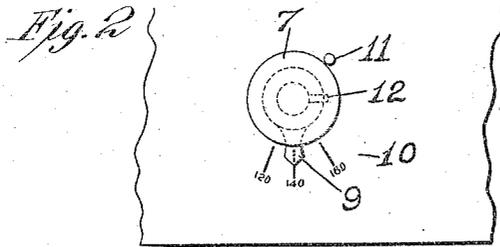
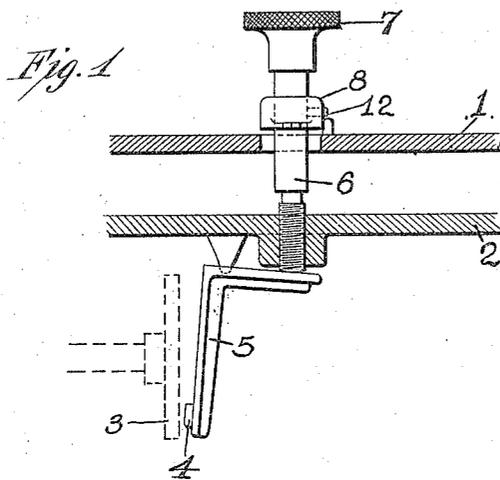


No. 811,010.

PATENTED JAN. 30, 1906.

P. WEBER.  
PHONOGRAPH SPEED INDEX.  
APPLICATION FILED JUNE 29, 1904.



Witnesses:

*Jas. F. Coleman*  
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# UNITED STATES PATENT OFFICE.

PETER WEBER, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO NEW JERSEY PATENT COMPANY, OF ORANGE, NEW JERSEY, A CORPORATION OF NEW JERSEY.

## PHONOGRAPH SPEED-INDEX.

No. 811,010.

Specification of Letters Patent.

Patented Jan. 30, 1906.

Application filed June 29, 1904. Serial No. 214,596.

*To all whom it may concern:*

Be it known that I, PETER WEBER, a citizen of the United States, residing at 571 Park avenue, East Orange, county of Essex, and State of New Jersey, have invented a certain new and useful Phonograph Speed-Index, of which the following is a description.

My present invention relates to an improved device for addition to an ordinary phonograph for indicating the speed at which the mandrel may be operated. This is a desirable practical requirement, since, as is well known, it is highly important that a phonographic musical record should be reproduced at the same surface speed at which the original master-record was secured, and with present devices the determination of the proper speed is a matter of careful adjustment and with most users a question of mere guesswork.

My invention provides a very simple index by means of which the phonograph may be adjusted at the desired speed without the necessity of any experimental manipulation.

In order that the invention may be better understood, attention is directed to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a sectional view of a part of the mechanism of an ordinary phonograph, showing the top plate, motor-frame, governing-lever, governing-disk, and adjusting-screw, with my present improvements applied thereto; and Fig. 2, a top view looking down on the adjusting-screw.

In both of the views corresponding parts are represented by the same reference-numerals.

The top plate 1 carries the motor-frame 2 in the usual way. The high-speed-shaft of the spring-motor (not shown) drives the governor-disk 3, with which coöperates a pad 4 on the governing-lever 5. As the speed of the motor increases, the governor-disk 3 is drawn into engagement with the pad 4 until

the friction developed tends to retard any further acceleration in the speed and maintains the speed constant at a point determined by the position of the governing-lever. Engaging the governing-lever is adjusting-screw 6, working in the motor-frame 2 and having a milled head 7, by which it may be turned. The parts so far described are of the usual construction.

Mounted on the adjusting-screw 6 is a collar 8, carrying an index 9, which coöperates with a scale 10 on the top plate. A stop 11 is engaged by the index 9 to prevent the adjusting-screw from being turned more than a complete rotation, so that when the index 9 corresponds with any figure on the scale 10 the speed of the motor will correspond to that figure. The collar 8 is adjustably mounted on the shank of the adjusting-screw 6 and secured in a position by a set-screw 12, so that the parts can be readjusted from time to time to accommodate any slight wear of the pad 4 or any lost motion in the operating parts.

Having now described my invention, what I claim as new therein, and desire to secure by Letters Patent, is as follows:

1. The combination with the governor-disk, governing-lever and adjusting-screw of a spring-operated phonograph, of an index carried by the adjusting-screw and coöperating with a stationary scale, and means for preventing the adjusting-screw from being turned more than a complete revolution, substantially as set forth.

2. In a phonograph or the like, and in combination with the speed-adjusting screw, of a finger adjustably carried by the screw, and a stop in the path of said finger.

This specification signed and witnessed this 28th day of June, 1904.

PETER WEBER.

Witnesses:

HARRY G. WALTERS,  
MINA C. MACARTHUR.