No. 878,516. PATENTED FEB. 11, 1908.

I. G. FOSLER.

TALKING MACHINE.

APPLICATION FILED JULY 15, 1907.

Fig. 1

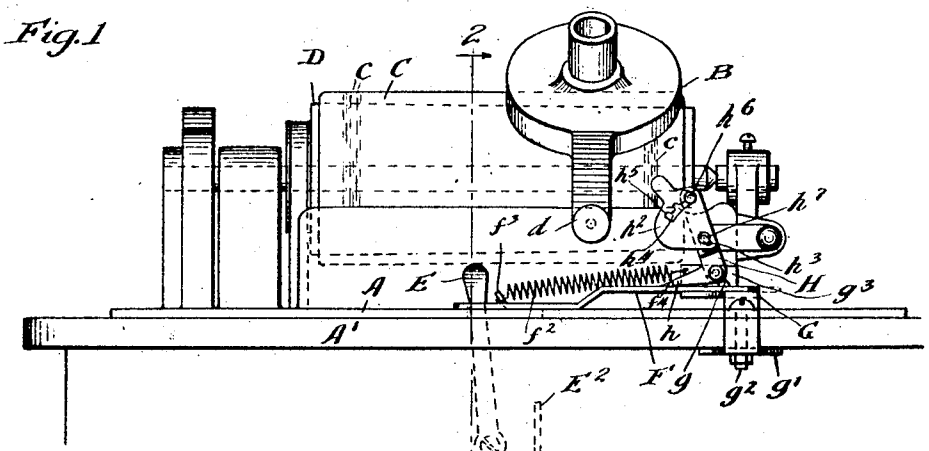

Fig. 2

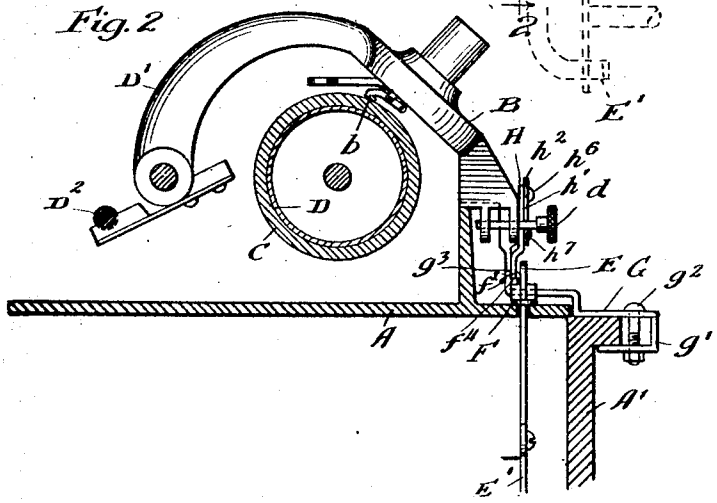

Fig. 3

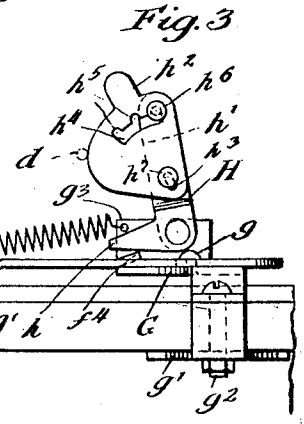

Fig. 4

Witnesses

Wm. Geiger

H. W. Munday

Inventor:
Ira G. Fosler

By Munday, Evarts, Adcock & Clark.

Attorneys

UNITED STATES PATENT OFFICE.

IRA G. FOSLER, OF CHICAGO, ILLINOIS.

TALKING-MACHINE.

No. 878,516. Specification of Letters Patent. Patented Feb. 11, 1908.

Application filed July 15, 1907. Serial No. 383,804.

To all whom it may concern:

Be it known that I, IRA G. FOSLER, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Talking-Machines, of which the following is a specification.

My invention relates to improvements in talking-machines.

In the practical operation of talking-machines, considerable difficulty and annoyance has heretofore been experienced from the fact that the machine continues to run after the sound reproduction on the record has been completed, the "overrunning" of the record as it is called, not only producing a disagreeable noise but also tending to wear away and injure the reproducing stylus.

The object of my invention is to provide a simple, efficient and durable construction of talking machine which will automatically stop when the reproducing stylus reaches the end of the sound record to be reproduced.

My invention consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described by which this object or result is practically accomplished.

In the accompanying drawing forming a part of this specification, Figure 1 is a front elevation of a talking machine embodying my invention. Fig. 2 is a detail vertical section on line 2—2 of Fig. 1. Fig. 3 is a detail elevation showing the parts in a different position from that illustrated in Fig. 1. Fig. 4 is a detail plan view partly in horizontal section.

In the drawing, A represents the frame of the machine, B the reproducer having the customary stylus b traveling in the sound record groove c of the record C, D the rotary mandrel or holder to which the record C is secured, D^1 the traveling carriage or support upon which the reproducer is mounted and D^2 the feed-screw for the reproducer carriage.

E is the stopping and starting lever having the customary brake arm E^1 engaging the brake wheel E^2 of the governor or speed regulating device. All these parts may be of any suitable kind or construction customarily employed in phonographs, graphophones or other talking machines. For convenience in the drawing, I have illustrated the same as being of a well known phonograph construction.

In order to automatically stop the machine and further rotation of the record C when the reproducer reaches the end of the sound record groove c thereon, I connect with the stop lever E of the talking machine an automatically movable stop device or slide F preferably having a slot f to receive the upper end of the stop lever E and a slot f^1 to receive the guide pin or projection g on the clamp G, by which, in connection with the clamp piece g^1 and clamp screw g^2, the automatic stop device is mounted upon the frame of the machine or its inclosing box A^1. The stop slide or device F is furnished with a spring f^2 engaging an integral lip f^3 on the stop slide at one end, and an upwardly projecting flange g^3 on the fixed clamp G at the other end. This spring, when the stop slide is released by the releasing trigger H, serves to automatically retract the stop slide and operate the stop lever E of the machine. The stop slide F is further provided with a set or projection f^4 which engages the toe h of the releasing trigger H, which is pivoted to the upright flange g^3 of the clamp G. The releasing trigger H is preferably not directly engaged by the traveling carriage but its upright arm h^1 is furnished with an adjustable arm h^2 which is so engaged by the reproducer carriage to operate the releasing trigger and release the stop slide when the reproducer carriage moves to the right to the required extent or until the reproducer stylus comes to the end of the sound record groove c in the record C. The releasing trigger is provided with an adjustable arm h^2 so that the automatic stop device may be set to operate at different positions of the reproducer carriage as the sound record grooves cover varying lengths of the record C according to the length of the song or piece of music that may be recorded thereon. The adjustable arm h^2 is preferably of sector shape and furnished with a pivot slot h^3 at its lower end and a curved slot h^4 at its upper end having a plurality of notches h^5 therein to engage the rivet h^6 in the upper arm h^1 of the releasing trigger. The adjustable arm is secured to the releasing trigger at its lower end by a rivet h^7. By simply slipping the releasing trigger slightly upward, the upper rivet h^6 will be free from the notches h^5, and then the adjustable arm can be swung to either side into position for the upper rivet h^6 to enter another notch h^5 in the adjustable arm h^2.

In operation when the reproducer carriage

moves to the right as indicated in Fig. 1 of the drawing, to the required extent, it engages the adjustable arm h^2 of the releasing trigger and thus releases the spring actuated stop slide F and causes the same to automatically operate the stop lever E and stop the machine.

The reproducer carriage D^1 has a handle or pin d which engages the adjustable arm h^2.

I claim:—

1. In a talking machine, the combination with the rotary record holder, reproducer, reproducer carriage and the stop lever, of an automatic stop slide having a setting projection, a spring for actuating said stop slide, a clamp upon which said stop slide reciprocates, a releasing trigger having an adjustable arm in the path of the reproducer carriage to automatically stop the machine and prevent overrunning of the sound record, said releasing trigger having an upright arm furnished with upper and lower rivets, and said adjustable arm having a pivot slot at its lower end and a curved slot at its upper end furnished with a plurality of adjusting notches adapted to engage said upper rivet, substantially as specified.

2. The automatic stop attachment for talking machines comprising a clamp having a movable clamp piece and clamp screw and provided with an upturned flange, a stop slide having a slot at one end to receive the stop lever of the talking machine, and a slot at the other end for connection with said clamp, a spring connecting said stop slide and clamp, a set projection on the stop slide and a releasing trigger furnished with an adjustable arm having a pivot slot and a curved slot furnished with a plurality of adjusting notches, substantially as specified.

3. The automatic stop attachment for talking machines comprising a clamp, a stop slide mounted thereon, and having a set projection for engagement with the releasing trigger and a slot to receive the stop lever of the talking machine, a spring connecting said stop slide and clamp and a releasing trigger mounted pivotally upon said clamp, said releasing trigger having an adjustable arm furnished with a pivot slot at its lower end and a curved slot at its upper end provided with a plurality of adjusting notches, substantially as specified.

IRA G. FOSLER.

Witnesses:
H. M. MUNDAY,
EDMUND ADCOCK.