a support therefor comprising an outwardly-projecting foot, a bracket supported thereon and bearing against the outer side of the motor-box of the machine, and a clamp-jaw adjustably mounted on said bracket, substantially as specified.

5. A horn-supporting crane for talking-machines, having a vertical post, and a support therefor comprising an outwardly-projecting foot, a bracket vertically adjustable thereon and bearing against the outer side of the motor-box of the machine, and a clamp-jaw adjustably mounted on said bracket, substantially as specified.

6. A horn-supporting crane for talking-machines, having a vertical post, and a support therefor comprising a foot projecting outwardly from the side of the motor-box of the machine, and having a socket thereon, a tubular guide for the post vertically adjustable in said socket, and having a bracket which bear upon the side of the motor-box, and means for securing said bracket to the upper portion of the box, substantially as specified.

7. A horn-supporting crane for talking-machines, having a vertical post, and a support therefor comprising a foot projecting outwardly from the side of the motor-box of the machine, and having a socket thereon, a tubular guide for the post vertically adjustable in said socket, and having a bracket which bear upon the side of the motor-box, and a clamp-jaw on said bracket having a portion projecting into the box, substantially as specified.

8. A horn-supporting crane for talking-machines, having a vertical post, and a support therefor comprising a foot projecting outwardly from the side of the motor-box of the machine and having a socket thereon, a tubular guide for the post adjustably mounted in said socket and having a bracket bearing on the side of the motor-box, a plate slidably mounted on said bracket and having a clamp-jaw projecting into the box and a yoke embracing the tubular guide, and a clamp-screw carried by said yoke and bearing upon said tubular guide, substantially as specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ELLSWORTH A. HAWTHORNE.
HORACE SHEBLE.

Witnesses:
FRANK H. STEWART,
MARIE E. DONIGAN.