Sept. 25, 1923. 1,468,879

V. H. EMERSON

PROTECTOR FOR PHONOGRAPH RECORDS

Filed Oct. 20, 1920

Fig. 1.

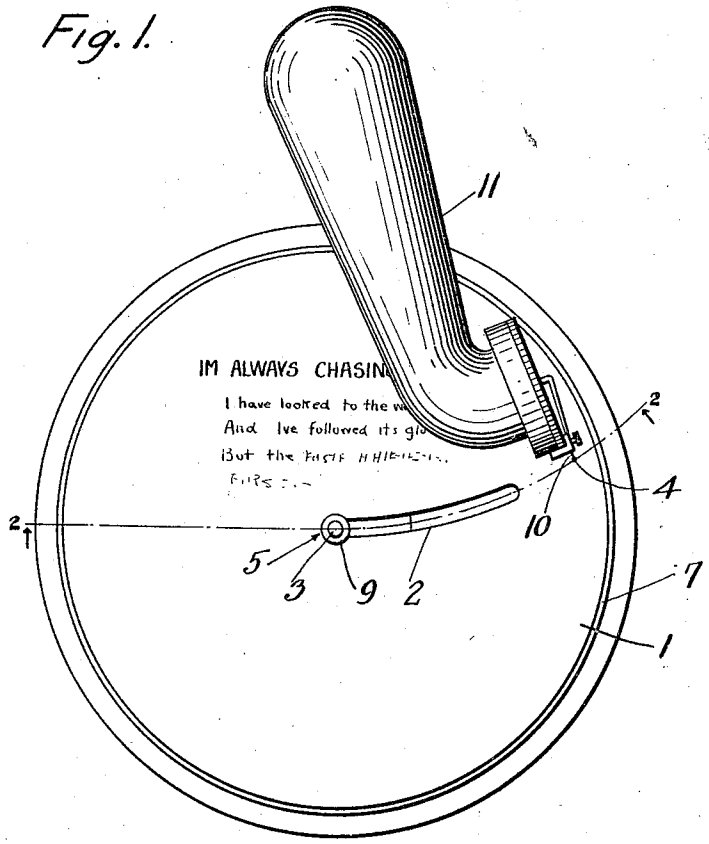
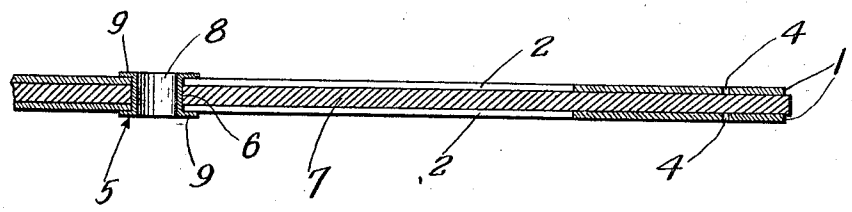


Fig. 2.



Inventor
VICTOR H. EMERSON

By his Attorney
W. Jay Emerson

Patented Sept. 25, 1923. 1,468,879

UNITED STATES PATENT OFFICE.

VICTOR H. EMERSON, OF NEW YORK, N. Y.

PROTECTOR FOR PHONOGRAPH RECORDS.

Application filed October 20, 1920. Serial No. 418,247.

To all whom it may concern:

Be it known that I, VICTOR H. EMERSON, a citizen of the United States, residing in the city, county, and State of New York, have invented new and useful Improvements in Protectors for Phonograph Records, of which the following is a specification.

This invention relates to cover devices for disk records, of the type employed with the record while the latter is being played. It is in the nature of an improvement on or modification of the device disclosed in my copending application Ser. No. 418246 filed October 20, 1920. In that application I have illustrated and described a device in which a disk record is provided with a cover sheet or device having an aperture therein through which the spindle of the talking machine passes when the record and cover device are in position for playing. A radially extending slot in the device allows the reproducing needle to pass through and engage with the record, and the rotation of the device with the record is prevented by the engagement of a wall or edge of the slot with the reproducing apparatus, preferably with the needle. The cover device may carry matter relating to or explanatory of the subject matter of the record, such as the words and music of a song, illustrative scenes, a translation of the recordation, or any other useful or supplemental information relating to the record. An objection to this device is that the long slot through which the needle passes exposes the grooved portion of the record to injury at that point and allows dust to enter the grooves in that portion of the record.

An object of the present invention is generally to improve the device disclosed in my prior application, and to provide a device of that kind which will more completely protect the record against dust and injury. A further object is to provide a device for this purpose which is simple and durable in construction and operation, and inexpensive to manufacture. Other objects and advantages will be apparent from the following description and the novel features of my invention will be particularly pointed out in claim.

In carrying out my invention I may provide the cover device with an elongated slot of a width corresponding to the diameter of the spindle and extending radially from the usual aperture provided for the spindle. A very small aperture is also provided adjacent the outer grooves of the record for the passage of the reproducing needle. The slot exposes only the inner portion of the record which has no record grooves therein so that there is no danger of injury to the grooves by dust or direct contact, and the small aperture for the passage of the needle is so small that practically no dust will enter into the grooves through it, and only an extremely small portion of the record is exposed to direct injury. During the playing, the engagement of the needle with the walls of the small aperture will shift the device bodily across the record and transversely of the spindle as the needle is propelled radially of the record by the record grooves.

In the accompanying drawings,

Figure 1 is a plan of a portion of a talking machine with a cover device for the record constructed in accordance with my invention; and

Fig. 2 is a section in elevation of the record and cover device taken substantially along the line *a*—*a* of Fig. 2.

In the illustrated embodiment I provide a cover device comprising a single element 1 of the shape and size of the record with which it is to be used. The element 1 is provided with an elongated slot 2 which extends radially from the usual opening for the spindle 3 of the talking machine record support. The slot is of a length substantially equal to the radial distance embraced by the recorded area of the record. The element 1 is also provided with a very small aperture 4 disposed in alignment with the major axis of the slot 2. The element 1 may rest upon the face of a record and be held in position upon the record by the spindle, or the element may be secured permanently and rotatably to the record by means of an eyelet 5 which passes through the usual spindle aperture 6 of the record disk 7 and the slot 2, the eyelet having an aperture 8 through which the spindle 3 passes to secure the record and element upon the turntable. The element and record are held against separation on the eyelet by the flanges 9 at the ends of the eyelet, which overlap the element and record. When double faced records are employed both cover elements

may be secured to the record by a single eyelet as illustrated in Fig. 2. The needle 10 of the reproducing apparatus 11 passes through the small aperture 4 to engage with the record grooves.

In use the record and element are placed upon the turntable with the spindle passing through the central aperture of the eyelet. The element 1 is shifted to place the spindle at one end of the slot and the aperture 4 adjacent the beginning of a record groove. The element is then slowly isolated until the needle of the reproducing apparatus can be inserted through the aperture 4 and into contact with the record, whereupon the turntable can be started and the reproduction accomplished. The engagement of the walls of the aperture 4 with the needle will hold the element against rotation with the record and will also shift the element transversely of the spindle as permitted by the elongated slot so as progressively to uncover the record groove with the aperture 4 and permit tracking of the needle over the entire recorded area. The surface of the element may and preferably does carry suitable matter related to the subject matter of the record, and it may be in the nature of pictures, words, music, a story, a translation of the record, or any other useful or desired characters, all of which I will generically designate a representation. The element does not rotate with the record so that the representation will be visible to the operator for inspection or reference during the entire playing of the record. The arrangement of the elongated slot brings it over the central portion of the record which has no sound grooves, and the record grooves will therefore be protected from injury and dust. The aperture 4 is so small that it will not materially expose the record grooves to dust or injury. While I have shown the element 1 for convenience and simplification as a single element, it is to be understood that it may be a complex element and of several layers as described in my copending application above referred to.

It will be also obvious that various other changes in the details herein described and illustrated may be made by those skilled in the art within the principle and scope of my invention.

I claim:

A device adapted for use with a disk record and a talking machine having a rotating record support with spindle and a reproducing apparatus, said device comprising a flat element provided with a slot through which the spindle passes and by means of which the element can slide over the record surface transversely of the spindle, said element having also a very small aperture arranged substantially in line with the major axis of the slot through which the reproducing apparatus may engage the record, and by its engagement with the walls of the aperture shift the device as permitted by the slot and hold it against rotation with the record.

In testimony whereof I have hereunto set my hand.

VICTOR H. EMERSON.