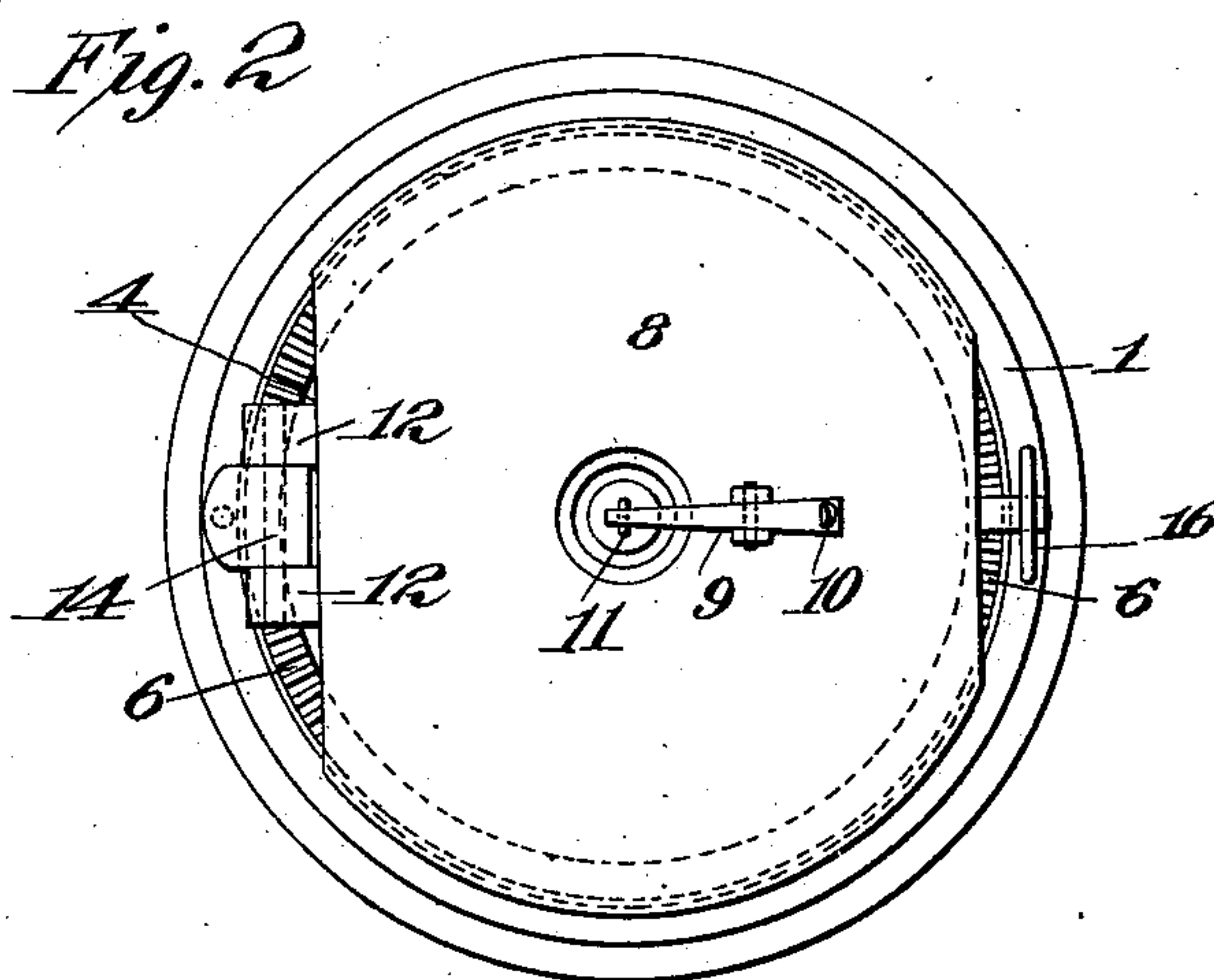
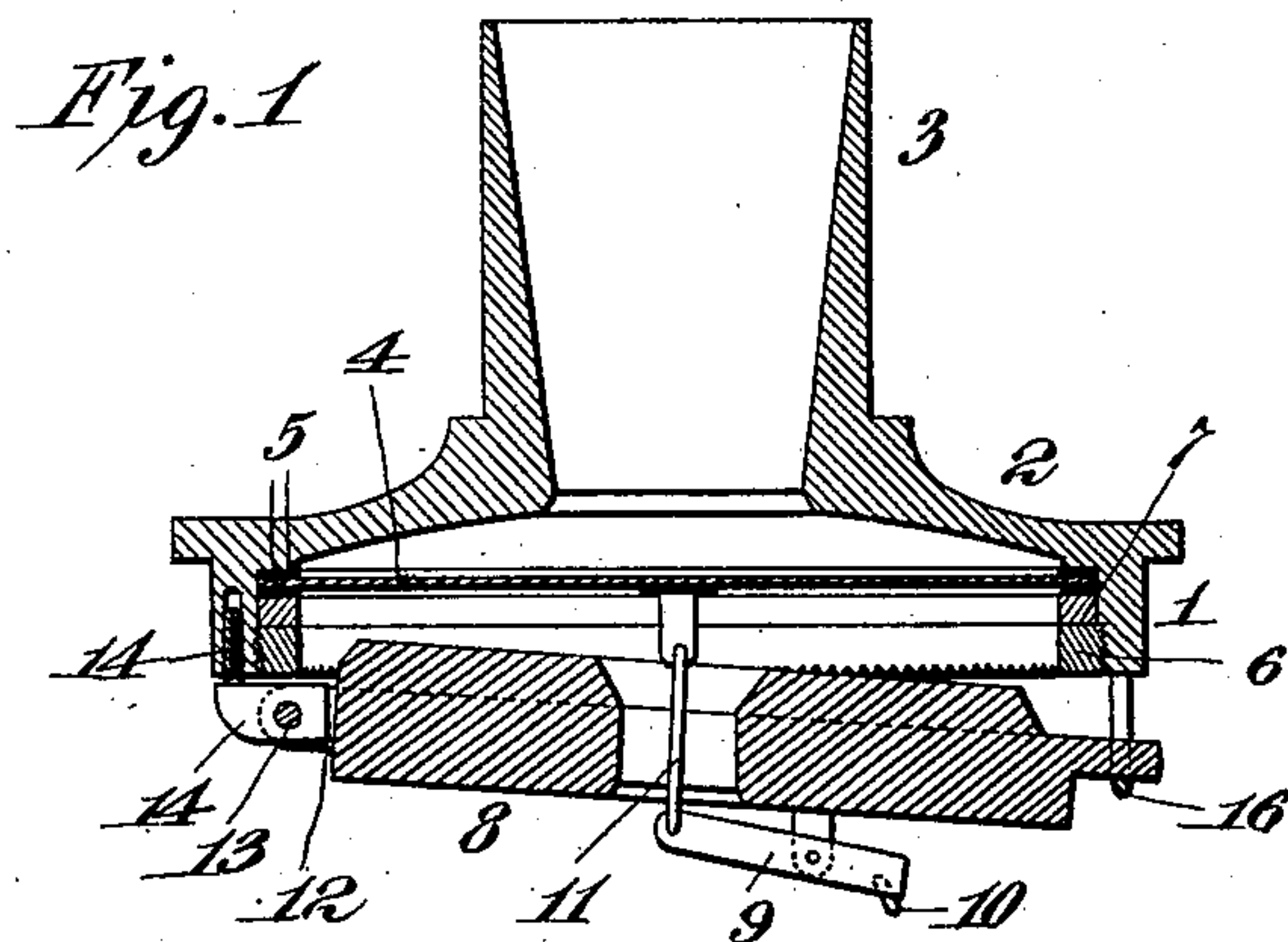


No. 744,266.

PATENTED NOV. 17, 1903.

P. WEBER.  
PHONOGRAPHIC RECORDER AND REPRODUCER.  
APPLICATION FILED FEB. 6, 1901.

NO MODEL.



Witnesses:

*Jas. F. Coleman*  
*Geo. R. Taylor*

Inventor

*Peter Weber*  
by *Alfred Edmunds & Co.*  
Att'ys.

# 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.

## PHONOGRAPHIC RECORDER AND REPRODUCER.

SPECIFICATION forming part of Letters Patent No. 744,266, dated November 17, 1903.

Application filed February 6, 1901. Serial No. 46,168. (No model.)

*To all whom it may concern:*

Be it known that I, PETER WEBER, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented a certain new and useful Improvement in Phonographic Recorders and Reproducers, (Case A,) of which the following is a description.

My invention relates to improvements in phonographic recorders and reproducers; and my object is to provide details of improvements in these devices for cheapening their cost of production and increasing their effectiveness.

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

Figure 1 is a vertical sectional view illustrating a phonographic reproducer embodying my present improvements, and Fig. 2 a bottom view of the same.

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

The body 1 of the recorder or reproducer is annular and is provided with an upwardly-flaring disk top 2, having a neck 3 for attachment to the usual speaking or listening tubes. These parts are preferably cast in a single piece, whereas at the present time it is the custom to make the body 1 separate from the disk 2 and to secure such parts together by a clamping-ring. The diaphragm 4, made, preferably, of glass, is supported within the body 1 between rubber gaskets 5 5 and held in place by means of a clamping-ring 6, which engages threads cut on the interior of the body, said clamping-ring engaging a washer 7, so that the clamping-ring may be rotated without affecting the gaskets. This makes a very cheap, simple, and effective construction. The compensating weight 8 may be of any suitable type, and to which is pivoted the lever 9, carrying the recording or reproducing stylus 10, said lever being connected to the diaphragm by a link 11 in the usual

way. The compensating weight is provided with two ears 12 12, which are pivoted on a pin 13, passed through the head 14 of a screw 15, the latter engaging the body 1, as shown. By first pivoting the compensating weight on the head 14 the screw 15 may be engaged with the body 1 without being screwed entirely home, whereby the compensating weight will be free to partake of slight lateral movements (when used in connection with the reproducer) in order that the record may be properly tracked. At the other end the counteracting-weight is supported within a loop 16, having a sufficient horizontal width to permit the lateral movements in reproducing to take place. When, however, the device is used as a recorder, the loop may be in the nature of vertical guides to prevent lateral movements, as will be understood.

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

1. In a device of the class described, the combination with an inclosing body and a diaphragm carried thereby, of a counteracting-weight, a lever pivoted to said weight and connected with the diaphragm, a stylus carried by said lever, and a threaded shank engaging the body and to which the weight is pivoted, substantially as set forth.

2. In a device of the class described, the combination with an inclosing body and a diaphragm carried thereby, of a counteracting-weight, a lever pivoted to said weight and connected with the diaphragm, a stylus carried by said lever, a threaded shank engaging the body and to which the weight is pivoted, and a loop for supporting the other extremity of said weight, substantially as set forth.

This specification signed and witnessed this 30th day of January, 1901.

PETER WEBER.

Witnesses:

HARRY F. MILLER,  
J. H. MORAN.