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PHONOGRAPH CONSTRUCTION

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Fig. 1.

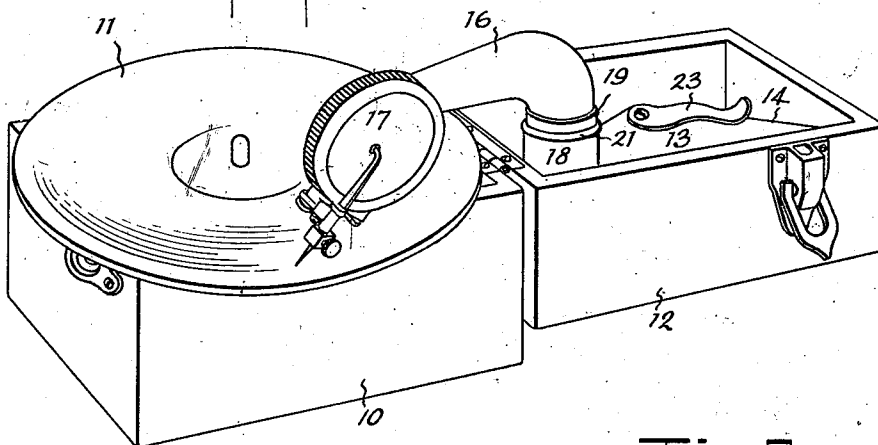
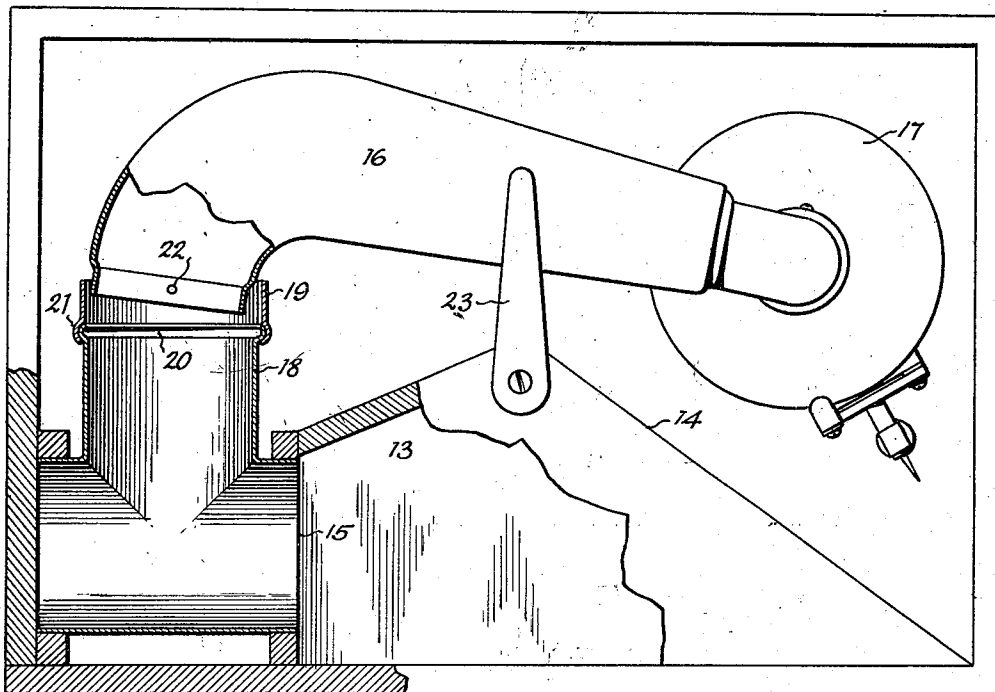


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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PHONOGRAPH CONSTRUCTION.

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This invention relates to a phonograph construction and has particular reference to the construction of a phonograph tone arm.

An object of the invention is to provide a simple and efficient construction of tone arm for a phonograph particularly of the portable type whereby the tone arm can be very compactly stowed away when not in use and very readily moved into an operative position when the phonograph is to be operated.

A further object concerns the provision of a simple construction whereby a phonograph tone arm is connected to an amplifying chamber through the intermediary of a connecting device which is very simple in its construction, economical to manufacture, durable in use and easy to operate.

The invention is illustrated in the drawings, of which Figure 1 is a perspective view of the portable phonograph showing the tone arm in operative position in connection with a disk and with the amplifying chamber.

Figure 2 is a plan view partially in section, showing the tone arm in the position it assumes when stowed away in the cover of the phonograph.

In general, the invention relates to a phonograph having a box and a pivoted cover. This cover is adapted to contain an amplifying chamber and a phonograph tone arm thereon when not in use. The tone arm is adapted to be swung out of the cover to contact with a disc when the phonograph is in use. The connection between the tone arm and the amplifying chamber is preferably in the form of a tubular metal device which is pivotally associated not only with the amplifying chamber but with the tone arm, permitting a wide latitude of movement with the tone arm, not only with respect to the connecting element but also with respect to the amplifying chamber, so that the tone arm can be readily swung into and out of its operative position.

In the preferred form of the invention I have a phonograph box 10 which may contain a special mechanism for operating a turn table, on which a disc 11 can be maintained. Associated with the box 10 is a cover 12. In the cover 12 is formed an amplifying chamber 13 having an outlet end 14 and an inlet end 15. Also disposed normally within the cover is a tone arm 16 having the usual sound box 17 thereon. In

order to connect the tone arm 16 in a substantially flexible manner to the amplifying chamber 13 so that it can be readily swung into and out of its normal position, I provide a tubular connection between the tone arm and the amplifying element. This tubular element preferably is in the form of a T shaped metal casing 18. The cap of the T element at one end opens into the amplifying element 13 and at the other end bears against the wall of the cover. The stem of the T element 18 is provided with a rotatable sleeve 19 which engages the stem by reason of the fact that the stem has a rib 20 thereon and the sleeve 19 has a groove 21 thereon, which interengage. The rear end of the tone arm is pivotally connected to the sleeve 19 by reason of two pins, one of which 22, is shown in Figure 2. By reason of the pins 22 the tone arm is pivotally mounted on the sleeve 19. By reason of the engagement of the rib 20 and the groove 21 the sleeve 19 is rotatably mounted on the T element 18. In addition the T element is rotatably mounted with respect to the amplifying element 13.

In the operation of the device therefore, the tone arm can be stowed away as shown in Figure 2 and yet when it is desired to use the tone arm the operator merely grasps the tone arm and moves it upwardly and outwardly to the position shown in Figure 1, this operation being made possible by reason of the extreme flexibility of the construction whereby the tone arm is connected to the amplifying element. Preferably when the tone arm is stowed away in the cover a latch finger 23 preferably pivoted on the amplifying element is moved to a position over the tone arm to hold it in place.

It will be observed that the type of connection between the amplifying chamber and the tone arm is of the nature of a universal joint, being extremely flexible and enabling the tone arm to be moved in almost any desired position and especially to be disposed in the two positions shown, in one of which it is making contact with a phonograph record and the other in which it is stowed away in the cover of the box.

What I claim is:

In a phonograph, a box-like cabinet cover, said cover having angularly disposed walls which provide an amplifying chamber at one side of the cover within the same, a

tone arm, a hollow connecting element connecting the amplifying chamber with the interior of the tone arm, means supporting the connecting element for turning movement, a ring member turnable on one end of said connecting element, and a pivotal connection between one end of the tone arm and the ring member, the connecting element, ring member and pivotal connection functioning to permit the tone arm to be moved into and out of the space adjacent the amplifying chamber in said cover, also permitting the radial and up and down movements of the tone arm when in a position for the playing of a record.

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