

V. W. WECZERZICK.
SOUND CONTROL FOR TALKING MACHINES.
APPLICATION FILED AUG. 10, 1915.

1,173,758.

Patented Feb. 29, 1916.

Fig. 1,

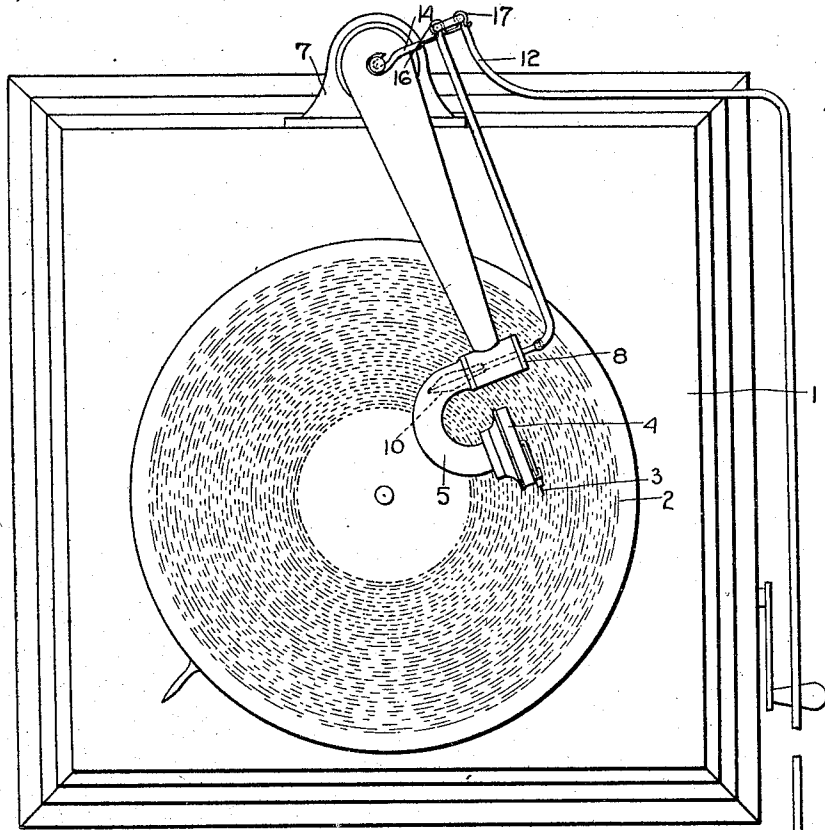


Fig. 2,

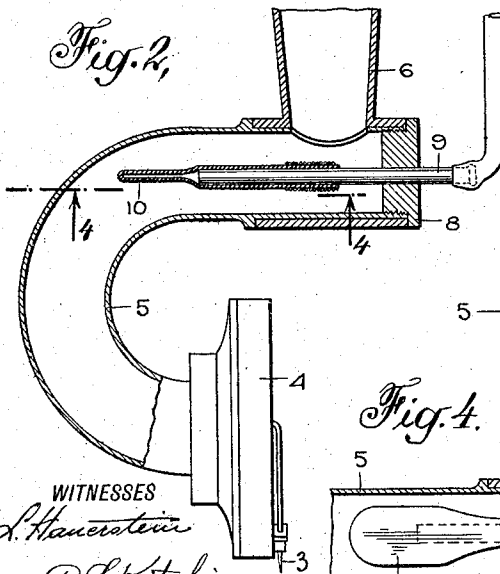


Fig. 3,

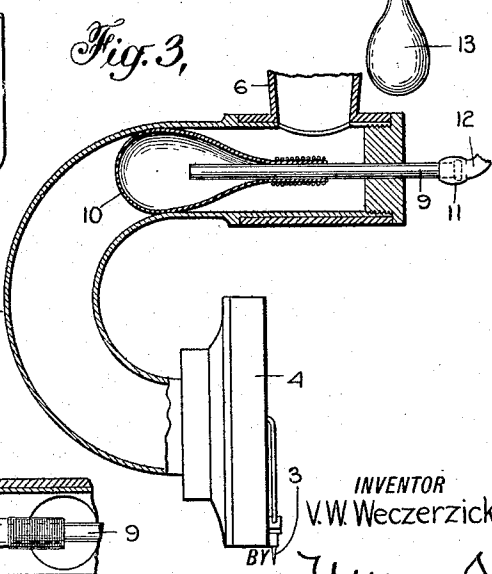
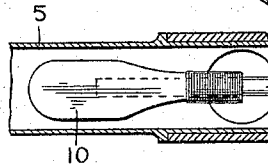


Fig. 4.



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SOUND CONTROL FOR TALKING-MACHINES.

1,173,758.

Specification of Letters Patent.

Patented Feb. 29, 1916.

Application filed August 10, 1915. Serial No. 44,694.

To all whom it may concern:

Be it known that I, VINCENT W. WECZERZICK, a citizen of the United States, and a resident of the city of New York, borough
5 of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Sound Control for Talking-Machines, of which the following is a full, clear, and exact description.

10 This invention relates to attachments for talking machines and particularly to an improved device for controlling the volume of sound thereof.

Another object in view is to provide a device for controlling the volume of sound arranged in the gooseneck of the talking machine or at some other convenient point in
15 any part of the quantity or volume of sound tube, whereby the tone is affected according to the movement of the controlling device.

A still further object in view is to provide a pneumatic bulb in the sound tube or the gooseneck of the talking machine and connected therewith a tube and bulb whereby
25 the bulb in the sound tube or gooseneck may be inflated or deflated at will and to any extent for varying the volume of sound according to the particular temperament of the person operating the device.

In the accompanying drawings: Figure 1 is a top plan view of a talking machine with an embodiment of the invention applied thereto; Fig. 2 is a sectional view through a
35 gooseneck and part of the sound tube of a talking machine with an embodiment of the invention positioned therein; Fig. 3 is a view similar to Fig. 2 but with the control bulb distended; Fig. 4 is a detail fragmentary sectional view on line 4—4 of Fig. 2
40 showing the width of the bulb as distended as being less than the width of the gooseneck.

Referring to the accompanying drawings
45 by numerals, 1 indicates a casing of a talking machine, which may be of any desired type, and 2 a record. The needle or stylus 3 of the machine engages the record 2 in the usual manner and is carried by the sound
50 box 4 which in turn is carried by the gooseneck 5 swiveled on the tone tube 6 mounted in any suitable manner at 7 on one side of the casing 1. The detail construction of these parts of the talking machine is well

known and consequently forms no part of 55 the present invention.

In swiveling the gooseneck 5 in position a nut 8 is provided which may be easily applied and removed at any time. Extending through nut 8 is a tube 9 to which a pneumatic bag 10 is secured. The bag or bulb 10
60 is preferably of a good quality of thin rubber and when deflated appears in section as shown in Fig. 2 or in plan as shown in Fig. 4. It will be observed that the bulb 10 does
65 not touch the gooseneck 5 unless distended by having air forced therein, as shown in Fig. 3. As the air is forced in through tube 9 the bag or bulb will begin to take a globular form, as shown in dotted lines in Fig.
70 1, and consequently partially fill the gooseneck 5 without, however, touching the walls thereof, thus varying the quantity or volume of sound to a greater or less extent according to the inflation of the bag. When the
75 bag is inflated until the same presses tightly against the walls of the gooseneck 5 the sound is completely shut off or, rather, is shut off as much as possible so that only a small sound will be transmitted to the horn
80 or sounding board of the machine.

Preferably the tube 9 is metal, though it may be any other suitable material, and is arranged to extend into the bag 10 as more particularly shown in Fig. 3 and be secured
85 thereto in any suitable manner, as for instance, by an adhesive or a winding of thread or cord. The outer end of the tube 9 is enlarged at 11 so as to spread the flexible air tube 12 as shown in Figs. 2 and 3.
90 Tube 12 may be of any length so that a person may be positioned at a suitable distance from the talking machine and yet be in a position to operate the bulb 13 which acts in a certain capacity as a pump except
95 that it is preferably not provided with a valve, so that when it is collapsed air is forced into the bulb or bag 10 and when the bulb is released the air is withdrawn from the bag 10. In order that there will
100 be no accidental jerking or movement of the tone tube 6 by reason of a pull on the tube 12, a hook 14 is fitted over the pivotal member 15 provided on the machine 1. The hook 14 is also provided with loops 16 and
105 17 through which the tube 12 is passed, as shown in Fig. 1, so that if any one gives an accidental pull to the tube 12 the same will

act on hook 14 and on pin 15 without in any way affecting the stylus 3 or associated parts.

In operation, when the parts are in the position shown in Fig. 1 and the talking machine is operated, a person may grasp bulb 13 and press the same at any time and to any extent for modulating or controlling in any way the volume of sound according to the particular temperament or mood of the person using the device. It will be noted that the device may be quickly applied and removed whenever desired so that if any one does not wish to use the device the same may remain idle and on the machine or may be removed and a new nut 8 substituted for the nut 8 having the tube arranged therein.

What I claim is:—

1. In a sound controlling device, the combination with a talking machine having sound tubes, of an inflatable member arranged in said sound tube, and means extending to a distance for inflating said inflatable member and thereby varying the volume of sound passing through the sound tube.

2. A sound controlling device for talking machines, comprising an expansible bulb adapted to be inserted into the sound carrying tube of a talking machine, and means arranged exteriorly of said tube for inflat-

ing and deflating said bulb whereby the volume of sound may be varied according to the desire of the operator.

3. A sound controlling device comprising an expansible bulb or bag, a tube of an appreciable length connected therewith, and a bulb connected with said tube, said last mentioned bulb being adapted to be collapsed by the hand for inflating the first mentioned bulb or bag.

4. A sound controlling device comprising an elongated inflatable bag adapted to be fitted into the gooseneck of a talking machine, said bag being of less width than the diameter of said gooseneck, a tubular member fitted into the retaining screw of the gooseneck and extending into said bag, a flexible air tube connected with said tubular member, and a hand bulb connected with said flexible tube whereby when said hand bulb is collapsed air will be forced into said bag for inflating the same, the inflation of said bag corresponding to the deflation of said hand bulb.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

VINCENT W. WECZERZICK.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."