

April 10, 1928.

1,665,759

A. J. VASSELLI

PHONOGRAPH RECORD AND METHOD OF MAKING THE SAME

Filed April 22, 1926

Fig. 1

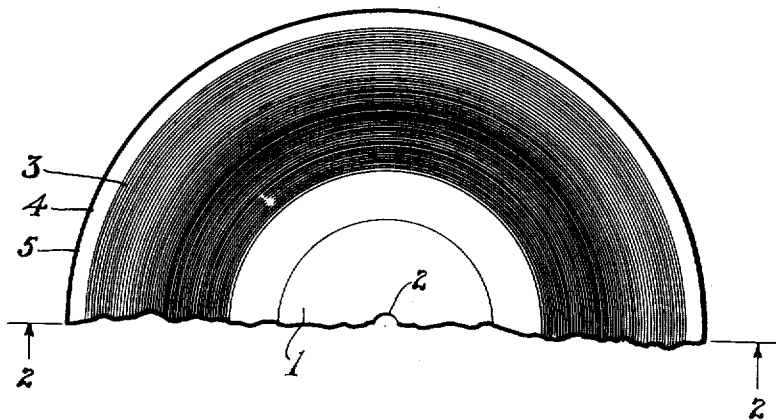


Fig. 2



Fig. 3

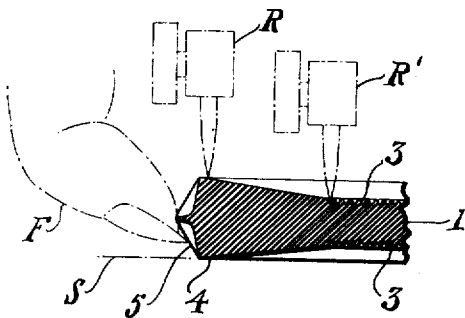


Fig. 5

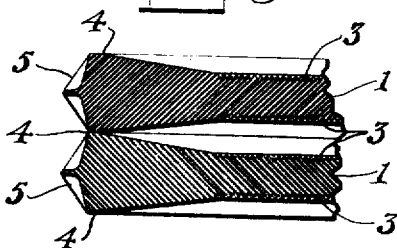
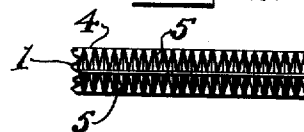


Fig. 4.



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UNITED STATES PATENT OFFICE.

ANTHONY J. VASSELLI, OF NEWARK, NEW JERSEY, ASSIGNOR, BY MESNE ASSIGNMENTS, TO COLUMBIA PHONOGRAPH COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF NEW YORK.

PHONOGRAPH RECORD AND METHOD OF MAKING THE SAME.

Application filed April 22, 1926. Serial No. 103,758.

My invention relates to improvements in phonograph records of the disk type and has for one of its objects a raised outer rim which has a commercial advantage in that the needle, if placed upon the smooth surface of the rim when starting to play the record, will automatically run down said smooth surface and enter the record groove.

Another object of my invention is to provide a disk type phonograph record with a raised outer rim which will prevent the threads of the spiral record groove from becoming marred when they are placed upon one another.

Another object of my invention is to provide a knurled edge upon the outer periphery of the record which affords a firmer grip when removing the record from the phonograph turn table or when taking it out of the record compartment of the phonograph cabinet.

During the process of manufacturing my improved disk record, the fin, which is ordinarily present on records when taken from the presses has been replaced by the knurled edge. This elimination of the fin results in economies of manufacture because the edging process required to remove it results in breakage and marring of records, and also permits the records to be moved directly from the presses to the inspection department. The absence of the fin also makes it possible to accurately determine the weight of the record so that the correct amount of material required to form it can be injected into the dies, eliminating the possibility of producing underweight records which are easily broken in transit or handling, or the production of overweight records which represent a loss in material.

With these and other objects in view, to be more fully set forth hereinafter, the invention consists in the novel construction, combination of elements and arrangement of parts which will be exemplified in the construction herein described in the following specification and illustrated in the accompanying drawings.

The invention will first be described in connection with the accompanying drawings, wherein similar reference characters are used to designate corresponding parts throughout the several views, and more specifically de-

finer and indicated in the appended claims.

Attention is directed to the drawings in which:—

Fig. 1 is a partial plan view of my improved disk record;

Fig. 2 is a sectional view of same looking in the direction of the arrows 2—2;

Fig. 3 is an enlarged partial sectional view illustrating the raised rim and knurled edge;

Fig. 4 is an enlarged view illustrating a portion of the knurled edge; and

Fig. 5 is an enlarged partial sectional view illustrating how the record grooves are prevented from becoming marred when placed upon one another.

Referring to the drawings, numeral 1 represents the record, 2 the usual hole in the center of the record for centering it upon the turn-table of the phonograph, and 3 the usual spiral record groove. The edge or rim 4 is of greater thickness than that portion of the record into which the record groove is pressed; its smooth surfaces or faces, starting at the beginning of the record groove, diverging outward at a slight angle to the periphery as illustrated in Figs. 2, 3 and 6. A reproducer partially represented by dot and dash lines, when placed upon the highest point of the rim as illustrated at R, will take the position illustrated R' when the record starts to revolve. This inward swing causes the needle to enter the groove immediately, thereby eliminating the usual numerous attempts to find the groove, and making it possible to start playing my improved record in total darkness. The rim 4 also protects the record groove from becoming marred. This is due to the thickness of the rim which prevents the record grooves from coming into contact with each other or with a table top when placed upon it as illustrated in Fig. 6. The knurled edge 5 of the rim 4 affords several advantages which are as follows: First, it can be easily picked up when lying upon a flat surface, the particular formation of the knurling allowing the finger F of the operator to get a firmer grip as illustrated in Fig. 3. The second advantage of the knurled edge is that it eliminates the usual fin which forms upon the record when it is molded, the excess material being taken up in the knurling.

In accordance with the provisions of the

patent statute, I have described my invention, but I desire it understood that my invention is not confined to the particular form shown and described, the same being merely illustrative, and that the invention can be carried out in other ways without departing from the spirit of my invention, and therefore, I claim broadly the right to employ all equivalent instrumentalities coming within the scope of the appended claims, and by means of which, objects of my invention are attained, and new results accomplished; as it is obvious that the particular embodiments herein shown and described are only some of many that can be employed to attain these objects and accomplish these results.

What I claim and desire to obtain by Letters Patent is:—

- 20 1. A phonograph record of the character described having an enlarged rim with a knurled transverse edge.
2. A phonograph record of the character described having a rim of greater thickness than that portion of said record into which the record groove is pressed said rim having a knurled transverse edge.
3. A phonograph record of the character described having an enlarged rim with a knurled transverse edge, the faces of said rim starting at the beginning of the record groove.
4. A phonograph record of the character

described having a rim with a knurled transverse edge and of greater thickness than that portion of the record into which the record groove is pressed, the faces of said rim starting at the beginning of the record groove.

5. The method of making a disk sound record consisting in knurling the edge of the record during the operation of forming a sound groove in the record body.

6. The method of making a disk sound record consisting in knurling the transverse edge of the record.

7. The method of making a disk sound record consisting in knurling the transverse edge of the record during the operation of forming a sound groove in the record.

8. As a new article of manufacture, a disk sound record having its transverse edge knurled.

9. A step in the manufacture of making a disk sound record consisting in pressing a design into the edge of the record body.

10. The method of finishing the edge of a disk sound record consisting in molding a design in said edge.

11. As a new article of manufacture, a disk sound record having a design formed in its transverse peripheral edge.

This specification signed this 14th day of April, 1926.

ANTHONY J. VASELLI.

CERTIFICATE OF CORRECTION.

Patent No. 1,665,759.

Granted April 10, 1928, to

ANTHONY J. VASELLI.

It is hereby certified that the assignee in the above numbered patent was erroneously described and specified as Columbia Phonograph Company, whereas said assignee should have been described and specified as Columbia Phonograph Company, Inc., of Bridgeport, Conn., a Corporation of New York, as shown by the records of assignments in this office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 1st day of May, A. D. 1928.

(Seal)

M. J. Moore,
Acting Commissioner of Patents.

patent statute, I have described my invention, but I desire it understood that my invention is not confined to the particular form shown and described, the same being merely illustrative, and that the invention can be carried out in other ways without departing from the spirit of my invention, and therefore, I claim broadly the right to employ all equivalent instrumentalities coming within the scope of the appended claims, and by means of which, objects of my invention are attained, and new results accomplished; as it is obvious that the particular embodiments herein shown and described are only some of many that can be employed to attain these objects and accomplish these results.

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2. A phonograph record of the character described having a rim of greater thickness than that portion of said record into which the record groove is pressed said rim having a knurled transverse edge.
3. A phonograph record of the character described having an enlarged rim with a knurled transverse edge, the faces of said rim starting at the beginning of the record groove.
4. A phonograph record of the character

described having a rim with a knurled transverse edge and of greater thickness than that portion of the record into which the record groove is pressed, the faces of said rim starting at the beginning of the record groove.

5. The method of making a disk sound record consisting in knurling the edge of the record during the operation of forming a sound groove in the record body.

6. The method of making a disk sound record consisting in knurling the transverse edge of the record.

7. The method of making a disk sound record consisting in knurling the transverse edge of the record during the operation of forming a sound groove in the record.

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