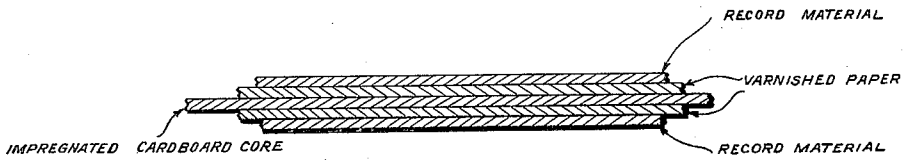
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LIGHT WEIGHT SOUND RECORD

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LIGHT WEIGHT SOUND RECORD

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4 Claims. (Cl. 154—43)

The present invention relates to disc sound records which are light in weight and may be flexible, and in particular to records of the type in which there is attached to an impregnated and waterproofed cardboard core, and on each side thereof, a disc of varnished paper carrying the surface on which the record is to be impressed. This surface may consist of ordinary record material or have as its base a synthetic resin.

According to the present invention, a record is made in the following manner: A cardboard core is impregnated with a composition consisting of paraffin wax, or metal stearates, or bituminous material, which flows under heat or pressure and thus soaks into the fibres and seals them. The heat and pressure may be applied to the core to force the waterproofing material into it either before or after the paper disc carrying the record surface is applied.

The invention is illustrated diagrammatically in the accompanying drawing showing an enlarged sectional view of a portion of a record blank.

A paper disc is coated on one or both sides with a varnish which will join the paper to the core. This varnish may consist of tri-nitrocellulose and rosin or of a thin paint made by mixing ordinary shellac base record material with a solvent such as alcohol. The impregnated core and varnished paper should have a co-efficient of expansion similar to that of the material applied to the paper to form the surface of the record. Otherwise, the surface will develop an unevenness which spoils the appearance of the record and increases the surface noise. There is then applied to one side of each of the paper discs, preferably while the varnish is still wet, record material in powdered form. For each side of a 10" record, from 1 to 1.25 ozs. of record material is found generally to be sufficient. The powder may consist of the ordinary record material with a shellac base. The discs are dried and then applied to each side of the cardboard core and the whole is hot pressed between the matrices of the records to be produced. The record (10") obtained weighs approximately 3 ounces, is fairly rigid and wears well.

In place of the ordinary record surface material, the urea and the thiourea resins may be used, but the resin used for the record surface should contain a certain amount of filler, as this improves the wearing qualities. For example, a mixture of 35% of the urea resin, 35% thiourea resin and 30% barytes filler has been found to give good results as surface material. The surfacing mixture may be painted onto the paper discs instead of being powdered on.

I claim:

1. A sound record blank comprising a cardboard core impregnated with a waterproofing material, a varnished paper disc attached to each side thereof, and record surface material on the outer side of each paper disc, said core and discs having substantially the same co-efficients of expansion.

2. A sound record blank comprising a cardboard core impregnated with waterproofing material, a varnished paper disc attached to each side of said core and varnished with a mixture of shellac base record material and a solvent, and record surface material including a synthectic resin on the outer side of each paper disc.

3. A sound record blank comprising a cardboard core impregnated with waterproofing material, a paper disc on each side of said core and varnished with tri-nitrocellulose and rosin, and record surface material including a urea resin on the outer side of each paper disc.

4. A sound record blank comprising a cardboard core impregnated with waterproofing material, a paper disc attached to each side of said core and varnished with a mixture of shellac base record material and a solvent, and record surface material including a urea resin on the outer side of each paper disc.

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