

L. K. SCOTFORD.
SUPPORT FOR TALKING MACHINE RECORDS.
APPLICATION FILED FEB. 7, 1914.

1,163,566.

Patented Dec. 7, 1915.

Fig. 1.

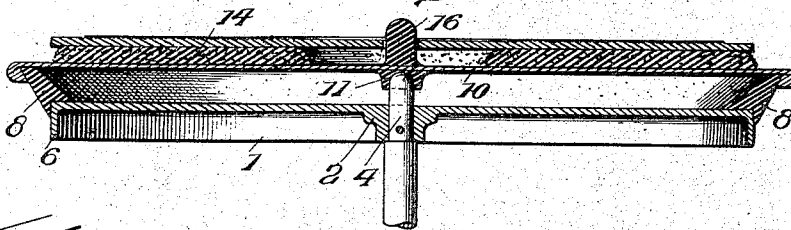


Fig. 2.

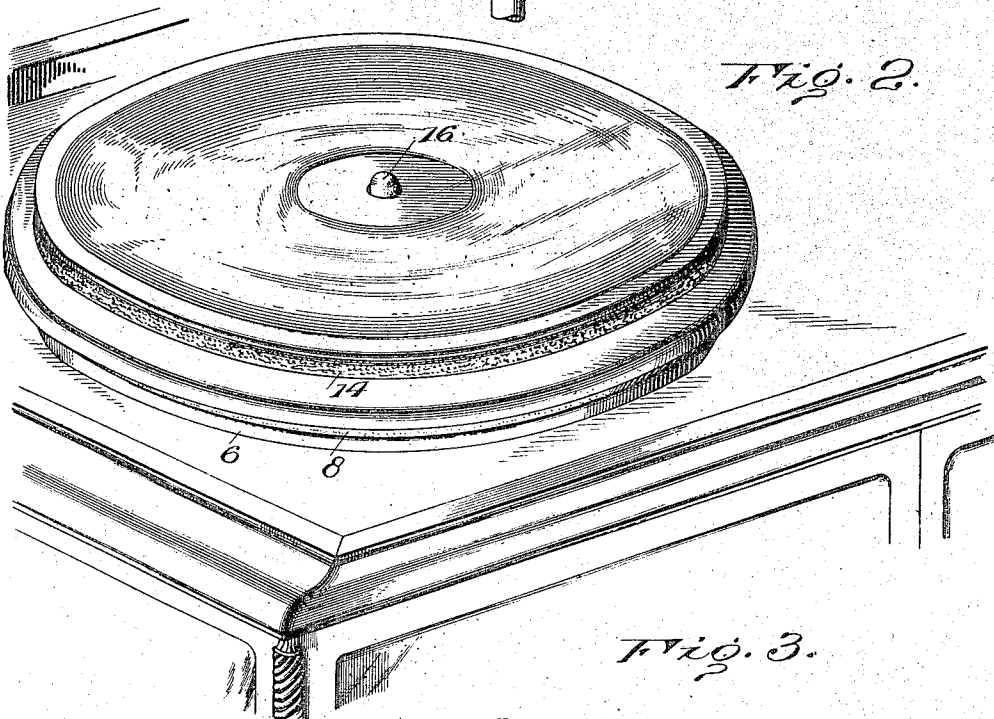


Fig. 3.

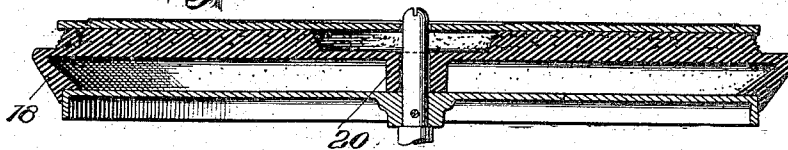
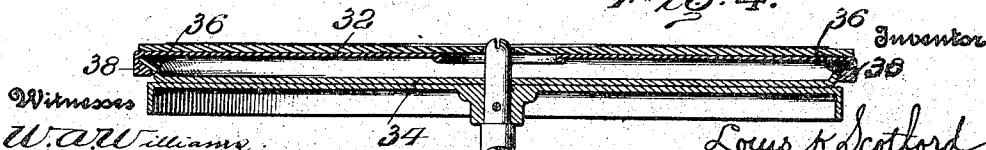


Fig. 4.



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SUPPORT FOR TALKING-MACHINE RECORDS.

1,163,566.

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To all whom it may concern:

Be it known that I, LOUIS K. SCOTFORD, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Supports for Talking-Machine Records, of which the following is a specification.

This invention relates to turn-tables, or rather to cushioning supports to be secured to turn-tables of ordinary talking machines. It is known that a disk record gives out sounds and it has therefore been suggested that the disk record may be used without a sound box.

It is the object of my invention to overcome as far as possible the disk giving out the sounds referred to, except through the proper channel, *i. e.*, the sound box.

I am aware that it has been proposed to provide the turn-table of a talking machine with a rubber covering having nibs or projections under the playing portion of the record. But when any cushion is provided which leaves an air space under the playing part of the record, even though that record may be supported at a number of different points, there is a hollow sound due to the fact that there are some points of the record, opposite the needle, where there is no direct support. I have discovered that the use of sponge rubber, particularly when this rubber is secured to a fabric stretched over the revolving disk, overcomes to a large extent the objections above referred to and also that the objections are in a measure overcome by a cushion of rubber stretched or suspended across the turn-table so as to support the disk record under the whole part thereof opposite the playing part of the record.

In one of the preferred embodiments of my invention, I obtain excellent results by stretching a fabric over the revolving disk with the sponge rubber on the fabric so formed as to contact with the back or under portion of the record opposite the needle. This construction provides a soft yielding bed on which to lay the record while playing—a bed that will not be rigid, but which will allow the record to “give” more or less freely.

While I have just described in general terms one of the preferable embodiments of my invention, I do not limit my claims thereto, but the invention consists in the con-

struction and arrangement of parts as herein described and definitely claimed.

In the accompanying drawings: Figure 1 is a sectional view of a turn-table having my invention applied thereto. Fig. 2 is a perspective view. Figs. 3 and 4 are sectional views of modified forms.

Referring now to the details of the drawings by numerals: 1 designates a turn-table as now commonly employed in talking machines and which is usually supported by an annular portion 2 projecting over the usual detachable axis 4 by which the turn-table is secured to the revolving member (not shown) usually driven by the spring motor of the machine. In the usual form in which the turn-tables are made, the turn-tables are provided with an annular flange 6 projecting downward from the periphery of the turn-table and in the preferred embodiment of my invention, I place over the turn-table 1 at its periphery a ring 8 formed with a recess to fit over the right angle formed by the flange 6 and the upper surface of the turn-table 1. This annular ring 8 is preferably formed of metal, although it could be formed of hard rubber or any other suitable substance.

My cushioned support in one of its preferred constructions consists of a piece of fabric, as 10, stretched over the turn-table and supported by the aforesaid ring 8; the fabric 10 having secured thereto a cushion of sponge rubber 14 which extends under the playing part of the record. If desired the sponge rubber cushion may be slightly rounded so that the weight of the record will flatten the cushion out and the record thereby be supported under the entire playing part. At the center may be secured a hub 11 extending downwardly to fit upon the ordinary center pin 4, and above this hub there may be a steadying pin 16 sufficiently high to project through the record on the cushioning support in the same manner as the records have usually been centered by the ordinary center pin 4.

Instead of employing the construction shown in Figs. 1 and 2, the ring 8 may be dispensed with and the device made entirely of rubber, in which event the rubber cushion will be provided with an annular member 18 to take the place of ring 8 in Fig. 1. Likewise, instead of having the center construction shown in Fig. 1, the cushion may be provided with a member 20 to fit over the center

pin, in which case the ordinary center pin would have to be replaced by one sufficiently high not only to pass through the support but also pass through the record projecting therefrom, (see Fig. 3).

Another modification is shown in Fig. 4 where, instead of using a stretched sheet of fabric with deadening cushions, I may stretch a rubber cushion 32 on an auxiliary supporting disk 34, said disk having an upturned periphery 36 over which projects an annular flange 38 formed on the under side of the rubber cushion 32. In this case, as well as the others, there is no air space between the playing part of the record and the rubber cushion.

By the use of the constructions shown, I am enabled to provide a cushioning support for talking machine records which not only eliminates to a considerable extent the scratch of the needle, but at the same time changes the tone and benefits the reproduction of the music from the record. The cushioning support provides a yielding bed on which the disk record rests during playing which not only is not rigid, but which will permit the record to "give" more or less freely.

I do not limit my invention to the preferred embodiments described, but would refer to the appended claims to indicate the scope of the invention.

What I claim as my invention is:

1. As a new article of manufacture, a support for talking machine records comprising a member adapted to rest upon the turn table of a talking machine and having a record support suspended across the same and forming a cushioning rest for the record.
2. As a new article of manufacture, a support for talking machine records comprising a device adapted to revolve around the axis of a talking machine, and a member suspended across said device and forming a cushioning rest for the record.
3. As a new article of manufacture, a support for talking machine records comprising a device adapted to rest upon an ordinary turn-table of a talking machine, and a member suspended across said device thus forming a cushioning rest for the record.
4. As a new article of manufacture, a support for talking machine records comprising a member adapted to be suspended across a revolving part of a talking machine to form

a cushioning rest for the record and having a downwardly projecting flange at its periphery and a steadying pin at its center.

5. As a new article of manufacture, a support for talking machine records comprising a member adapted to be suspended across a revolving part of a talking machine to form a cushioning rest for the record and having a downwardly projecting flange at its periphery.

6. As a new article of manufacture, a support for talking machine records comprising a device adapted to rest upon the turn table of a talking machine, and a member stretched across said device and forming a cushioning rest for the record, said member having a thickened portion to support the part of the disk in which the record is formed.

7. As a new article of manufacture, a support for talking machine records comprising a device adapted to rest upon the turn table of a talking machine and a member composed of sponge rubber suspended across said device and forming a cushioning rest for the record.

8. As a new article of manufacture, a support for talking machine records comprising a device adapted to revolve around the axis of a talking machine and a member composed of rubber suspended across said device and forming a cushioning rest for the record, said member having a thickened portion of sponge rubber to support that part of the record in which the record is formed.

9. As a new article of manufacture, a support for talking machine records comprising a member formed of sponge rubber adapted to be suspended across the revolving part of a talking machine and forming a cushioning rest for the record.

10. As a new article of manufacture, a support for talking machine records comprising a member formed of sponge rubber adapted to be suspended across a revolving part of a talking machine and forming a cushioning rest for the record, and having a thickened portion to support that part of the disk in which the record is formed.

In testimony whereof I affix my signature in presence of two witnesses.

LOUIS K. SCOTFORD.

Witnesses:

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