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PATENTED JULY 16, 1907.

C. H. WILKES & H. LYKE.

STARTING AND STOPPING MECHANISM FOR PHONOGRAPHS.

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Fig. 1.

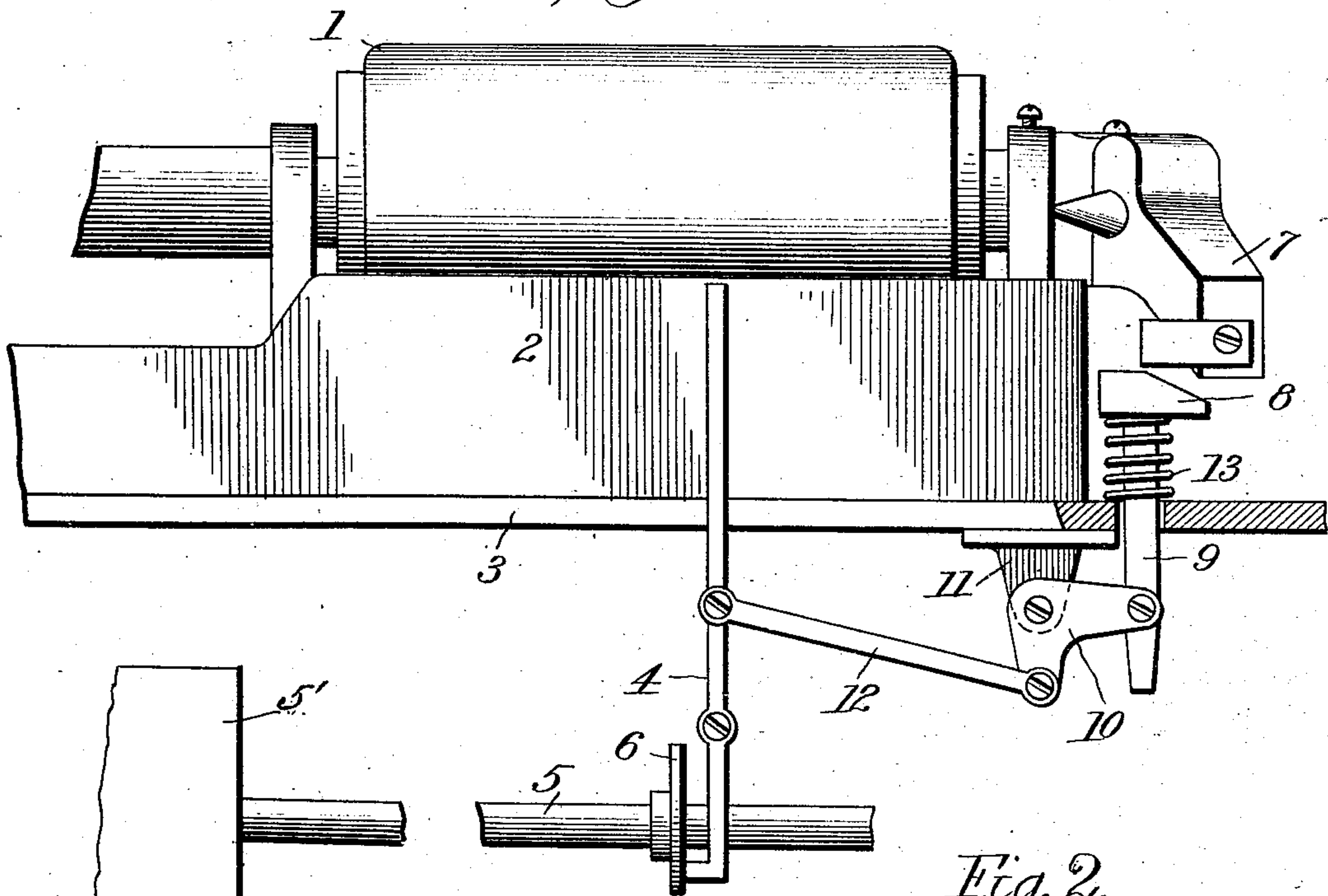
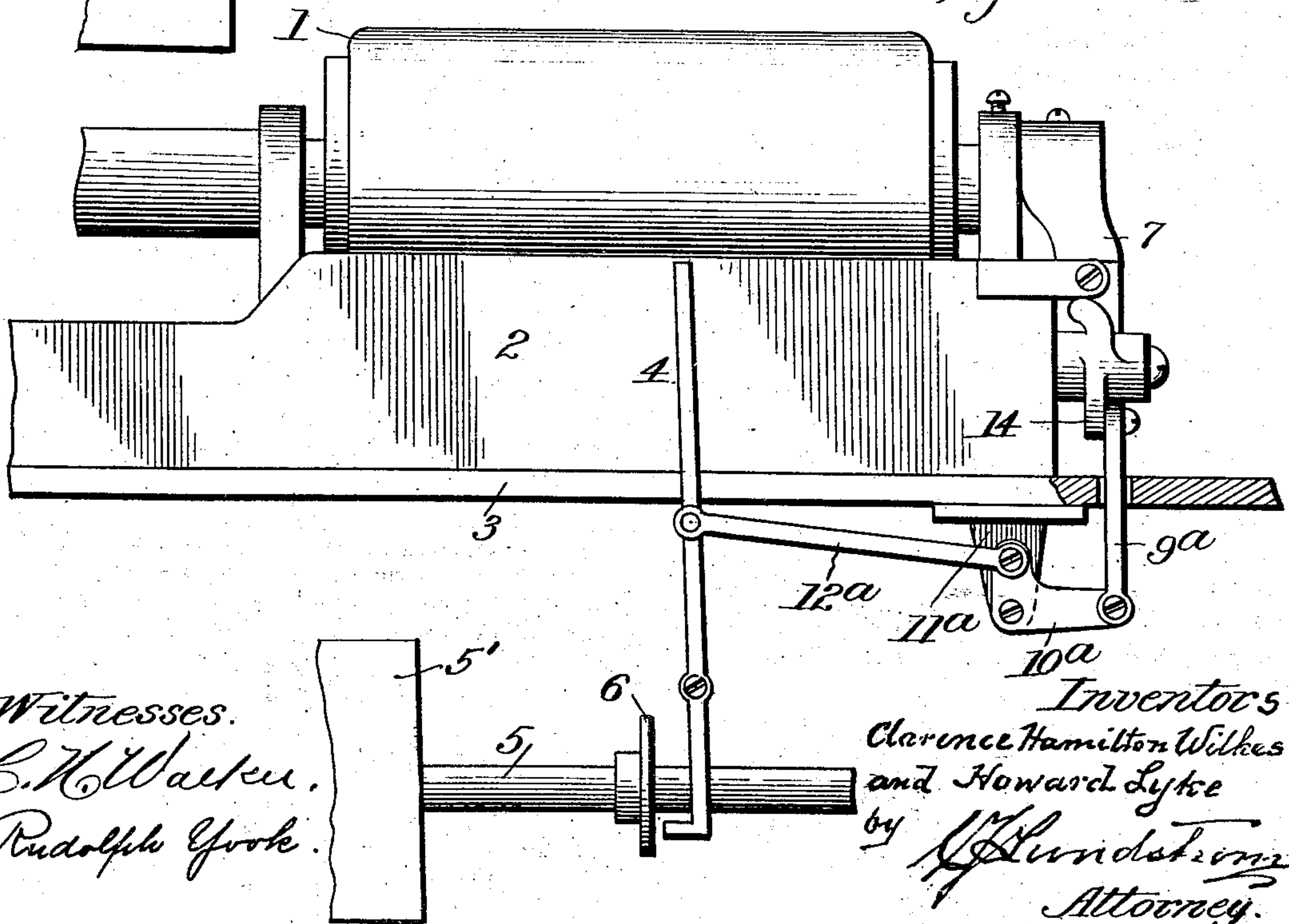


Fig. 2.



Witnesses.
E. H. Walker.
Rudolph York.

Inventors
Clarence Hamilton Wilkes
and Howard Lyke
by *W. H. Lindstrom*
Attorney.

UNITED STATES PATENT OFFICE.

CLARENCE HAMILTON WILKES AND HOWARD LYKE, OF LITTLE FALLS, NEW YORK.

STARTING AND STOPPING MECHANISM FOR PHONOGRAPHS.

No. 860,110.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that CLARENCE HAMILTON WILKES and HOWARD LYKE, citizens of the United States, residing at Little Falls, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Starting and Stopping Mechanism for Phonographs, of which the following is a specification.

This invention relates to starting and stopping mechanisms for phonographs.

10 It has for an object to provide a means connected to the starting lever and operated automatically either by the closing and the opening of the gate or by the shifting of the lock for the gate.

15 Other and further objects will appear in the following description and will be more particularly pointed out in the appended claims.

In the drawings:—Figure 1 is a front elevation of one embodiment of our invention, and Fig. 2 is a front elevation of another embodiment of our invention.

20 In the embodiment shown in Fig. 1, 1 indicates the record cylinder, 2 the cylinder frame, 3 the bed plate, 4 the pivoted starting lever, 5 the motor shaft, 5' the motor, 6 the brake disk and 7 the hinged gate, all of which are of any desired construction.

25 Positioned below the front end of the gate 7 when the gate is in closed position, is the upper beveled end 8 of a vertically movable plunger or trip 9 which works through an opening in the bed plate and is pivoted at its lower end to one arm of a bell crank lever 10 suspended from the underside of the bed plate by a hanger 11. The other arm of the bell crank lever is pivotally connected to a link 12 which in turn is pivotally connected to the starting lever 4. It is apparent that when the gate is closed it will ride on the upper beveled end of the plunger 9 and depress the same, which in turn, through the bell crank lever 10 and link 12, will shift the starting lever and release the motor shaft. When the gate is opened to remove the cylinder, the plunger will rise under the action of a coil spring 13 interposed between the bed plate and the headed and beveled upper end 8 of the plunger 9, thus shifting the starting lever to stop the motor shaft.

35 In the embodiment shown in Fig. 2, the known construction of the machine may be the same except that the gate is held closed by a manually operated cam lock 14 which is also old in the art. To this manually operated cam lock there is pivoted the upper end of a

plunger 9^a which extends through an opening in the bed plate and is swiveled to one end of a bell crank lever 10^a hung from the under side of the bed plate by a hanger 11^a. A link 12^a connects the starting lever 4 and the bell crank lever 10^a. The starting and the stopping is in this latter embodiment positively controlled by the gate lock.

50 It will be noted that all parts of our invention, with the exception of the upper end of the plunger 9 or 9^a, are mounted below the bed plate and are thus out of the way of the operator.

In both embodiments, a part of the gate either the gate body or the gate lock controls the plunger and consequently the starting lever, both on opening and on closing the gate.

Having thus described our invention, what we claim and desire to secure by Letters Patents, is:—

1. In a starting and stopping mechanism for phonographs, the combination with the starting lever, a gate part, a motor shaft, a brake disk upon the shaft; of a plunger controlled by the gate part, a bell-crank lever connected to the plunger, and a link connecting the bell-crank and the starting lever to operate the latter with respect to the brake disk upon opening or closing of the gate.

2. In a starting and stopping mechanism for phonographs, the combination with the bed plate, the starting lever and a gate part, of means connected to the starting lever below the bed plate and controlled by the gate part.

3. In a starting and stopping mechanism for phonographs, the combination with the bed plate, the starting lever and the gate part, of a spring actuated plunger operated by the gate part, a bell crank lever hung from the under side of the bed plate and connected to the plunger, and a link connecting the bell crank lever and the starting lever.

4. In a starting and stopping mechanism for phonographs, the combination with the starting lever, and a gate part, of a plunger controlled by the gate part, a bell crank lever connected to the plunger, and a link connecting the bell crank lever and the starting lever.

5. In a phonograph, a motor for operating the phonograph, a gate for the phonograph cylinder, means connecting the said gate with the motor, whereby the motor is started and stopped by operating the gate.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

CLARENCE HAMILTON WILKES.
HOWARD LYKE.

Witnesses:
CHARLIE NETHANAY,
ARTHUR W. HYDE.