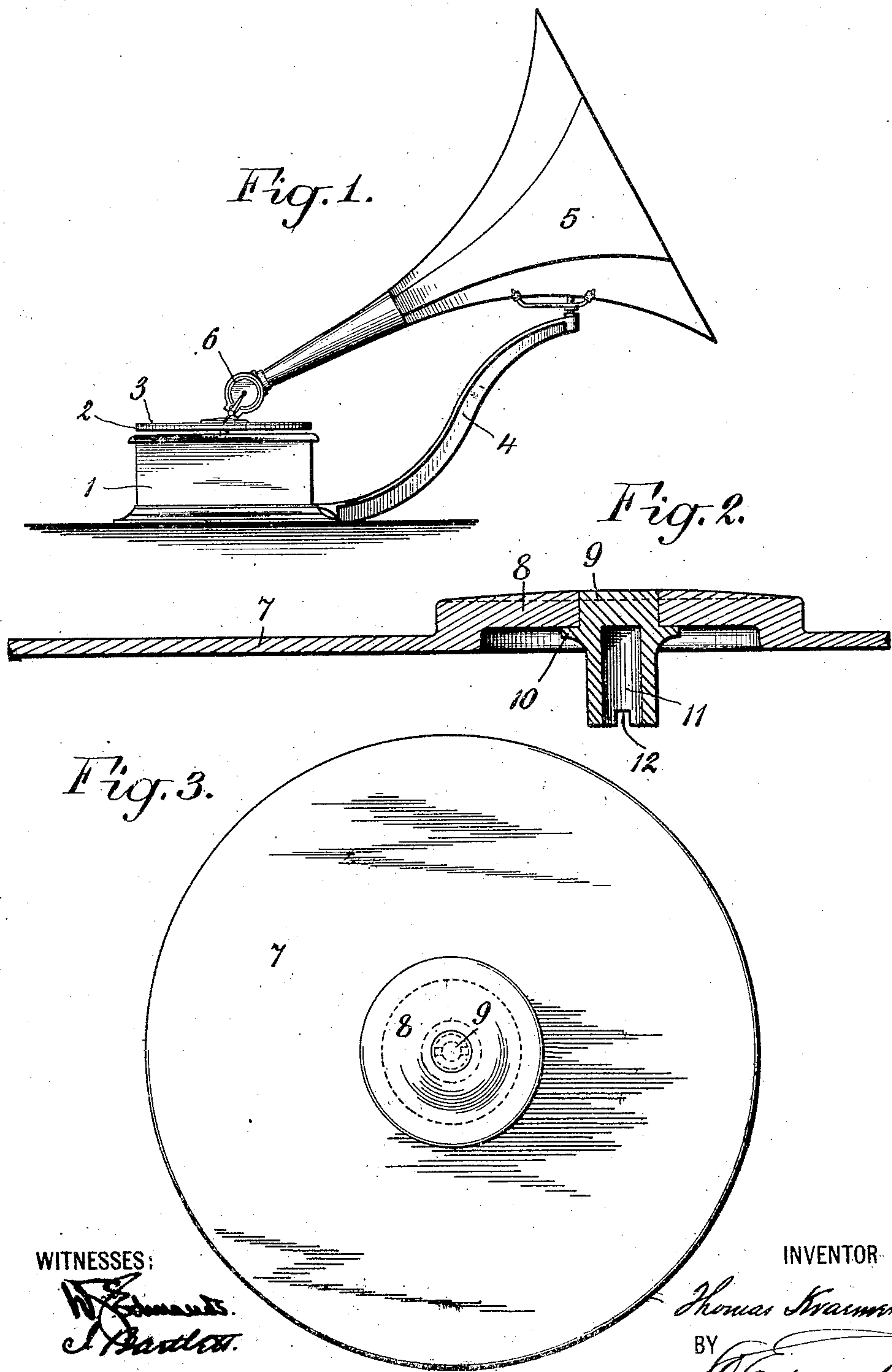


T. KRAEMER.
TALKING MACHINE.
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WITNESSES:

W. Edwards.
J. Bartlett.

INVENTOR

Thomas Kraemer

BY

J. C. Edwards
ATTORNEY

UNITED STATES PATENT OFFICE.

THOMAS KRAEMER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HAWTHORNE & SHEBLE MANUFACTURING COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

TALKING-MACHINE.

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To all whom it may concern:

Be it known that I, THOMAS KRAEMER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Talking-Machines, of which the following is a specification.

This invention relates to talking machines and has reference, more particularly, to the turntables of such machines on which sound-records of disk shape are supported during the operation of reproducing the recorded sounds.

In the exploitation of talking machines and sound-records therefor, it has been found desirable to so construct the machines or certain of the parts thereof as to preclude the use with such machines of records of other than a particular make, the object in doing this being to insure to the seller of a machine a reasonable profit from the sale of records for use thereon, such as will induce him to sell the machine at a low price. Heretofore, it has been sought to accomplish this by providing the turntables of talking machines which support the disk sound-records during the reproducing operation, with one or more projections of peculiar shape so that only records formed to correspond with such projections will lie flat upon the turntables in position for reproducing. These turntables as heretofore constructed, however, have not been successful in attaining the desired result. Thus, turntables have been provided with one or more integral projections of small cross-section on the upper faces thereof designed to pass through corresponding openings in the sound-records; but as these turntables are made of cast metal, a sharp blow with a hammer on the projection will cause it to break off practically flush with the surface of the turntable, and thereafter standard disk records may be used thereon. If projections of larger cross-sectional area were employed, such that they could not be broken off with a hammer, these could still be removed by putting the turntables in a lathe and cutting the projections down to the level of the faces of the turntables.

My invention is directed to the provision of a turntable of an improved construction, such that with it the use of sound-records of

other than the desired make is effectually prevented.

The preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of a talking machine, Fig. 2 is a central section of the turntable, broken away in part, and Fig. 3 is a top view of the turntable.

Referring to these drawings, a talking machine of a well-known type is illustrated, but it will be understood that the invention is applicable generally to all machines for reproducing from disk sound-records. The machine shown has a motor-box 1 within which is a motor driving a vertical shaft carrying at its upper end outside the box the turntable 2 on which the sound-record 3 rests. Secured to and extending outwardly from the box is an arm 4 on which an amplifying horn 5 is pivotally mounted. The reproducing mechanism 6, consisting of a sound-box and its stylus, is secured to the small end of this horn with the stylus tracking in the record-groove in disk 3.

The construction of the turntable is shown in Figs. 2 and 3. It consists of a flat disk having an annular portion 7, the upper face of which lies in a single plane. At the interior of this annular portion is an integral portion 8 which is raised somewhat above the surface of the annular portion 7 so that the under surface of portion 8 is slightly above the plane of the upper surface of annular portion 7 as shown in Fig. 2. At the center of the raised portion 8, means are provided to facilitate mounting the turntable in position on the shaft of the talking machine. Any suitable means may be provided for this purpose. In the present instance, the portion 8 is shown as having a central opening therethrough to receive the upper end of a member 9 which is secured within this opening, proper positioning of the parts relatively being insured by a circumferential flange 10 on member 9 coacting with the under surface of the raised portion 8. Extending up within the member 9 is a bore 11 to receive the upper end of the shaft of the motor and the wall of this bore may have a notch 12 therein to receive a pin on the shaft and thus insure the turning of the turntable with the shaft of the motor.

With the form of turntable herein de-

scribed, sound-records of annular form may be employed, these resting upon the upper face of the portion 7 with the raised portion 8 passing through the central opening therein. The peripheral shape of the raised portion 8 may be changed as desired to limit the machine to use with a particular style of records only. In any case, the turntable cannot be so changed as to adapt it for use with standard records. This is due primarily to the provision of the hollow raised portion 8 having its under surface flush with or above the upper surface of the annular portion 7. It will be seen that if the raised portion 8 were cut down in the effort to adapt the turntable for use with standard records, the central portion of the turntable would be severed from the outer portion and the turntable rendered useless.

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

1. A talking machine comprising a motor-box having a motor therein driving a vertical shaft, a turntable on said shaft, a sound-record on said turntable, a pivotally mounted sound-conveying tube, and reproducing mechanism secured to said tube with its stylus tracking in the groove in said record, said turntable having an outer annular portion on which the sound-record rests and an inner raised portion and the under surface of said raised portion being above the upper surface of the outer annular portion, substantially as set forth.

2. A turntable for a talking machine adapted to be mounted upon the motor-shaft

of the machine, said turntable having an outer portion and an inner raised portion and the under surface of said raised portion being above the upper surface of said outer portion, substantially as set forth.

3. A turntable for a talking machine having an outer annular portion, an inner raised portion integral therewith and having its under surface above the upper surface of said outer annular portion, and a member secured within a central opening in said raised portion, said member being formed to coact with the motor-shaft of the machine to support the turntable, substantially as set forth.

4. A turntable for a talking machine adapted to be mounted upon the motor-shaft of the machine, said turntable having an outer portion and an inner raised portion and the under surface of said raised portion lying in substantially the same plane as the upper surface of said outer portion, substantially as set forth.

5. A turntable for a talking machine adapted to be mounted upon the motor-shaft of the machine, said turntable having an outer annular portion and an inner raised portion integral therewith and the under surface of said raised portion being above the upper surface of said outer portion, substantially as set forth.

This specification signed and witnessed this 23rd day of March, 1908.

THOMAS KRAEMER.

Witnesses:

H. MUHLSCHLEGEL,
EMIL SCHNELL.