

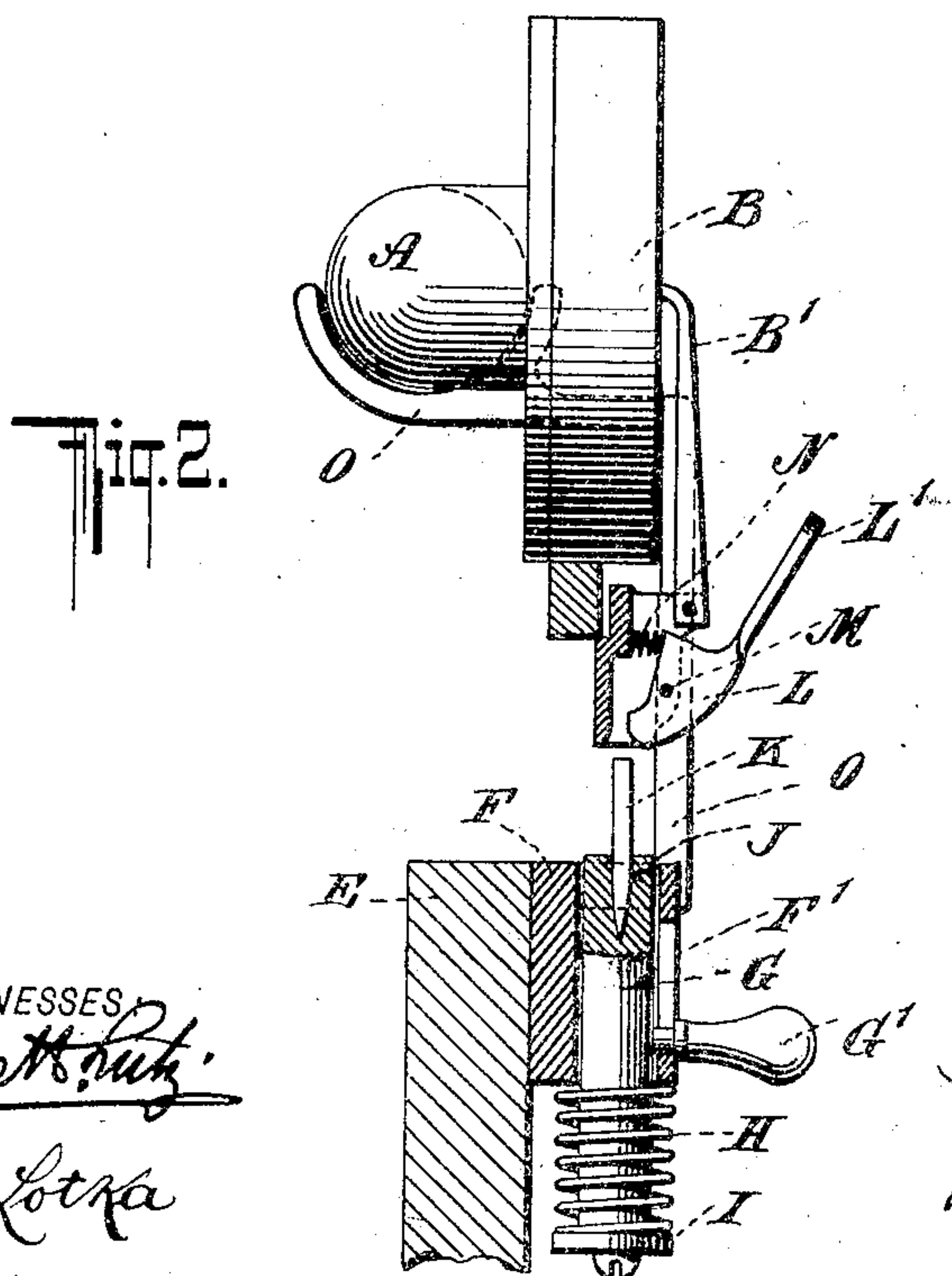
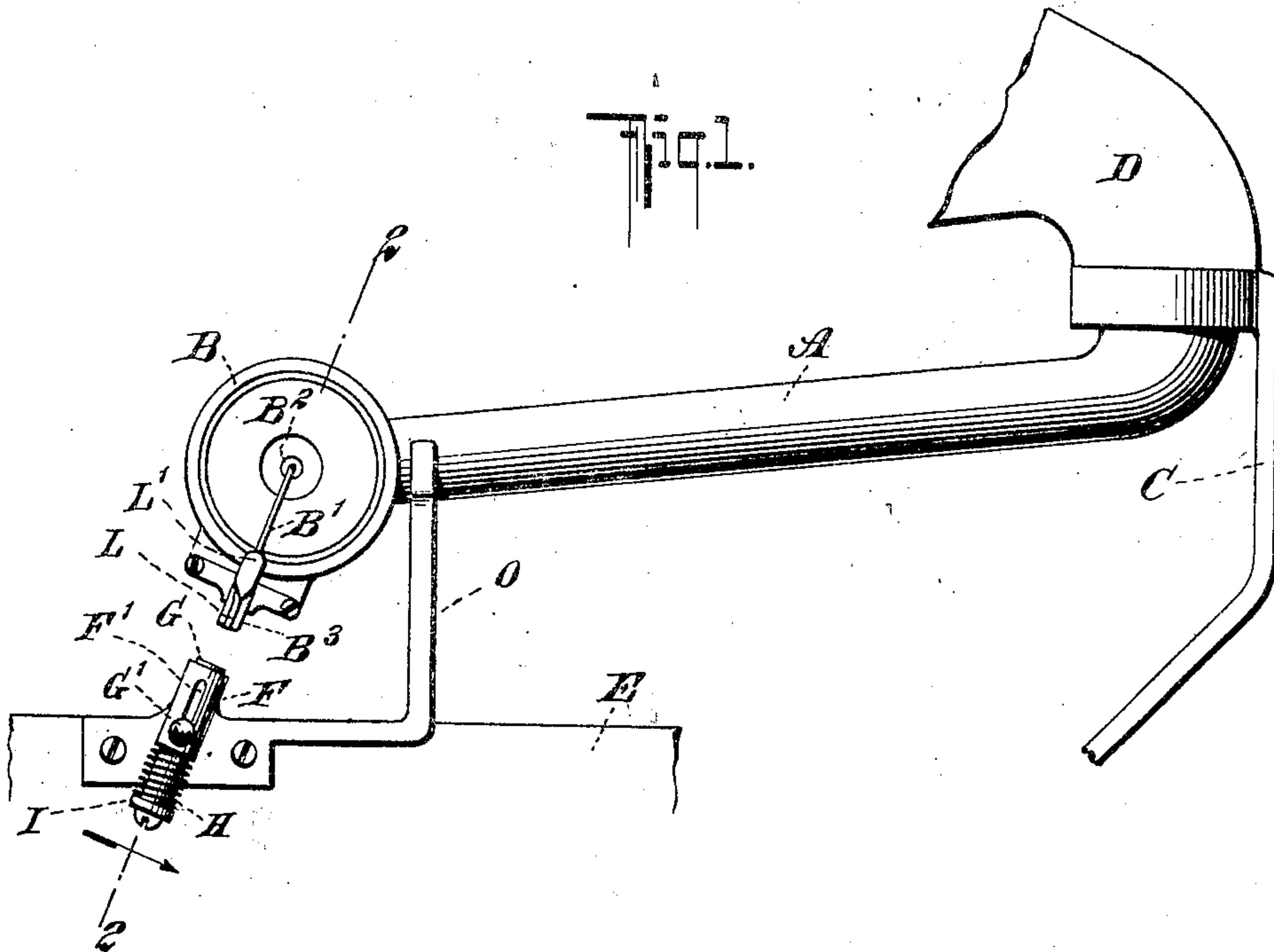
No. 865,398.

H. KOCH.

PATENTED SEPT. 10, 1907.

TALKING MACHINE ATTACHMENT.

APPLICATION FILED JAN. 8, 1906.



WITNESSES:  
*Julius H. Katz*  
*John Lotka*

INVENTOR  
*Henry Koch*  
 BY  
*Briese & Thum*  
 ATTORNEYS

# UNITED STATES PATENT OFFICE.

HENRY KOCH, OF RAHWAY, NEW JERSEY, ASSIGNOR TO THE REGINA COMPANY, OF RAHWAY, NEW JERSEY, A CORPORATION OF NEW JERSEY.

## TALKING-MACHINE ATTACHMENT

No. 865,398.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed January 8, 1906. Serial No. 295,022.

To all whom it may concern:

Be it known that I, HENRY KOCH, a citizen of the United States, and a resident of Rahway, county of Union, and State of New Jersey, have invented certain new and useful Improvements in Talking-Machine Attachments, of which the following is a specification.

My invention relates to the class of machines commonly known as talking machines and has for its object to provide machines of this description with a device for readily inserting the stylus into the stylus holder of the sound-box or reproducer.

My invention will be fully described hereinafter and the features of novelty will be pointed out in the appended claims.

Reference is to be had to the accompanying drawings in which

Figure 1 is a side view of as much of a talking machine as is necessary to illustrate my invention and Fig. 2 is a sectional view thereof on an enlarged scale taken on the line 2--2 of Fig. 1.

A represents the sound conducting tube which carries at its free end the usual reproducer or sound box B. The other end of said tube A is journaled in a bracket C which is secured in any convenient manner to the talking machine proper. This bracket C also carries the customary amplifying horn D which is in communication with the sound conducting tube A. The sound box B may be of any ordinary construction and is provided with the usual stylus arm B' secured to the diaphragm B<sup>2</sup> and carrying the stylus holder B<sup>3</sup>.

E represents a portion of the talking machine to which is secured in any convenient manner a guiding member F provided with a slot F'. A plunger G is arranged to slide in said guiding member F and is provided with an operating handle G' which extends through the slot F' of the member F. This slide or plunger G is maintained in its lower position by a spring H one end of which abuts against the guiding member F and the other end of which engages a washer I carried by the plunger G. The plunger G is provided with a receptacle or recess J of a tapering shape, so as to accommodate and hold the stylus K.

L is a holding catch pivoted at M to the stylus holder B<sup>3</sup> and adapted to lock the stylus K in the holder B<sup>3</sup>. The catch L is provided with a finger piece L' and is held in its locking position by a spring N.

O is a positioning fork attached at a convenient point to the talking machine E and adapted to engage the sound-conducting tube A. The fork O may be made separate from or integral with the guiding member F as desired.

In operation to insert the stylus K in position in the stylus holder B<sup>3</sup>, the said stylus K is first placed in the receptacle J of the plunger G with its point down. The tube A is swung on its pivot in the bracket

C and then raised and placed in the fork O, it being understood that the tube A is so constructed as to be capable of swinging in a vertical as well as a horizontal plane. It is to be further understood that the fork O is arranged in a plane substantially at right angles with the plane of the sound-box and is so located that when the tube A is placed therein the stylus holder B<sup>3</sup> will be directly over the receptacle J in the plunger G. In other words when the tube A is in the fork O one of the members of said fork will engage the tube A at the rear thereof and the other member of said fork will engage the tube at the front thereof and the stylus holder will register with the stylus K in the plunger G. The plunger G is then pressed upward through the medium of the handle G' and the stylus K inserted into the holder B<sup>3</sup> where it is held by the holding catch L. The holding catch is beveled at its lower portion so that the stylus on being pressed upward will be guided into proper position. It is to be understood that the receptacle J of the plunger G is so proportioned that the stylus K will extend just far enough therefrom for correct positioning in the stylus holder. To aid in this the slot F' is also in correct proportion. After the selection has been played on the machine and a new stylus is desired the finger piece L' of the catch L, is pressed toward the sound box thus releasing the stylus just used and the above operation is repeated.

With my device a new stylus may be quickly inserted in the stylus holder and the danger of pricking the fingers is done away with. It is to be understood that instead of the positioning fork O an ordinary stop may be used, the only requirement being that the sound conductor or tube A be stopped at a point where the stylus holder is in registry with the receptacle in the plunger G.

Various modifications may be made without departing from the nature of my invention as defined in the claims.

I claim and desire to secure by Letters Patent:

1. In a talking machine, the combination of a movable sound-conducting tube, the sound box carried thereby and the stylus-holder on the sound box, with a support in permanent engagement with said sound-conducting tube, another support adapted for temporary engagement with said sound-conducting tube and a stylus-inserting device which registers with the stylus-holder when the sound-conducting tube is in temporary engagement with the second-named support.

2. In a talking machine, the combination of the pivotally supported sound-conducting tube, the sound-box carried thereby, and the stylus-holder on the sound-box, with a support for holding said tube in its inactive position, and a stylus-inserting device which registers with said holder when the sound-conducting tube rests on said support.

3. In a talking machine, the combination with the movable sound conductor, a sound box carried thereby and a



stylus holder on said sound box, of a positioning device arranged in a plane at an angle to the plane of the sound box and provided with two members adapted to engage the sound conductor at the front and rear thereof when the

5 sound box is in the stylus-receiving position and a stylus inserting device which registers with the stylus-holder when the sound box is positioned by said positioning device.

4. In a talking machine, the combination, with the movable sound-box having a stylus-holder, of a plunger mov-

10

able toward and from the holder and in registry therewith in a predetermined position of the sound-box, the said plunger being provided with a tapering recess or socket for temporarily holding a stylus.

In testimony whereof, I have hereto subscribed my name 15 in the presence of two subscribing witnesses.

HENRY KOCH.

Witnesses:

W. C. PROSS,

F. J. MACDONALD.