

J. H. B. CONGER.

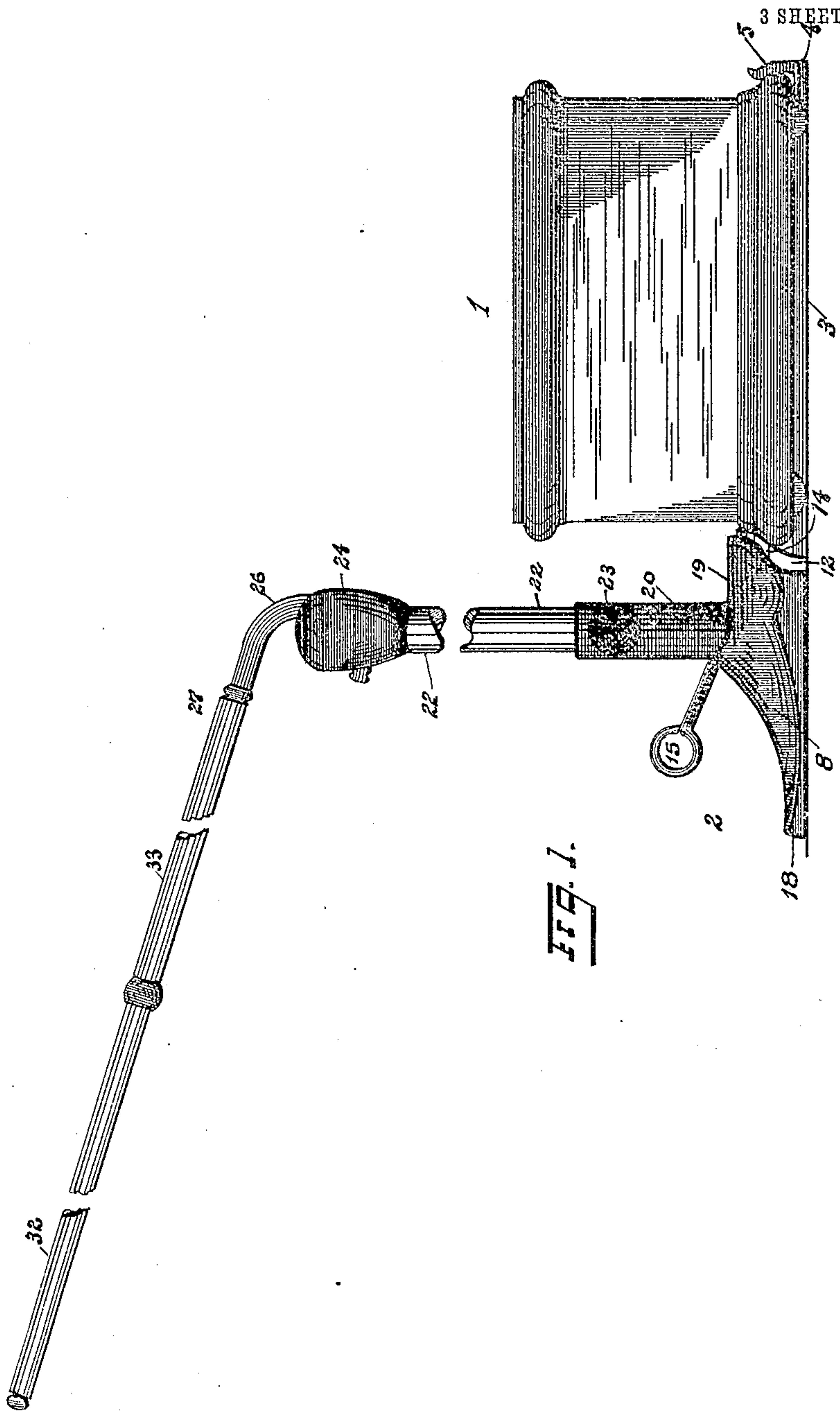
HORN CRANE.

APPLICATION FILED MAY 28, 1906.

944,018.

Patented Dec. 21, 1909.

3 SHEETS—SHEET 1.



WITNESSES

Frederick Hermann J.

Ethel B. Reed

INVENTOR

J. H. B. CONGER.

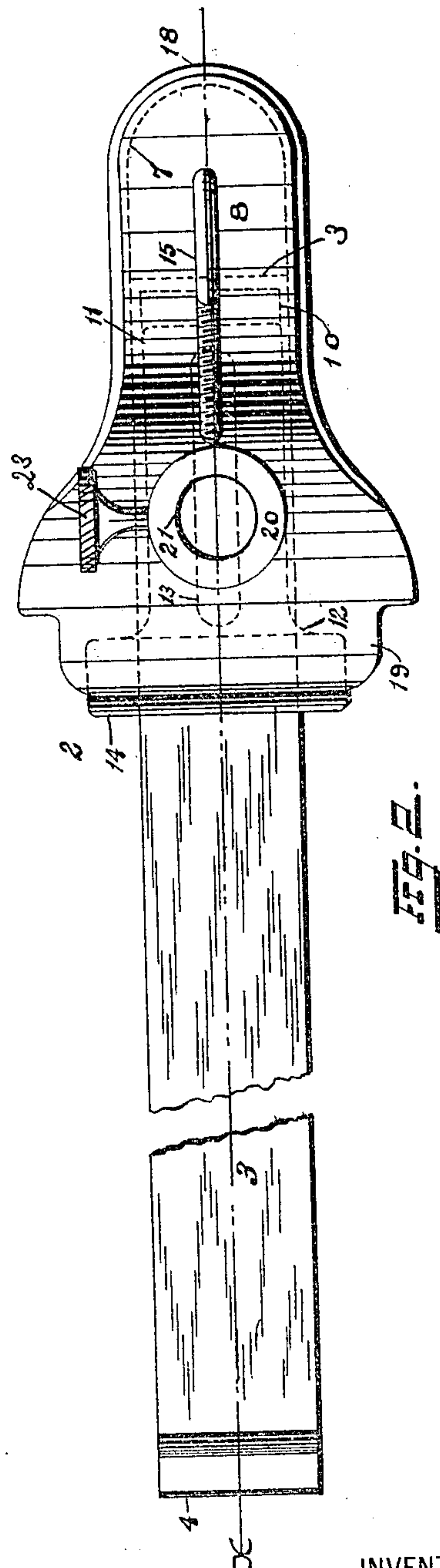
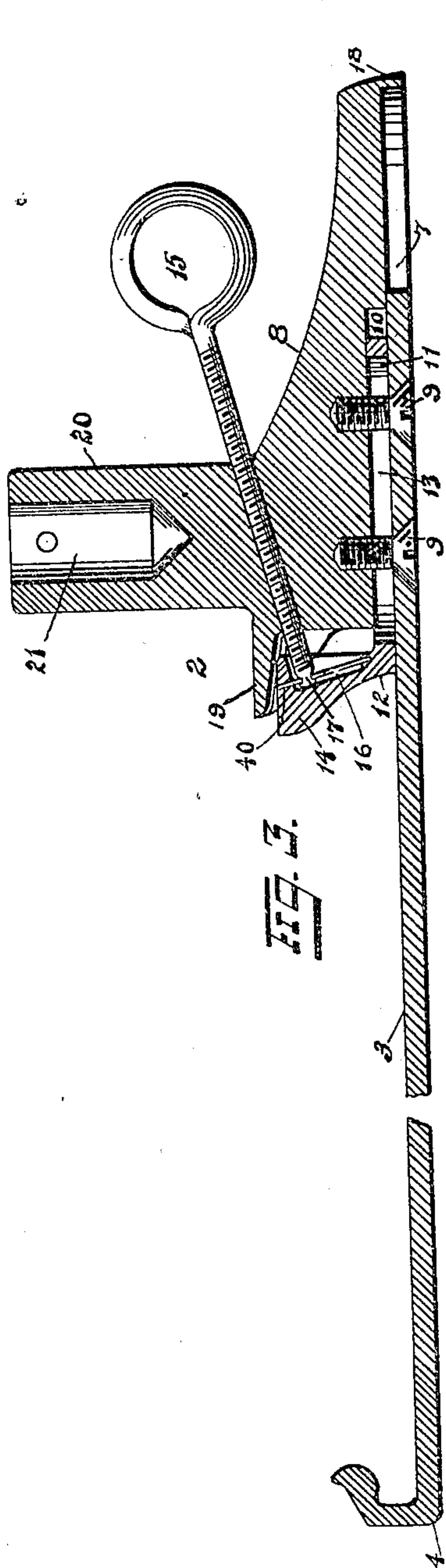
BY

Russell M. Everett.
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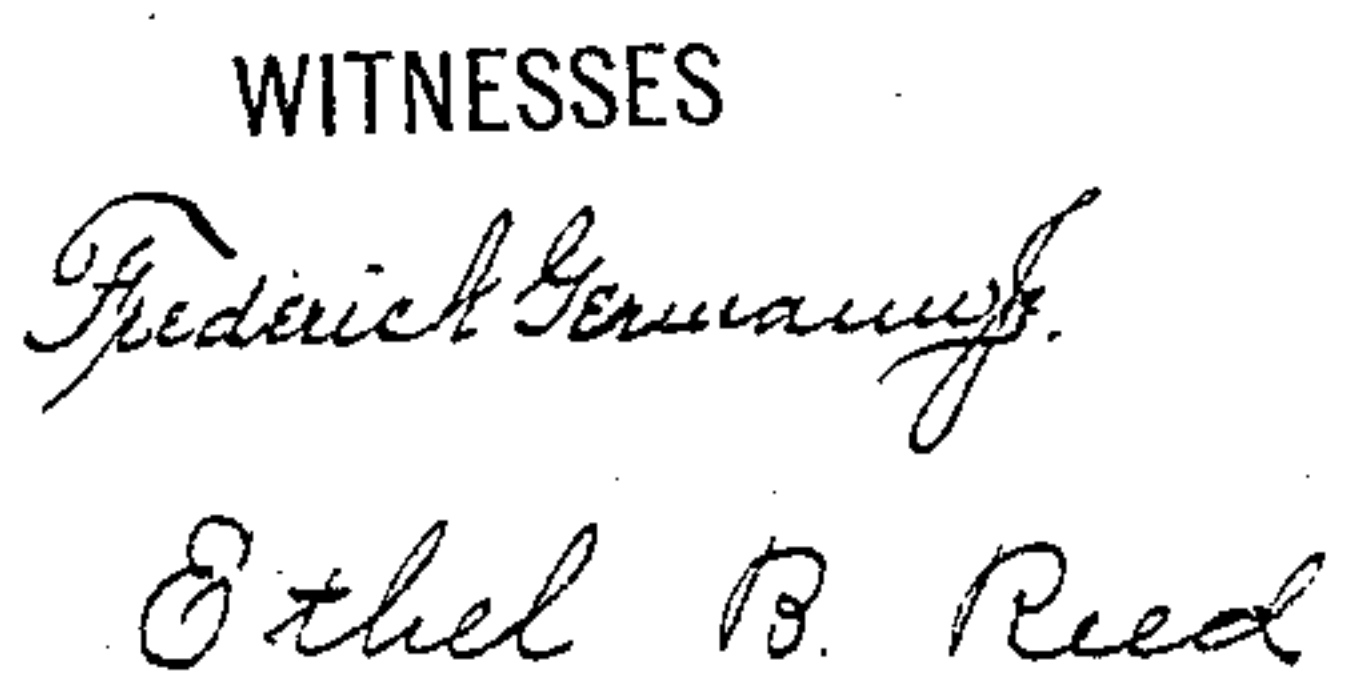
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43 SHEETS—SHEET 3.

944,018.



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UNITED STATES PATENT OFFICE.

JOHN H. B. CONGER, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE TEA TRAY COMPANY OF NEWARK, N. J., A CORPORATION OF NEW JERSEY.

HORN-CRANE.

944,018.

Specification of Letters Patent.

Patented Dec. 21, 1909.

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To all whom it may concern:

Be it known that I, JOHN H. B. CONGER, of the city of Newark, 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 invention relates more particularly to those cranes or supports for amplifying horns which are adapted to be held in position by extending beneath the cabinet of a talking machine and being clamped thereto, and the objects of the invention are to secure improved means of clamping the base-piece to the cabinet; to retain adjustability of such clamping means, while concealing the adjusting means; to thus secure a neat and finished construction; to secure an improved connection of the horizontal arm and post of the crane, and one which will permit of ready adjustment or even of entire separation of said parts for packing or the like; to provide a simple construction, and to obtain other advantages and results, some of which may be referred to in the following description.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 is a side elevation of my improved horn crane applied to a talking machine cabinet; Fig. 2 is a plan of the lower portion of the crane, and Fig. 3 is a section on line *x*, Fig. 2; Fig. 4 is an elevation, partly in section, of the post and arm of my improved horn crane; Fig. 5 is a rear view of the connection between said arm and post, and Fig. 6 shows in side view the curved end of the said arm which enters into such connection; Figs. 7 and 8 show in part section and in rear elevation respectively, another method of connecting the arm and post; and Fig. 9 illustrates a detail of the arm.

In said drawings, 1 indicates a talking machine cabinet to which the lower part 2 of my improved horn stand or crane is attached. To effect this attachment, said lower part comprises a strap-like piece of metal 3, adapted to extend underneath the box, as shown in Fig. 1, and project at both ends. One of said ends is bent up so as to form a clamp or clutch 4, to engage the bottom molding 5 of the cabinet 1, and the other end of said strap 3 is secured in a shallow

recess 7 at the under side of a casting 8, which forms the main part of the support, preferably by means of countersunk screws 9, 9. Above the said strap 3 the top of the recess 7, is provided with a shallow and preferably narrower chamber 10, in which the foot 11 of an adjustable clamp member 12 is freely slidable, said foot having a slot 13 to receive the screws 9, 9, as guides. The head 14 of the clamp member 12, projects upwardly from said foot 11, at its end next the cabinet and is adapted to grip over the molding thereof, in cooperation with the hook 4, at the opposite end of the strap 3, as will be understood. In order to slide the said clamp 12 back and forth, a screw 15, works through the base-piece 8, from its front, the inner end of said screw preferably being inclined downward and engaging the head 14 of the clamp 12. Obviously this engagement might be a simple abutting of the end of the screw against the head of the clamp, the clamp being retracted by hand, but I have shown in the drawings a construction by which the said screw carries the clamp with it in both directions. To this end the extremity of the screw lies in a groove 16 of the clamp-head 14 and is provided with an annular recess 17. A pin 40 is then driven downwardly through the head 14 of the clamp so as to lie in the said recess 17 of the screw and prevent withdrawal of the screw out of the groove 16, while at the same time not interfering with its rotation.

The casting 8 of the base-piece of my improved construction covers the clamp-member 12 and end of the strap 3, and projects outward from the talking machine cabinet, as at 18, to secure a long stable bearing. At its opposite end, or end next the cabinet, there is a hood-like extension 19 which overreaches the clamp member 12 and end of the screw 15, so that the same are practically hidden, as will be understood by referring to Fig. 3 of the drawings more particularly. Said casting 8 has at its top an upward extension 20 which provides a tubular socket 21 adapted to receive the lower end of the post 22 of the crane or horn support, said post being preferably a cylindrical rod of any desired length. A set screw 23 working through the side of the socket 21 enables the post to be clamped against withdrawal.

The standard or post 22 is at its upper end preferably provided with a top or en-

largement 24 which is shown in the drawing as being of an ovoid shape. This enlarged end 24 of the post has a curved hole or passage 25 extending through itself from
 5 a point at or near its top downward and out at one side, and in which passage is arranged the correspondingly curved end 26 of the horn-carrying arm 27, which is adapted to project forward in horizontal or
 10 inclined position and support from its extremity the horn, as is common in the art and accordingly not shown in the drawings. This curved end 26 of the arm is preferably solid and is squared, as is also the passage
 15 25, so as to prevent movement except in a vertical plane. The said end 26 lies downward or beneath the main portion of the arm, so that it is introduced into the passage 25 from the top of the same. To hold
 20 the parts in locked or clamped position, one side of the curved end-piece is provided with sockets or seats 28 to receive the end of a set screw 29, working through the side of the enlargement 24. Or any other suitable clamp means known to the art may be
 25 employed if desired, such for instance as shown in Figs. 7 and 8, where the convex lower end of the bent piece 261 is provided with notches 30 to receive a set screw 31
 30 working through the back of the enlargement 241 into the passage 251.

The horizontal arm 27 is preferably in sections which can be adjusted longitudinally, the outer section 32 being shown as a
 35 solid rod and the other section 33 a piece of tubing which receives at its outer end 34 the said section 32 and has a set screw 35 therefor, the inner end of the tube section 33 having the curved end-piece 26 inserted
 40 therein and firmly secured in place.

By the construction thus described, the arm 27 can be adjusted up or down in a vertical plane and set at any desired point, while the post 22 can be turned to secure
 45 horizontal adjustment of the arm. At the same time the said parts are firm and rigid, and by the lower part 2 are secured to the talking machine cabinet without bringing any strain thereon or causing danger of up-
 50 setting the same.

Having thus described the invention, what I claim is:

1. In a horn crane, the combination of a base-piece having a stepped recess in its bot-
 55 tom, a strap secured in the lower part of said recess and adapted to extend under a talking-machine cabinet, a clamping member having a foot slidable in the upper part of the recess of the base-piece and a head
 60 adapted to engage the cabinet, a screw working through said base-piece into engagement with said clamping member, and horn supporting means.

2. In a horn crane, the combination of a
 65 base-piece having a recessed bottom, a strap

adapted to project from said base-piece under the cabinet of a talking-machine, a clamping member having a foot slidable in said recess of the base-piece and a head adapted to engage the cabinet, a screw
 70 working through said base-piece into engagement with said clamping member, and horn supporting means.

3. In a horn crane, a strap adapted to extend under a talking machine, a base-piece
 75 having a recessed bottom and side, a clamping member slidably mounted in said recess of the base piece and adapted to engage the talking-machine cabinet, an adjusting screw in the said base-piece adapted to engage the
 80 clamping-member, and horn-supporting means.

4. In a horn crane, a strap adapted to extend under a talking machine, a base-piece
 85 having a recess at its side adapted to face the talking-machine cabinet, a clamping member having a head adapted to lie in said recess, an adjusting screw in the said base-piece adapted to engage the clamping-
 90 member, and horn-supporting means.

5. In a horn crane, the combination of a strap adapted to engage at one end a talking machine, a base-piece at the other end of said
 95 strap having a hollow upper end providing a vertical socket, a horn-supporting post in said socket, a clamping member slidably held between said strap and base-piece, and an adjusting screw mounted in the base-piece below its said socket and adapted to engage said clamping member.
 100

6. In a horn crane, the combination of a strap adapted to extend beneath a talking machine and engage the same at one of its ends, a base-piece mounted upon and extending at its edges beyond the other end of said
 105 strap and providing a socket for a horn-supporting post, a clamping member having a slotted foot, a plurality of screws extending through said slot into the base-piece and holding said clamping member in aline-
 110 ment, and a screw mounted in said base-piece adapted to engage said clamping member.

7. In a horn crane, the combination of a strap adapted to extend beneath a talking
 115 machine and engage the same at one of its ends, a base-piece mounted upon and extending at its edges beyond the other end of said strap and providing a socket for a horn-supporting post, a clamping member having
 120 a foot lying between said strap and base-piece and concealed thereby, and a screw mounted in said base-piece adapted to engage said clamping member.

8. In a horn crane, a strap adapted to extend under a talking machine and engage
 125 the same, a base-piece mounted upon one end of said strap and having a hood projecting horizontally toward the other end of the strap, a clamping member having a foot
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slidably arranged between said strap and base-piece and a head underlying said hood, and a screw mounted in said base-piece adapted to engage the head of said clamping member.

5 9. In a horn crane, a strap adapted to extend under a talking machine, a base-piece mounted upon one end of said strap and having a hood projecting toward the other
10 end of the same, a clamping member with a head adapted to engage the cabinet of the talking-machine underlying said hood, an adjusting screw working through the base-
15 piece and being permanently connected at its end to said clamping member, and horn-supporting means.

10 10. In a horn crane, a strap adapted to extend under a talking machine, a base-piece mounted upon one end of said strap and
20 having a hood projecting toward the other end of the same, a clamping member with a head adapted to engage the cabinet of the talking-machine underlying said hood, an

inclined adjusting screw working through the base-piece and being slidably connected 25 at its inner end to the clamping-member, and horn-supporting means.

11. In a horn crane, a strap adapted to extend under a talking machine, a base-
30 piece mounted upon one end of said strap and having a hood projecting toward the other end of the same, a clamping member with a head adapted to engage the cabinet of the talking-machine underlying said
35 hood, and being vertically grooved at its side next the base-piece, an adjusting screw working through the base-piece and having an annularly recessed end lying in said
40 groove, a pin extending longitudinally of the said groove through said recess in the end of the screw, and horn supporting means.

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Witnesses:

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