

No. 654,937.

Patented July 31, 1900.

J. N. BLACKMAN.
PHONOGRAPH ATTACHMENT.

(Application filed Mar. 26, 1900.)

(No Model.)

FIG. 1

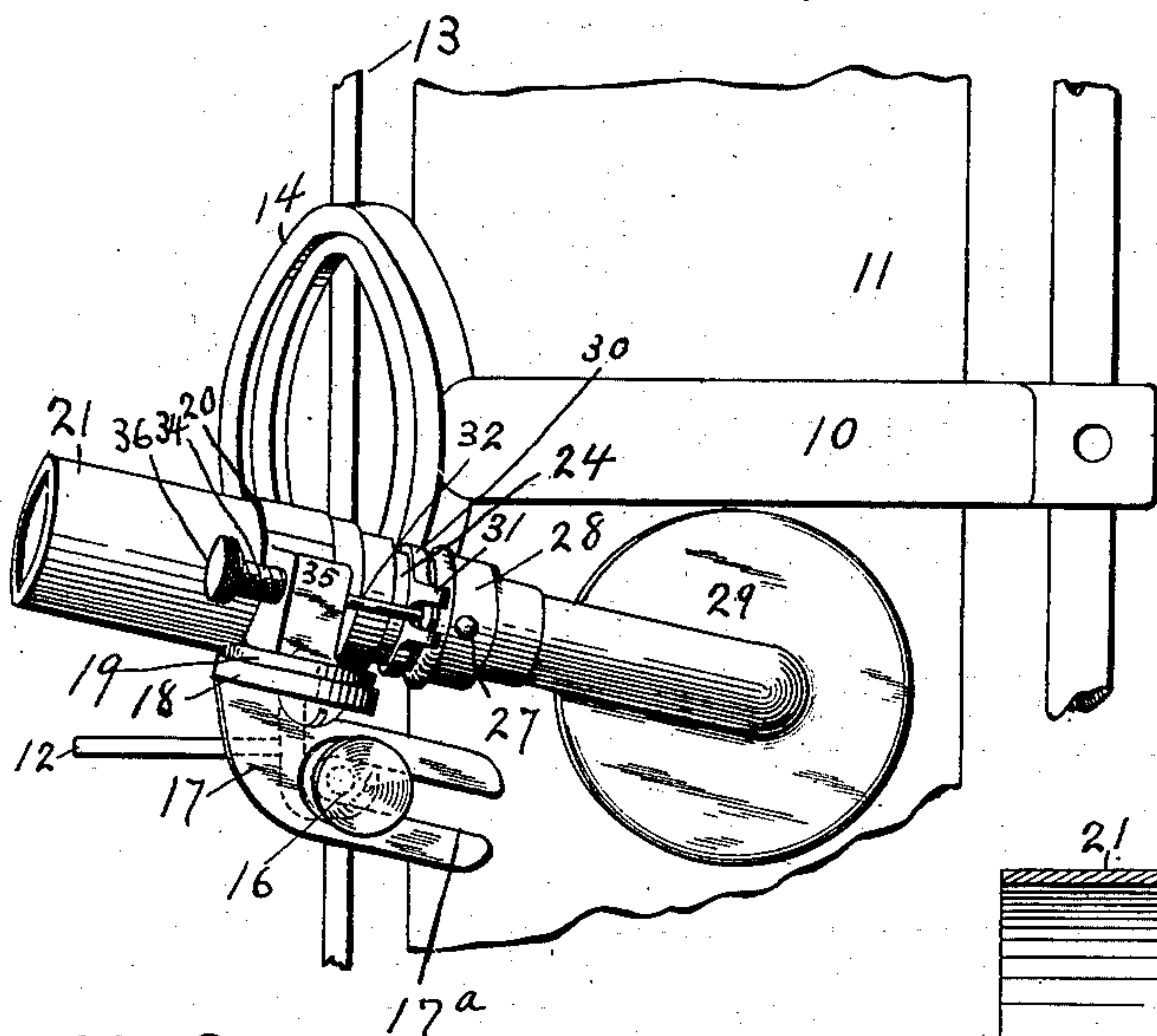
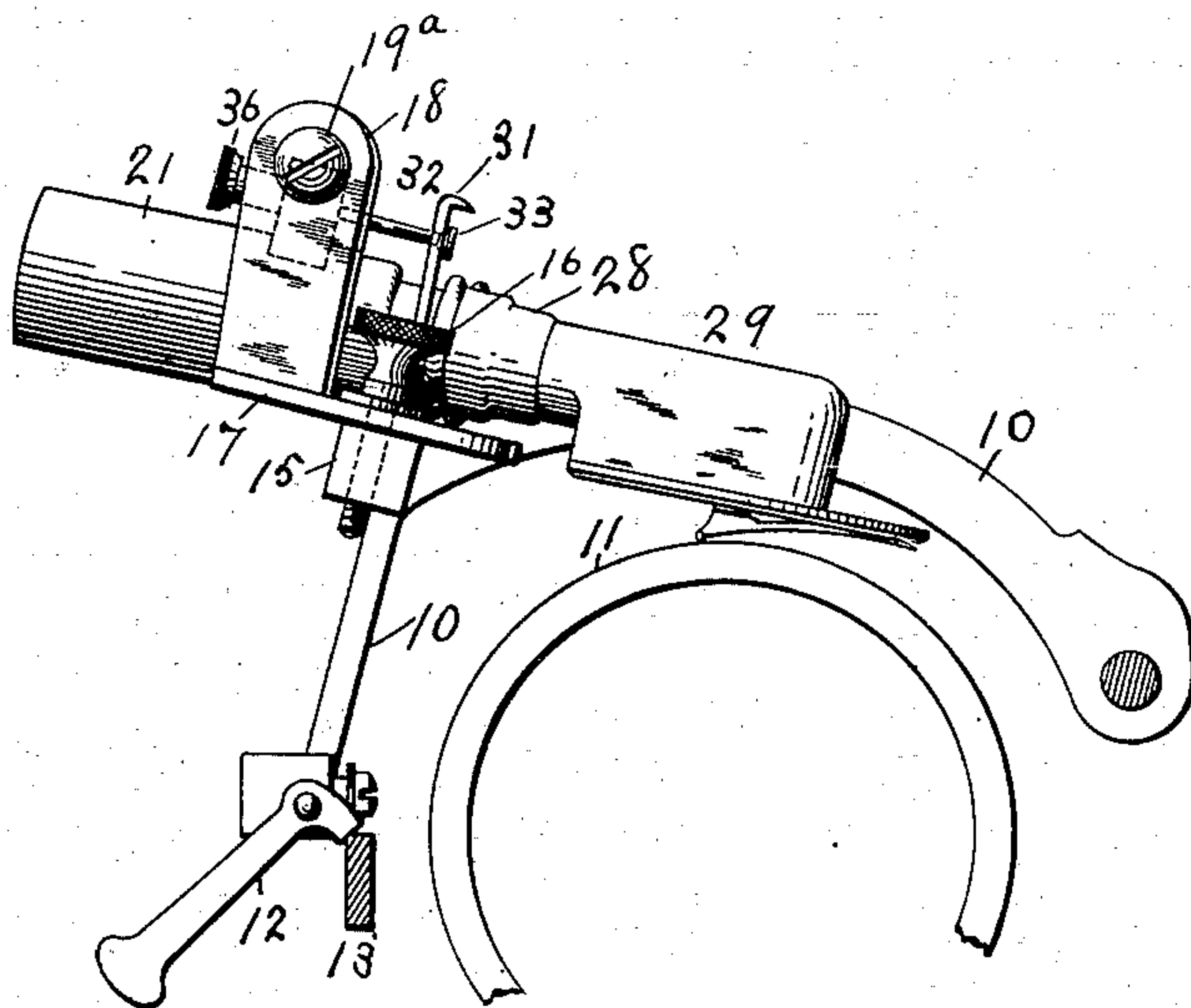


FIG. 2

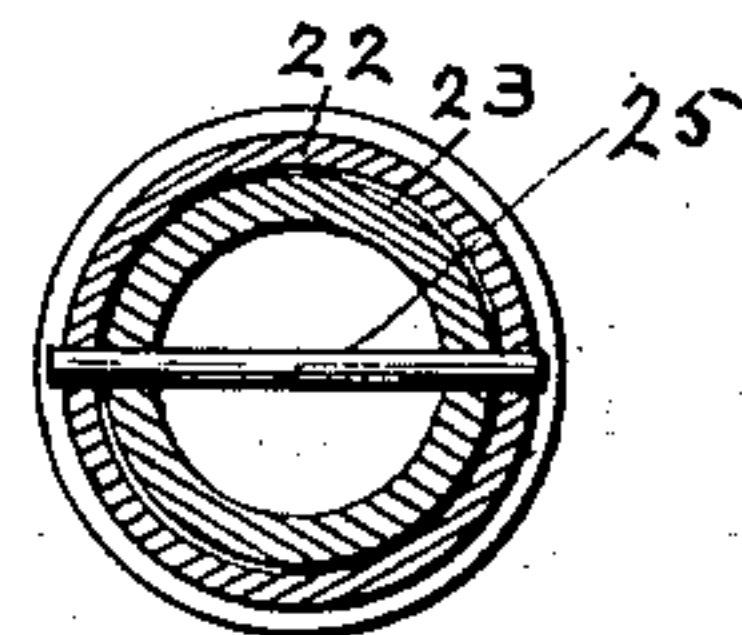


FIG. 4

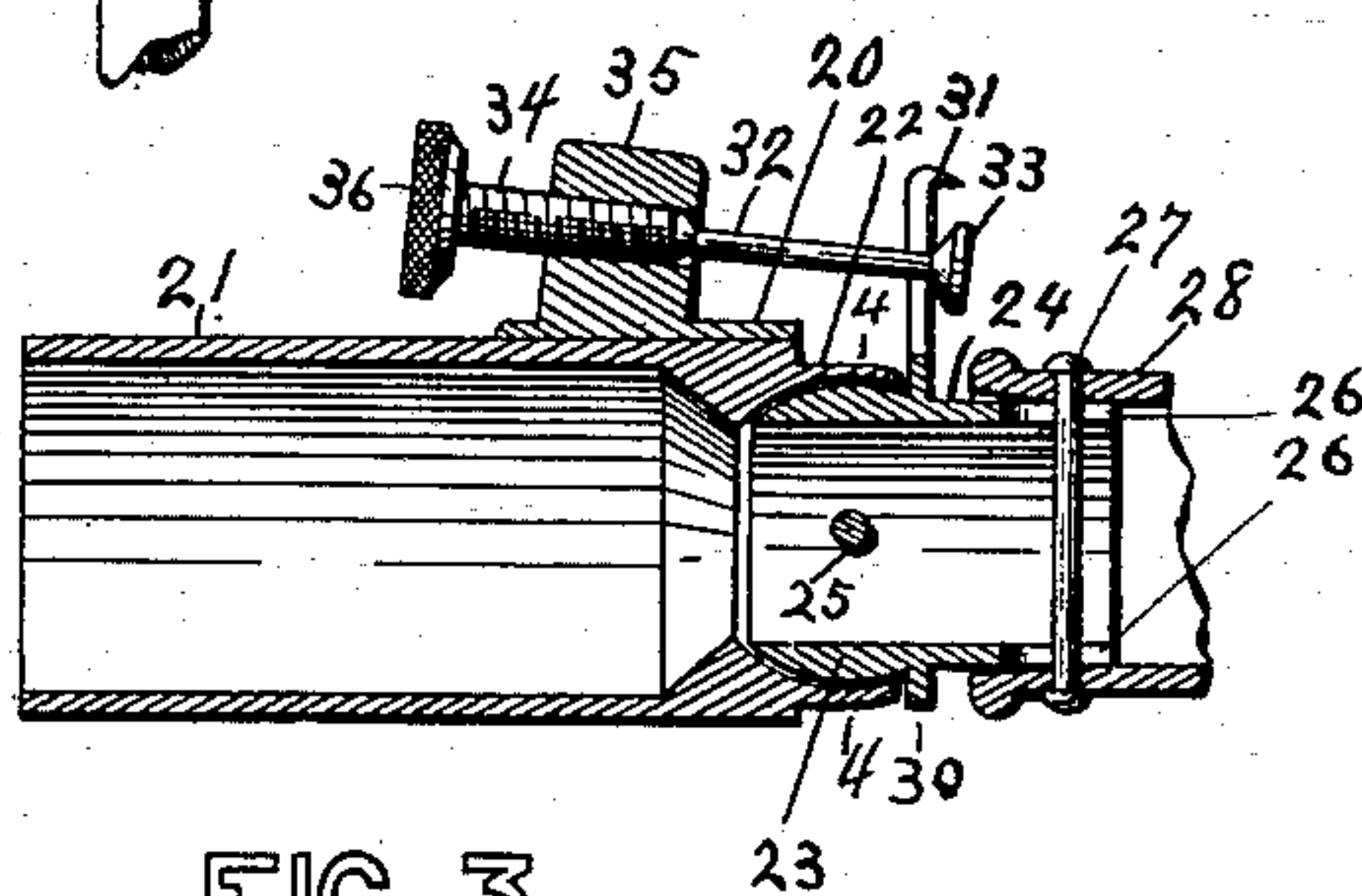


FIG. 3

WITNESSES:

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PHONOGRAPH ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 654,937, dated July 31, 1900.

Application filed March 26, 1900. Serial No. 10,121. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH NEWCOMB BLACKMAN, of the city of East Orange, county of Essex, and State of New Jersey, have invented a certain new and useful Improvement in Attachments for Phonographs or Graphophones, of which the following is a full, clear, and exact description.

My invention relates to improvements in an attachment for phonographs, graphophones, or similar instruments. It sometimes happens, for instance, that a party having an Edison type of machine on which he is using an Edison reproducer will wish to use a recorder of another make in connection with the machine. At present, so far as I know, it is necessary in such case to remove a portion of the machine—to wit, the arm carrying the speaker or reproducer—and attach in lieu thereof the arm carrying the other type of recorder.

The objects of my invention are to produce a simple attachment which can be attached to the arm of one type of machine, to which attachment a recorder of another style of machine can be attached, and to provide a convenient means of adjustment, so that the recorder can be instantly placed in position to perform its work on the cylinder or can be as easily thrown out of position. My intention is to provide a very simple and convenient device of this kind which can, if desired, be left on the machine, so that the machine can be used at will either as a recorder or reproducer, so that either type of recorder can be used, and, further, to construct the device so that it can be easily applied or removed and can be very nicely and quickly adjusted to meet the requirements of such machines.

To these ends my invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference refer to similar parts throughout the several views.

Figure 1 is a side elevation of my attachment, showing the same in position upon the arm of an Edison type of machine. Fig. 2 is a plan view of the attachment and parts

shown in Fig. 1. Fig. 3 is a detail longitudinal section through the main tube and the coupling and shows the means for adjusting the tube in one direction. Fig. 4 is a cross-section on the line 4 4 of Fig. 3.

In the drawings I have shown only enough of the ordinary type of machine to illustrate the use of my invention, and the drawings illustrate the ordinary arm 10 of the Edison machine, which extends from the cylinder 11, precisely as usual, and has the customary adjusting-lever 12 bearing on the rail 13 of the machine. The arm has the usual eye 14 to receive a reproducer and the lug 15 on one side of the eye. All this is usual and no novelty is claimed for it.

To the lug 15 is fastened by a binding-screw 16 the lower end portion 17 of a bracket, this part lying parallel with the plane of the lug 15, and the bracket-arm is forked, as shown at 17^a, to receive the binding-screw 16 and to permit the bracket to be adjusted back and forth in relation to the cylinder 11. The bracket also comprises an upright arm 18, which extends, essentially, at right angles to the plane of the arm 17, and to this is held the plate 19, the connection being by means of a screw 19^a, so that the plate 19 may be swung on the screw to bring it into the desired relation and then held in position by tightening the screw. The plate 19 is connected to the curved arm 20, which is secured to the main tube 21 of the device, this tube being adapted to connect with the ordinary trumpet or mouthpiece in the usual manner. The inner end of the tube 21 is reduced and internally curved, as shown at 22, so that it may receive the curved and thickened head or end 23 of the coupling 24, which is tubular, so that sound may pass readily through it, and is held to the tube 21 by a cross-pin 25, which thus permits the coupling and the recorder thereto connected to be moved up and down in relation to the tube 21 and to the cylinder 11. The inner end of the coupling 24 is slotted on opposite sides, as shown at 26, to receive the cross-pin 27 on the mouth 28 of the recorder 29. The pin 27 is at right angles to the pin 25, above referred to, so that while the coupling has a limited movement up and down the recorder can have a limited move-

ment laterally, and thus ample means is provided for adjustment and for the necessary freedom of movement.

I have not shown the recorder in detail, as it is of a well-known type and forms no part of this invention.

The coupling is provided with a flange 30, which extends around the coupling between the parts 22 and 28, and on this flange is a fork 31, which extends upward and which can of course be produced on the coupling without the intervention of a flange, and the fork receives the end 32 of an adjusting-screw 34, the head 33 of which engages the fork, while the body of the screw turns in the boss 35 on the plate or arm 20, above referred to. The screw 34 has for convenience a milled head 36, so that it can be turned readily by the thumb and finger. It will be seen, therefore, that as the plate 20 and boss 35 are fixed to the tube 21 the operator can by a simple turn of the screw 34 permit the recorder to drop down into contact with the cylinder 11, as shown in Fig. 1, or the screw may be drawn back, so as to act on the fork 31, tilt the coupling 24 on the pin 25, and lift the recorder out of contact with the cylinder. To place the recorder on the attachment, it is only necessary to push the part 28 upon the coupling, with the pin 27 engaging the slot 26 of the coupling. In using the instrument it is not, however, necessary to remove the recorder even when a reproducer is to be used, as by turning the screw 34, as stated, the recorder can be thrown out of use.

When once the attachment is adjusted, it is not necessary usually to make any further adjustment. The adjustment is first effected by pushing the part 17 of the bracket 17 18 the desired extent on the binding-screw 16 and then tightening the screw and also by adjusting the plate 19 20 by means of the screw 19^a, so as to bring the recorder, when attached, to the approximately-correct position. After this the required nicety of adjustment is effected by the screw 34, as already described.

It will of course be apparent on referring to the drawings and reading this specification that certain parts of the attachment may be changed or modified without affecting the principle of the invention. Of course the particular shape of the brackets and the construction in detail of the several parts are not material; but the essential features comprise mechanism for holding a recorder attachment on a reproducer or recorder arm and for properly adjusting the attachment.

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

1. A device of the kind described comprising a bracket or support, a fastening device to secure the bracket to the usual phonograph-arm, a tube mounted on the bracket, and adjustable means for connecting one end of the tube to the mouth of a recorder substantially as described.

2. A device of the kind described, comprising a bracket or support, fastening means to secure the bracket to a phonograph-arm, a tube adjustably supported on the bracket, and adjustable means for connecting the tube with the mouth of the recorder.

3. A device of the kind described, comprising a tube, a coupling at one end thereof adapted to connect with a recorder, a screw mechanism for adjusting the coupling in relation to the tube, and means for supporting the tube on the arm of a phonograph.

4. A device of the kind described, comprising a tube, a connection adjustable up and down, by means of which the tube may be connected to a recorder, and adjustable means for supporting the tube on the arm of a phonograph.

5. A device of the kind described, comprising a tube having means for connecting with a recorder, a bracket adapted to support the tube on the arm of the phonograph, and a plate adjustable on one arm of the bracket, said plate carrying the aforesaid tube substantially as described.

6. In a device of the kind described, the combination of the tube and coupling adapted to connect with a recorder, means as the fork on the coupling and the screw on the tube for adjusting the tube and coupling in relation to each other, and means for supporting the tube on the arm of a phonograph, substantially as described.

7. A device of the kind described, comprising a tube, a vertically-adjustable connection between the tube and recorder, a supporting-bracket, means for adjusting the tube on said support, a detachable adjustable mechanism for retaining the bracket on the arm of a phonograph, substantially as described.

In testimony that I claim the foregoing as my invention I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH NEWCOMB BLACKMAN.

Witnesses:

EDWIN B. HOUGHTON,
FRANK ROBERTS.