

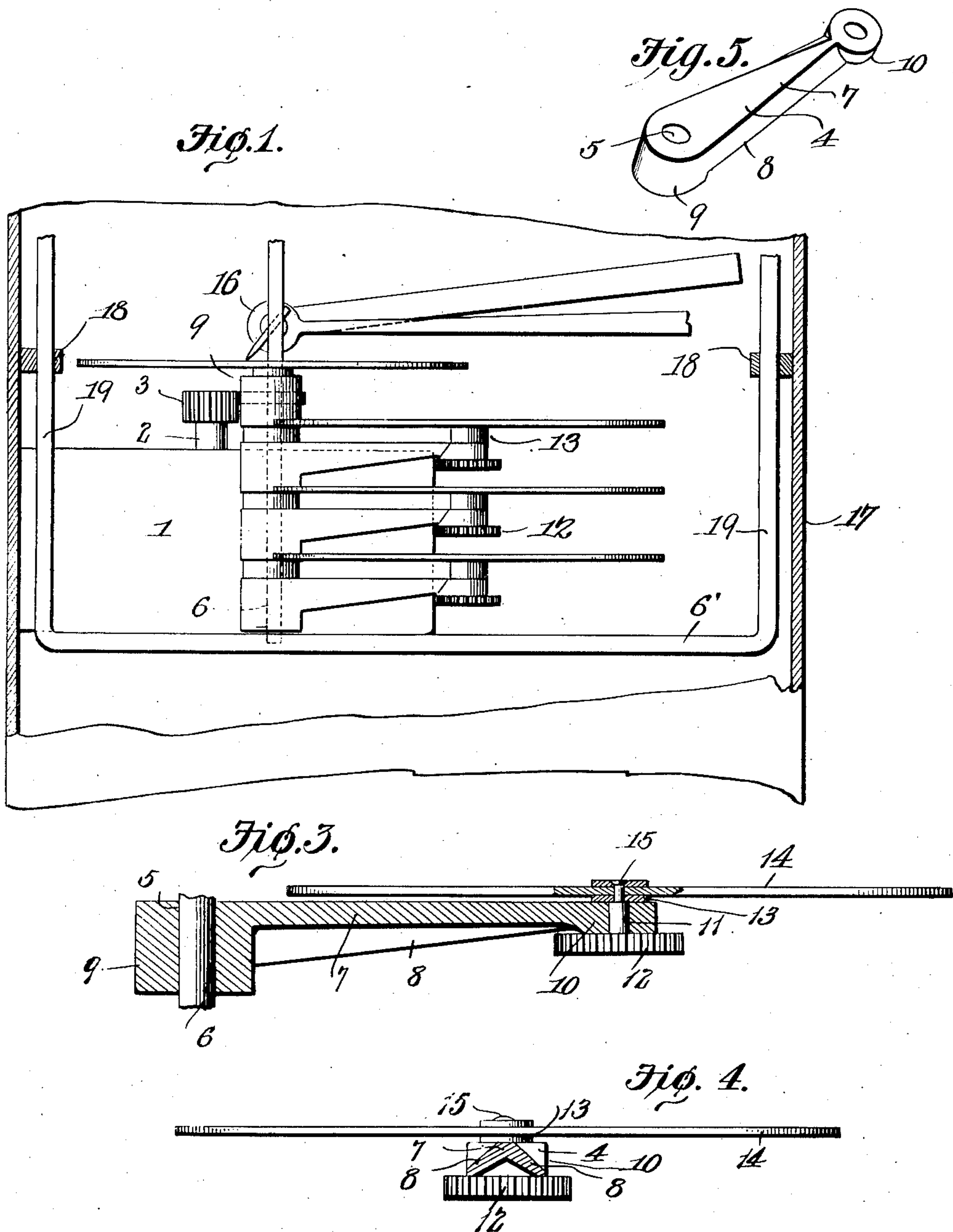
No. 839,902.

PATENTED JAN. 1, 1907.

W. C. SPURGEON.  
PHONOGRAPH AND DISK HOLDER.

APPLICATION FILED JUNE 26, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

*E. J. Stewart*  
*R. H. ...*

Walter C. Spurgeon,  
INVENTOR

By *C. A. Snow & Co*  
ATTORNEYS

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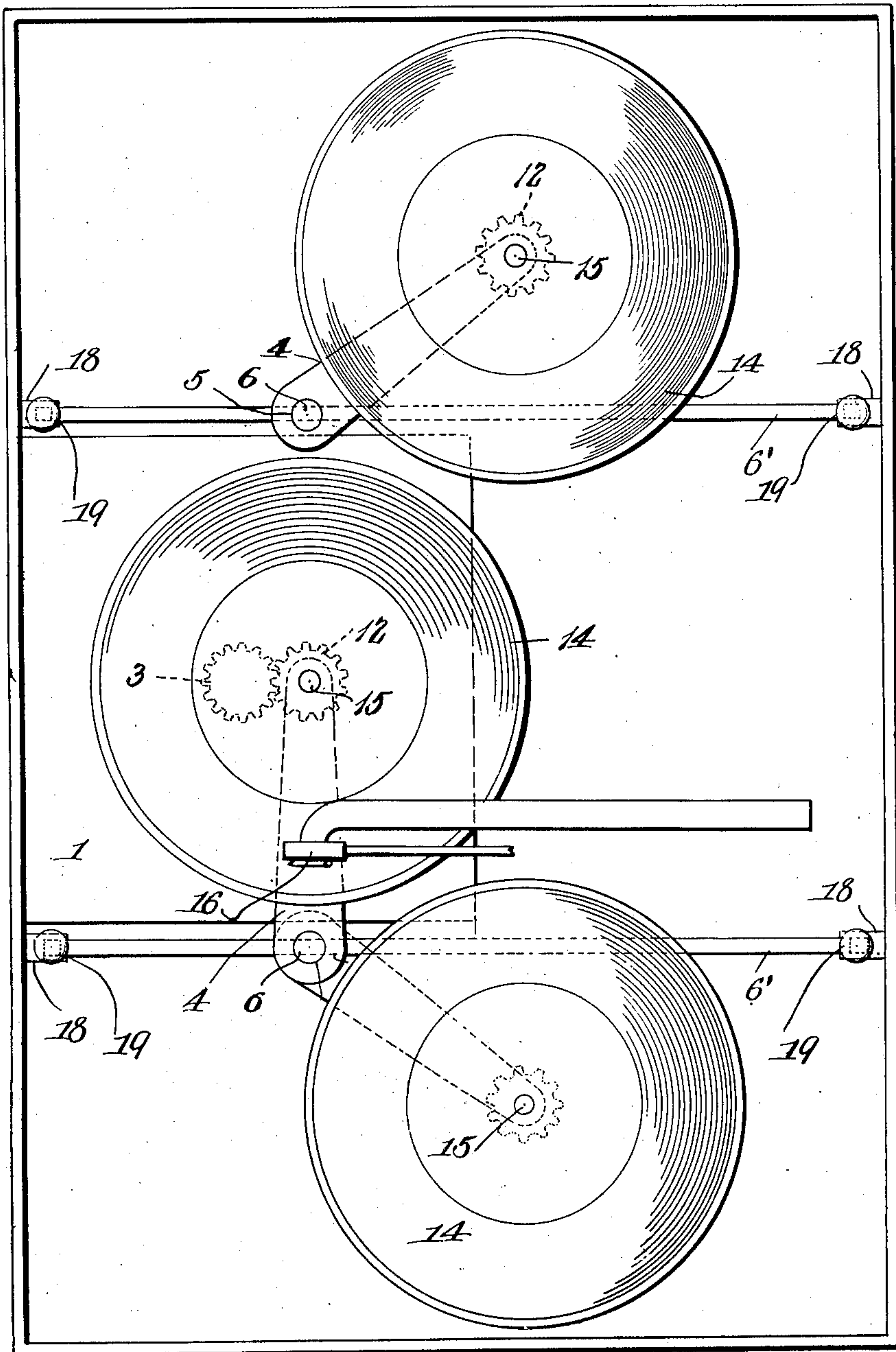


Fig. 2.

WITNESSES:

*E. J. Stewart*  
*Edmund Stewart*

Walter C. Spurgeon,  
INVENTOR

By *CA Snow & Co*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

WALTER CARL SPURGEON, OF MILROY, INDIANA.

## PHONOGRAPH AND DISK-HOLDER.

No. 839,902.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed June 26, 1906. Serial No. 323,506.

*To all whom it may concern:*

Be it known that I, WALTER CARL SPURGEON, a citizen of the United States, residing at Milroy, in the county of Rush and State of Indiana, have invented a new and useful Phonograph and Disk-Holder, of which the following is a specification.

This invention has relation to phonographs and disk-holders; and it consists in the novel construction and arrangement of its parts, as hereinafter shown and described.

The object of the invention is to provide a phonograph with a disk-holding means whereby any one of a number of disks may be brought into position with relation to the motor and the reproducer whereby the record may be produced. The disks are mounted on holders of special construction. The disk-holder consists of disk-supporting arms journaled upon a vertically-arranged shaft. Said shaft in turn is mounted upon a frame which is adapted to be moved up and down, a means being provided for retaining said frame at certain elevations. At the end of each disk-supporting arm is journaled a shaft. To the lower end of said shaft is fixed a gear-wheel, and to the upper end of said shaft the disk is attached. A gear-wheel is fixed to the upper end of the motor-shaft, and the said arms are adapted to be swung so that their gear-wheels may be brought in mesh with the gear-wheel on the motor-shaft. A number of sets of arms are suitably arranged about the motor so that their disks may be operated by the same, and at the same time a single reproducer may be used for reproducing the record from any particular disk.

In the accompanying drawings, Figure 1 is a sectional view of the casing, showing a side elevation of the lower part of one of the frames and a few disks, the top one being shown in contact with the motor. Fig. 2 is a top plan view of the casing, showing the arrangement of two sets of disks. Fig. 3 is a longitudinal sectional view of one of the disk-supporting arms. Fig. 4 is a transverse sectional view of one of the disk-supporting arms, and Fig. 5 is a perspective view of one of the disk-supporting arms.

The phonograph consists of the motor 1, which may be either spring-actuated or electric, and to the upper end of the shaft 2 thereof is fixed the gear-wheel 3. The disk-supporting arm 4 is provided at one end with

the perforation 5, which is adapted to receive the shaft 6, which is fixed at its lower end to the frame 6'. The disk-supporting arm 4 consists of the solid upper portion 7, which extends throughout its entire length, and the side flanges 8 8, depending therefrom and increasing in thickness from the lower edges toward the solid portion 7. Said flanges 8 8 prevent the arm 4 from bending under the weight of the disk. Said flanges 8 8 are also pitched at acute angles to the upper surface of the portion 7. The inner end of the disk-supporting arm 4 is cylindrical, as at 9, and its outer end is also cylindrical, as at 10. The lower edges of the flanges 8 extend substantially from the lower edge of the cylindrical portion 9 to the lower edge of the cylindrical portion 10, the portion 9 being thicker than the portion 10. The entire upper surface of the disk-supporting arm is in the same plane. The shaft 11 is journaled in the cylindrical portion 10 of the said arm, and to the lower end of said shaft 11 is fixed a gear-wheel 12. A washer 13 is located upon said shaft 11 and rests upon the upper surface of the disk-supporting arm 4. The disk 14 rests upon the washer 13, and the disk-clamping means 15 fits upon the upper end of the shaft 11 and engages the upper surface of the disk 14. The disk-supporting arms 4 are suitably arranged about the gear-wheel 3 of the motor 1, so that any arm may be swung as to bring its gear-wheel in mesh with the said motor gear-wheel. The reproducer 16 is so arranged as to have its needle-point operate in the grooves of any disk when it is in turn in operative communication with the motor.

The frame 6' is adapted to be vertically adjusted manually in the casing 17. The said casing is provided on its inner sides with the oppositely-arranged guides 18 18. The ends 19 19 of the frame 6' extend vertically and pass through the guides 18 18 and are held at the desired points therein by frictional contact therewith. It is obvious that as the said frame 6' is raised or lowered any disk 14 of a set may be brought to such a level as to be swung into operative engagement with the gear-wheel 3 of the motor. It will thus be seen that the disks are retained in convenient proximity to the motor and by being so mounted any particular disk may be readily thrown into operative engagement with the motor while the disks not in use are

swung back on their respective arms out of the way.

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

The combination with a motor, a vertically-adjustable shaft located in the vicinity thereof, a plurality of disk-supporting arms journaled on said shaft, a vertically-movable

frame supporting said shaft and snug-fitting 10 guides receiving said frame.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WALTER CARL SPURGEON.

Witnesses:

MYRON A. PARDUN,  
ARIE M. TAYLOR.