June 27, 1933. A. M. ACHESON 1,915,348

PHONOGRAPH RECORD WITH PIN HOLDER

Filed Dec. 9, 1930

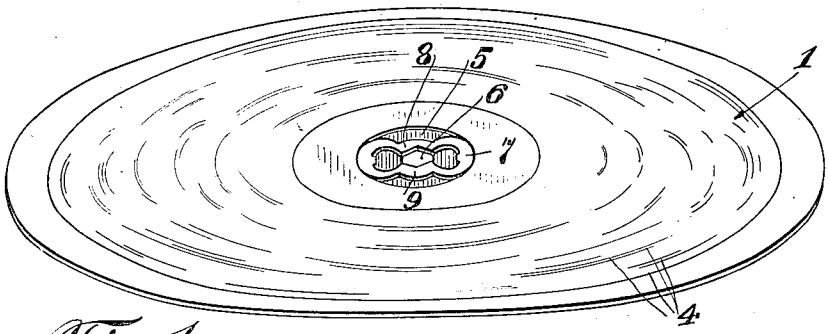


Fig. 1.

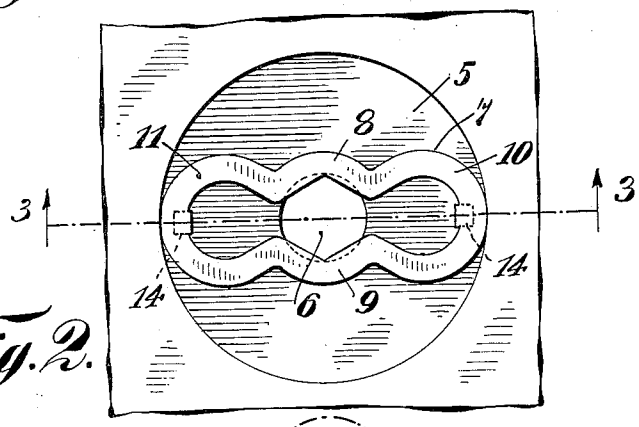


Fig. 2.

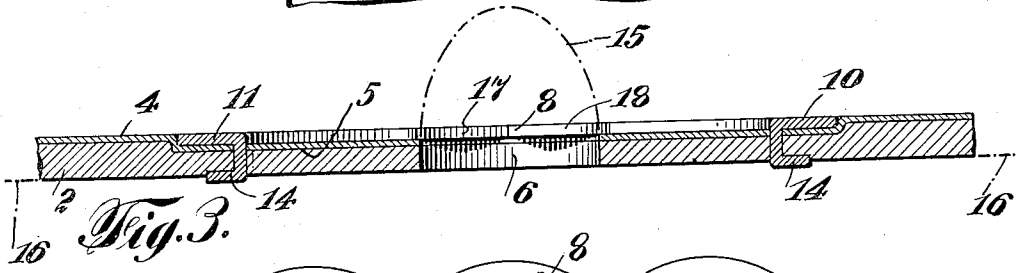


Fig. 3.

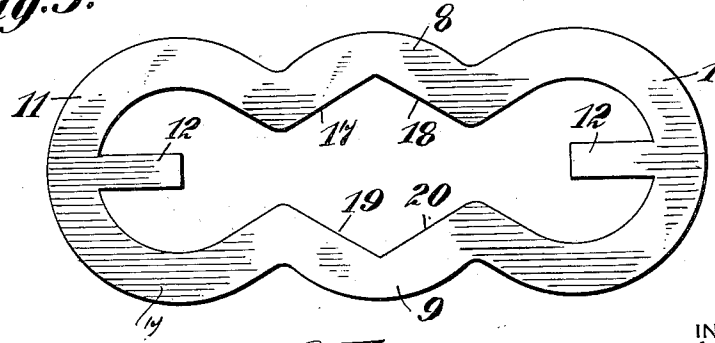


Fig. 4.

INVENTOR
Arthur M. Acheson
BY
Ramsey & Kent
his ATTORNEYS

Patented June 27, 1933

1,915,348

UNITED STATES PATENT OFFICE

ARTHUR M. ACHESON, OF DOBBS FERRY, NEW YORK, ASSIGNOR TO DURIUM PRODUCTS CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE

PHONOGRAPH RECORD WITH PIN HOLDER

Application filed December 9, 1930. Serial No. 500,986.

The present invention relates broadly to phonograph records and more especially to a phonograph record provided with a member adapted to engage the pin on a phonograph record table to hold the record in place on the table while the record is in use.

The present invention is more especially adapted to flexible phonograph records and is particularly useful with the type of record having a paper body and a hard record groove surface thereon. Such records are flexible and in use there is a tendency of the pin opening in the record to wear due to the records being placed on and taken from the turn table centering pin. After continued use, this pin opening may wear to such an extent as to permit the record to rise from the pin during playing, long before the record grooves are worn out.

The present invention in the preferred form comprises a flat thin resilient member preferably of sheet metal which has spring arms which engage the record table pin when the record is in use.

In the specific embodiment of the present invention, a member having spring sides adapted to engage the record table pin on diametrically opposite sides is adapted to be set in a depression formed in the center of the record so that the thickness of the record is not appreciably increased by the application of the pin engaging member.

Other and further objects of the present invention will in part be obvious and will in part be pointed out hereinafter in the specification following.

It is to be understood that the present invention may be practiced by slight variations from the disclosure herewith and, therefore, the disclosure is to be understood as illustrative and not in the limiting sense.

Fig. 1 is a perspective view of a phonograph record in accordance with the present invention.

Fig. 2 is an enlarged plan view of a central portion of a phonograph record in accordance with the present invention.

Fig. 3 is an enlarged sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is an enlarged view of the central member during one step of its manufacture.

Referring now to the drawing, the phonograph record 1 in the preferred form of the invention comprises a body portion 2 preferably of paper stock coated with a record groove surface material 4, the central portion of which preferably is depressed to form a recess 5 in the center of which is located the pin opening 6. A member 7 comprising spring side arms 8 and 9 secured to yielding end pieces 10 and 11 is provided with lugs 12 adapted to pass through openings in the record 1 and to terminate in clinched ends 14 which are slightly embedded in the paper body 2.

It will be observed from Fig. 4 that the lugs 12 are stamped from the inner side of the member 7 so that these lugs are formed without substantial loss of useful material. Preferably, although not necessarily, this member 7 is formed of resilient metal, brass, steel, etc., although other resilient sheet substances, for example, celluloid may also be used. Where celluloid or the like is used, the lugs 12 may be dispensed with and the member may be cemented at its ends 10 and 11 to the body of the record, leaving the side members 8 and 9 free to yield when the record with the center member thereon is forced over the record table pin 15 carried by the record table 16.

By referring to Fig. 3, it will be observed that the member 7 being of relatively thin sheet material sets in the recess 5 and that the clinched ends 14 are embedded in the body of the record so that this member does not substantially increase the thickness of the record at the center thereof. This construction, therefore, does not interfere with stacking the records or in packaging the same.

From Fig. 3, it will be observed that the side face portions 17 and 18 of the arm 8 and 19 and 20 of the arm 9 slightly overlap or overlie the pin opening 6, so that when the record is placed on the turn table and the center forced over the pin 15, the side members 8 and 9 yield outwardly and the faces 17 and 18 grasp the side of the pin 15 diametrically opposite to the faces 19 and 20. This effectually holds the record in place during the playing thereof.

It will be noted the preferred form of the invention is an outline of a pair of opposed horse-shoes which gives substantial resilience to the side arms 8 and 9, and permits the arms to elongate or stretch relative to the anchoring lugs when the arms are pressed outwardly by the record table pin.

Having described my invention, I claim:

1. A phonograph record of the flexible disc type comprising a flexible body portion having a pin opening in the center thereof, in combination with a pin engaging member comprising a pair of flat spring arms having portions laterally movable toward and from each other, the opposite edges of said spring arms being adapted to engage opposite sides of a record table pin extending through said opening.

2. A phonograph record of the flexible disc type comprising a flexible body portion having a pin opening in the center thereof and an annular recess in one surface encircling said opening, a flat metallic spring engaging member comprising spring arms located on diametrically opposite sides of said pin opening in said recess and movable in said recess toward and from said opening, end portions joining said spring arms, anchoring lugs extending through said record from said end portions.

3. A phonograph record of the flexible disc type having a body portion provided with a pin opening in the center thereof, in combination with a flat spring member having the outline of a pair of opposed horse-shoes with the heel members thereof joined to comprise spring arms, said member being centrally located on said record whereby the axis of said pin opening extends between said spring arms, said arms being laterally movable toward each other to yieldingly grip the pin.

4. A phonograph record of the flexible disc type, comprising a flexible body portion having a pin opening in the center and a recess in one surface encircling said opening, and a flat metallic spring member disposed in said recess and of a thickness not greater than the depth of said recess, and including spring arms upon opposite sides of said opening and laterally slidable in said recess toward said opening, and having edge portions adapted to yieldingly engage a centering pin projecting through said opening.

5. A phonograph record of the flexible disc type, including a flexible body portion having a pin opening in the center thereof and a recess in one surface adjacent to and communicating with said opening, and a flat metallic spring member of a thickness not greater than the depth of said recess and disposed in the latter, and having an edge portion normally extending over a portion of said opening and slidable laterally in its own plane in said recess.

ARTHUR M. ACHESON.