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2,501,465

REINFORCING CENTER FOR PHONOGRAPH RECORDS

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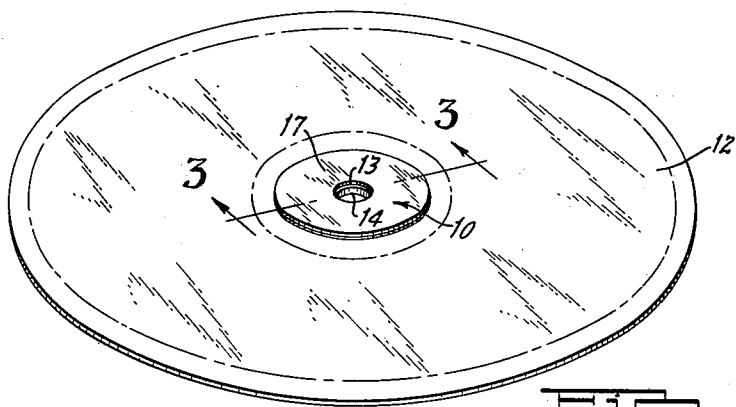


FIG. 1.

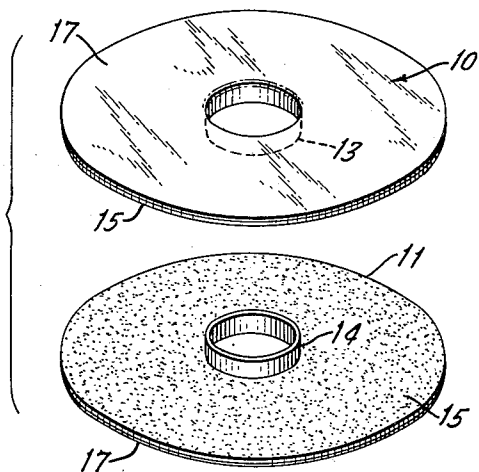


FIG. 2.

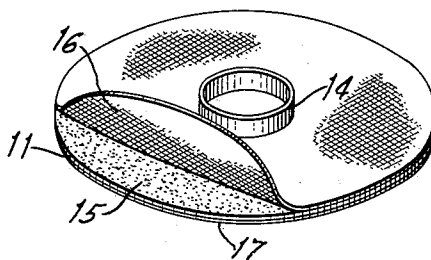


FIG. 4.

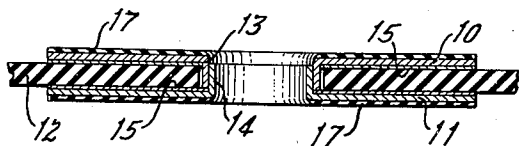


FIG. 3.

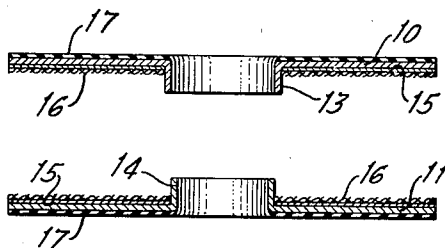


FIG. 5.

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UNITED STATES PATENT OFFICE

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REINFORCING CENTER FOR PHONOGRAPH RECORDS

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1 Claim. (Cl. 274—42)

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Generally, my improvement pertains to disc shaped records for phonographs, my specific invention being restricted to a new and useful reinforcing member to fit into the central aperture of the disc.

The purpose of my invention is to provide means to prevent enlargement of said central aperture of the record. Since the substance of which records are made in quite soft, said central aperture becomes by reason of wear very often enlarged or misshaped to such a degree that said aperture is off-center. This may seriously impair the operation of the automatic means employed for changing records on a phonograph and may also seriously affect musical rendition of said records.

While a number of devices have already been provided for the purpose of reinforcing the central portion of a record, it appears that in some cases these devices cannot be applied to the record without the use of tools, and that in other cases a record has to be perforated in order to retain the reinforcing member in place.

In view of the acknowledged need of such a reinforcing device and in view of latent need for a device which could be applied quickly and easily without tools and without damaging the record by perforation or other manner of anchoring such a device thereto, I have produced my center piece which I believe to be superior in many respects.

I shall now describe my device with reference to accompanying drawings in which:

Fig. 1 is a perspective view of a phonograph record with my center piece in place;

Fig. 2 is an enlarged, exploded view of my center piece;

Fig. 3 is an enlarged view on line 3—3 of Fig. 1;

Fig. 4 is a perspective view of an element of my center piece with a protective textile cover or shield thereon;

Fig. 5 is a sectional view of two component parts of my center piece in their disjoined relation.

Similar numerals refer to similar parts throughout the several views.

My device consists of two circular sheet metal plates or discs 10 and 11, respectively. The plates are to be clamped from opposite sides over the center portion of a phonograph record which is indicated by numeral 12. Each plate has a central circular aperture flanged by an integrally formed annular member which in disc 10 will be called ring 13, and in plate 11, will be called a collar 14. The collar is of a diameter to fit

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telescopically into said ring 13, being adapted to be retained therein by friction.

On what is the inner surface of each plate, that is the surface adapted to abut the surface of the record, each plate is coated with a layer of a suitable adhesive substance 15, this being indicated by grain simulating marks in Fig. 2 and by hatching in Fig. 3. As a means of protecting the layer of the adhesive substance from drying up and losing its adhesive property by exposure to air, the layer is covered by a removable textile shield 16.

The outer surface of each plate, namely that surface which is to come in contact with the surface of the turn-table of a phonograph, is provided with a layer of a suitable non-slip substance 17, such as rubber, to secure the record against slipping during the rotation of the turn-table of the phonograph.

The manner of use of my device is quite obvious. As indicated above, my device consists of two paired plates. Prior to use, each pair of said plates may be held together by means of said annular flanges, that is by having the collar on one disc held frictionally within the ring of the other. When about to be applied to the record the plates are taken apart, the textile cover is removed from each, whereupon one plate is applied over the central portion of the record so that said ring fits into the central aperture. Pressure is then applied to the outer surface of the plate manually, to cause it to stick by means of said adhesive substance to the respective surface of the record. The other plate is similarly applied from the opposite side, the collar 14, telescoping into said ring 13, and being frictionally held therein. Thus, the two plates may be applied to the record quickly, easily, and without the use of any tools, and without danger of damaging the record.

Having described my improvement, what I wish to claim is as follows:

A reinforcing device for a disc-shaped phonograph record having a central aperture therein, to fit over a spindle on the turn-table of the phonograph, the device including a circular plate for application to the record from one side, said plate having an open center and an annular flange thereabout to fit frictionally into the aperture of the record and a similar plate to be applied to the record from the opposite side and having a collar for a telescopic frictional fit into said flange, each plate having a layer of adhesive substance on the side abutting the record, and a layer of non-slip substance on the other

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side to prevent slipping of the record on the turn-
table.

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file of this patent:

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