

H. W. MEYER.
DISK RECORD.
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1,372,822.

Patented Mar. 29, 1921.

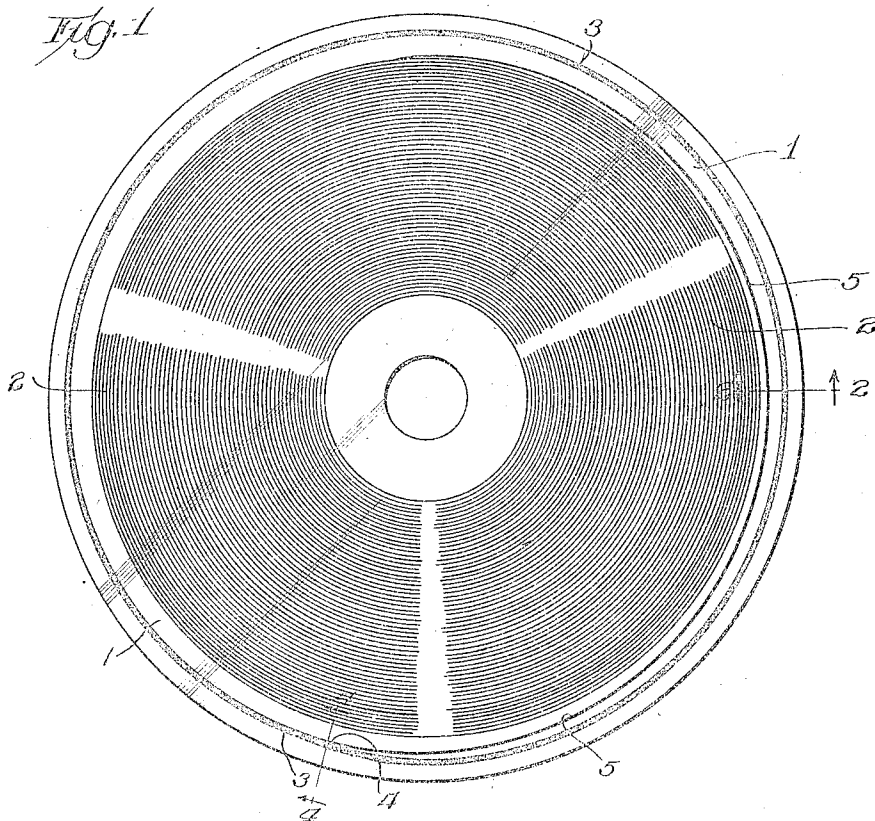


Fig. 2

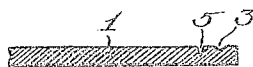


Fig. 3

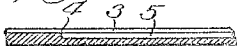
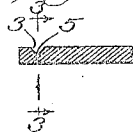


Fig. 4



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DISK RECORD.

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To all whom it may concern:

Be it known that I, HERBERT W. MEYER, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Disk Records, of which the following is a full, clear, and exact description.

My invention relates to improvements in disk records for phonographs, and it consists in the combinations, constructions and arrangements herein described and claimed.

In the use of disk phonograph records, trouble is often experienced in locating the beginning of the recording groove. This is especially true where phonographs are located away from good light, as, for instance, in an apartment building, some distance from the only window in the room. Many times the needle is placed on the record considerably within the outer groove, and thus part of the selection is eliminated. On the other hand, it frequently happens that the needle is placed on the very edge of the disk, and is caused to drop off from the edge.

An object of my invention is to eliminate the objections mentioned above by providing a locating or guide groove which can be readily seen and which is of such size that the needle can be readily placed therein.

A further object of my invention is to provide a guide groove having an auxiliary groove leading therefrom to the record grooves, so that the needle, having been located in the guide groove, will find its way automatically to the record grooves.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings, forming part of this application, in which—

Figure 1 is a plan view of the disk,

Fig. 2 is a section along the line 2—2 of Fig. 1,

Fig. 3 is a section along the line 3—3 of Fig. 4, and

Fig. 4 is a section along the line 4—4 of Fig. 1.

In carrying out my invention, I make use of the ordinary form of disk, such as that shown at 1. This is provided with the usual set of grooves 2 which reproduce the selection impressed thereon. Toward the outer edge of the disk 1 I provide a groove 3 which

is of much greater width and depth than the ordinary grooves formed in the recording of the selection. In Fig. 2 I have shown a section of this groove. The groove is colored with a distinctive color, so as to make it visible, even in a darkened room. The groove may be white, or of some color to distinguish it readily from the black record. The guide groove 3 is circular, but at the point 4 I provide an auxiliary groove 5 which bears inwardly and leads to the recording grooves 2. This auxiliary groove, at its junction with the guide groove 3, is deeper than the guide groove, as shown in Fig. 3, so that the needle will drop into the auxiliary groove and be moved by it onto the recording grooves, the auxiliary groove 3 gradually becoming shallower as it approaches the recording grooves 2.

As will be seen from Fig. 2, the bottom of the guide groove 3 is rounded, while that of the auxiliary groove 5 is V-shaped, thereby insuring the movement of the needle from the guide groove to the V-shaped groove.

It will be understood that the depths and widths of the guide groove 3 and the auxiliary groove 5 are not drawn to a scale in the drawings, the dimensions being purposely exaggerated for the purpose of illustration.

I claim:

1. A disk record having an outer circular guide groove, record grooves and an auxiliary groove connecting said guide groove with the record grooves.

2. A disk record having an outer circular guide groove of a color contrasting with that of the record, record grooves and having an auxiliary guide groove leading from said guide groove to the record grooves.

3. A disk record having record grooves, an outer circular guide groove, said guide groove being relatively wide, and an auxiliary groove leading from said guide groove and being connected with said record grooves.

4. A disk record having a circular guide groove, record grooves, and an auxiliary groove leading from said guide groove and being connected with said record grooves, said auxiliary groove being deeper than the guide groove at the point where it joins the guide groove and gradually becoming shallower from the guide groove to the record grooves.

HERBERT W. MEYER.