April 28, 1936. W. O. HERRMANN 2,038,563

GRAMOPHONE RECORD

Filed May 18, 1934

Fig. 1.

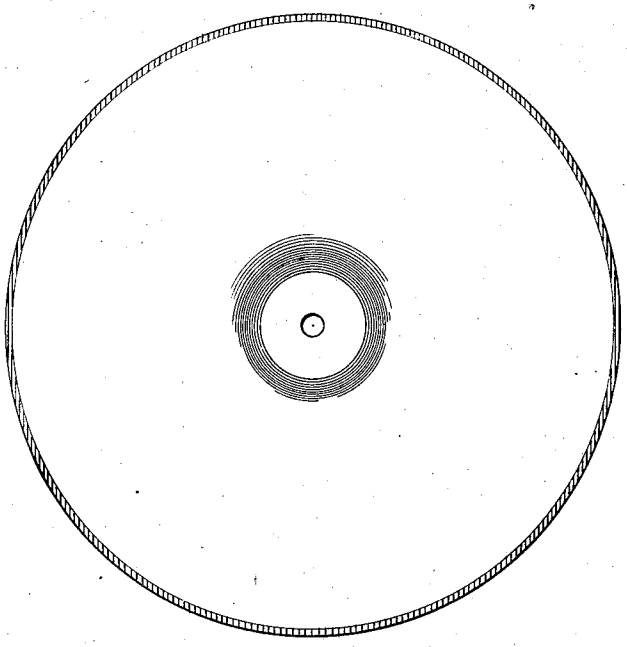
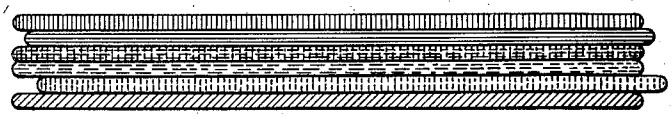


Fig. 2.



INVENTOR
WILLY O. HERRMANN
BY
ATTORNEY

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GRAMOPHONE RECORD

Willy O. Herrmann, Munich, Germany, assignor to Alfred van Raap, Amsterdam, Netherlands

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2 Claims. (Cl. 274—42)

This invention relates to improved gramophone records and their manufacture.

According to this invention gramophone records are provided with a colored edge. For a certain musical category or for a certain composer a certain colour is chosen, for instance a red colour for waltzes, a blue colour for symphonies, a green colour for songs and so on. Of course colours other than the above may be provided for the mentioned musical category. Another use is to provide the records with musical works of Beethoven with a green coloured edge, of Schubert with a red edge, Mozart with a blue edge.

Thus the musical category wished may readily be recognized by the coloured edge.

It is necessary to provide the records with lasting coloured edges, which are of sufficient mechanical and chemical resistancy, in order to be not easily destroyed by frequent use. Therefore the carrier for the colouring substances must not only possess a sufficient sticking power but also hardness and elasticity.

The execution of the invention depends on the nature and character of the record. The execution seems simpler if using records of homogeneous material such as the usual records of shellac mass. In such case a solution of a coloring mass is employed. Such a coloring mass consists of a soluble colour or a coloured pigment and a carrier with sticking property e. g. natural or artificial resins like shellac, copal, glyptale, aldehyde resins etc. As such a carrier also hard waxes like carnauba wax may be used.

It is especially difficult to color the edges of non-homogeneous records or records built of or containing layers of paper, wood, metal, fabrics and the like in which the different laminations have different absorbabilities. In such cases the carrier must have particular properties especially sticking properties for sticking or cementing together materials of different kinds and to protect the different materials against humidity etc.

For such properties polyvinylic compounds also the combinations of polyvinylic ester and oil or wax are especially suitable because of their sticking character, their binding power for filling material and their absorbing capacity for coloring substances. The most suitably polyvinylic compounds are the esters of polyvinylalcohol especially polyvinylacetate, acrylic methylate and the like. According to the special case lower polymeric vinylic acetate is more advantageous as for the high sticking power or higher polymeric vinylic acetate as for its elasticity and mechanical resistance besides a sufficient sticking property.

The process is executed e. g. by dissolving or suspending the coloring mass in a suitable solvent.

The following specific example illustrates the invention but it is to be understood that I do not limit myself to this example. The parts given are by weight.

Example

A 50 per cent solution of lower polymerized vinyl acetate is colored by addition of methylene blue. This solution is used to color the edge of a record by painting, spraying, dipping or in any other suitable manner. In a similar manner other solutions or suspensions of dyes or pigments in polymerized vinyl compounds may be applied to give the edges of records different colors. Among others, chromium green, ultramarine and various other soluble dyestuffs may be employed.

In the accompanying drawing, Fig. 1 is a plan view of a record having its marginal edge shaded to indicate a ring of color produced according to this invention, while Fig. 2 is an end view showing a stack of records having various different colored edges.

The invention claimed is:

1. A laminated gramophone record formed of laminations having different absorbabilities, said record having a colored edge comprising a coloring material and a carrier therefor composed of a polymerized vinyl compound.

2. A laminated gramophone record formed of laminations having different absorbabilities, said record having a colored edge comprising a coloring material and a carrier therefor composed of polymerized vinyl acetate.

WILLY O. HERRMANN.