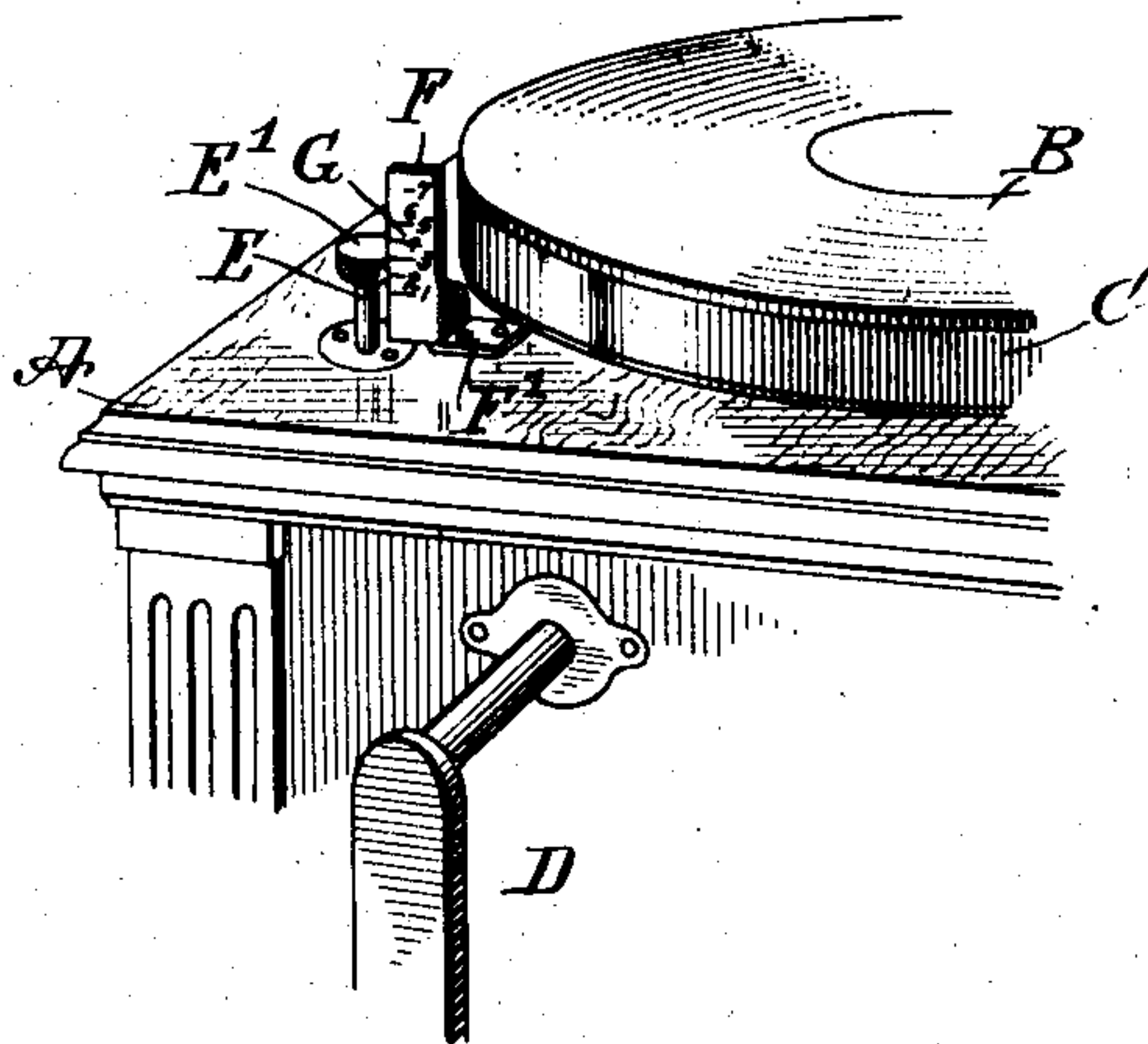


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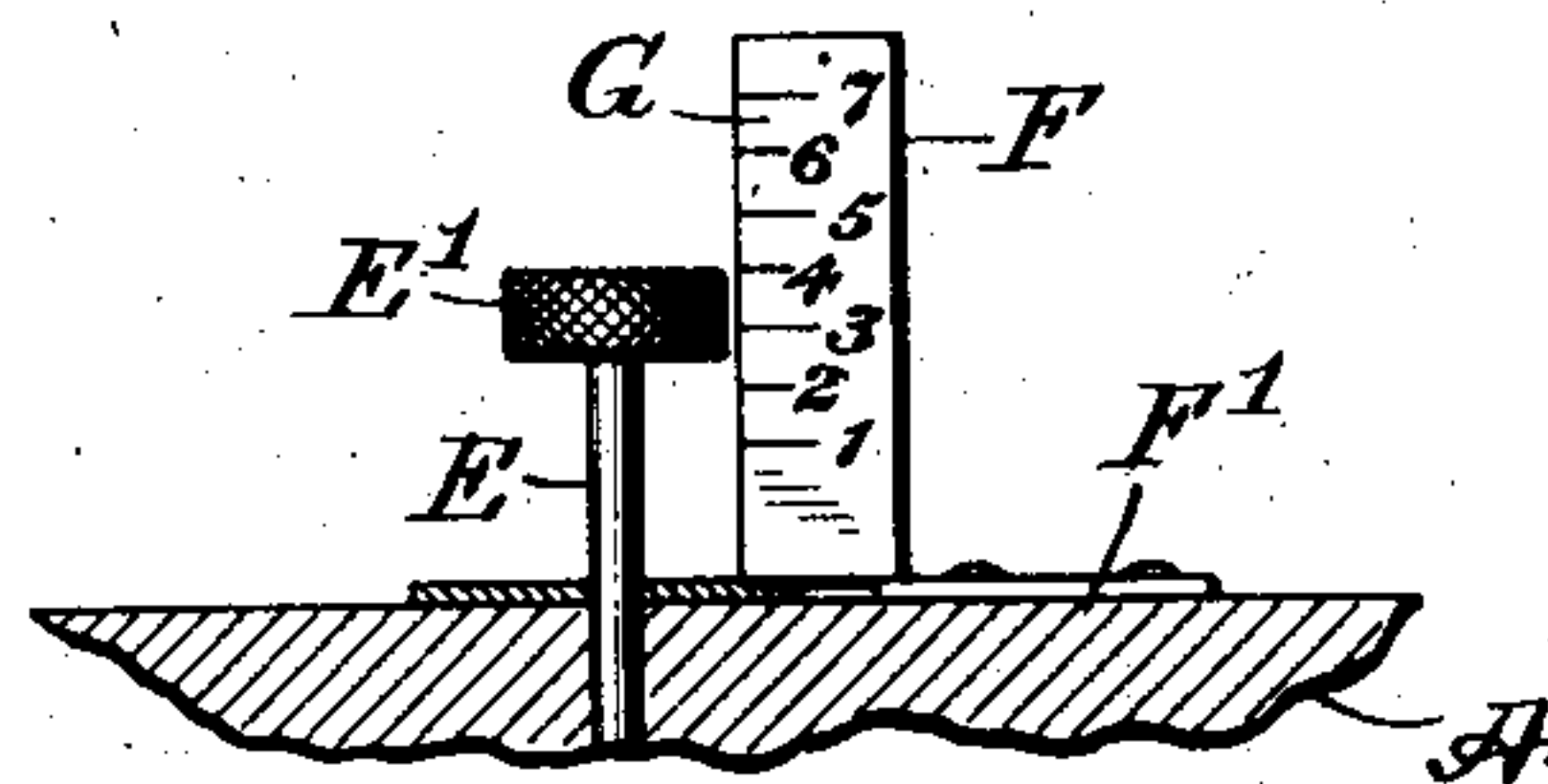
PATENTED OCT. 23, 1906.

E. H. RIORDAN.  
SPEED INDICATOR.  
APPLICATION FILED FEB. 12, 1906.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

EDMOND HUGH RIORDAN, OF IDAHO CITY, IDAHO.

## SPEED-INDICATOR.

No. 834,079.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed February 12, 1906. Serial No. 300,681.

*To all whom it may concern:*

Be it known that I, EDMOND HUGH RIORDAN, a citizen of the United States, and a resident of Idaho City, in the county of Boise and State of Idaho, have invented a new and Improved Speed-Indicator, of which the following is a full, clear, and exact description.

The invention relates to talking-machines; and its object is to provide a new and improved speed-indicator arranged to enable the user of the machine to quickly and conveniently adjust the speed of the motor, and consequently that of the record, to insure playing of the record-piece in proper time.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the views.

Figure 1 is a perspective view of the improvement as applied to a Victor talking-machine, and Fig. 2 is a sectional side elevation of the same.

The talking-machine of any approved construction is mounted on the usual casing A, and the record B is held on a turn-table C, driven by a suitable spring-motor arranged within the casing A and adapted to be wound up by winding-up mechanism D, extending to the outside of the casing A. The speed of the motor is regulated by the usual speed-regulating screw E, extending through the top of the casing A and having on its upper end a head E', adapted to be taken hold of by the operator for conveniently screwing the speed-regulating screw up or down to regulate the speed of the motor in the usual manner. Adjacent to this outer end of the speed-regulating screw E is arranged a vertically-disposed indicator-plate F, provided at its lower end with a flange F', fastened by nails, screws, or like fastening devices to the top of the casing A between the regulating-screw E and the turn-table C, as plainly indicated in Fig. 1. On the front face of the indicator-plate F is arranged a graduation G, preferably consisting of spaced lines numbered consecutively, as shown in the drawings, the top face of the head E' of the regulating-screw E indicating on the said lines to indicate the speed of the motor.

In using the Victor talking-machine the

operator places a record B on the turn-table C, then starts the motor. The operator now screws the speed-regulating screw E up or down until the proper speed is obtained—that is, the piece of music or the like is reproduced in correct time. When this has been done, the motor is stopped and the user of the machine marks the record B in any suitable manner with the graduation-numeral corresponding to the mark opposite the top of the head E'. Thus when the marked record is later on again used on the machine it is only necessary for the operator to look at the numeral marked on the record, and then the operator adjusts the speed-regulating screw E until the top of the head E' registers with the corresponding numeral on the indicator-plate G. When the motor then is started, the record is turned at the proper speed to reproduce the piece of music in correct time.

The indicator is very simple and durable in construction and can be readily applied to machines now in use, it being evident that the owner of the machine can readily mark the records as above described to allow future reproductions of the record-piece in proper time. It is also evident that the indicator may be applied to new machines and the records marked correspondingly by the manufacturers of the machines and before they are sold.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a speed-indicator for a talking-machine, the combination with the machine-casing and the speed-regulating screw of the motor for the talking-machine adjustable in and out of the casing to regulate the speed of the motor, of an indicator-plate having means for attachment to the machine-casing, the said indicator-plate extending parallel with the speed-regulating screw and provided with a graduation on which the speed-regulating screw indicates.

2. In combination with a talking-machine having a casing, a turn-table and a speed-regulating screw, of an indicator-plate disposed vertically on top of the casing adjacent to the head of the said speed-regulating screw, the said screw being adjustable lengthwise of and parallel with the said plate, and a graduation on the said plate with which the screw may be adjusted to aline the top of said screw with said graduation.

3. In combination with a talking-machine



having a casing, a turn-table and a speed-regulating screw, of an indicator-plate disposed vertically on top of the casing adjacent to the head of the said speed-regulating  
5 screw, the said plate being provided at its bottom with a flange attached to the said casing, the said screw being adjustable lengthwise of and parallel with the said plate, and a graduation on the said plate with

which the screw may be adjusted to aline the top of said screw with said graduation.

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

EDMOND HUGH RIORDAN.

Witnesses:

WM. WARNER,  
J. A. LIPPINCOTT.