M. ELMER.

STYLUS HOLDER FOR PHONOGRAPH REPRODUCERS.

APPLICATION FILED JUNE 24, 1921.

1,397,835. Patented Nov. 22, 1921.

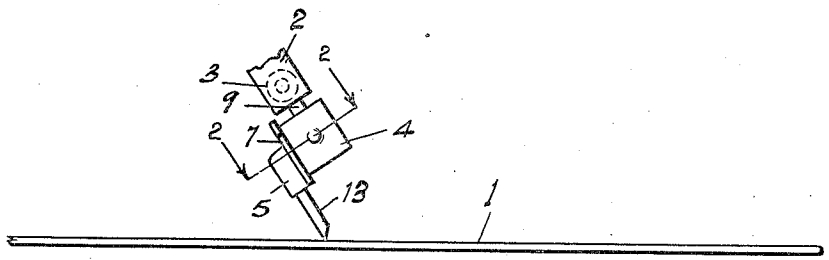


Fig. I.

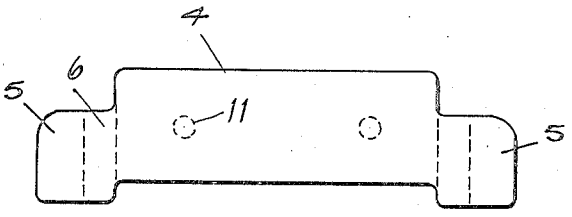


Fig. IV.

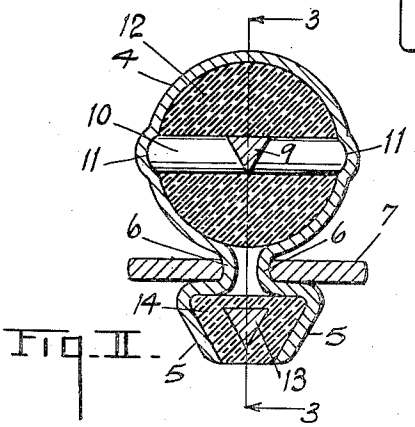


Fig. II.

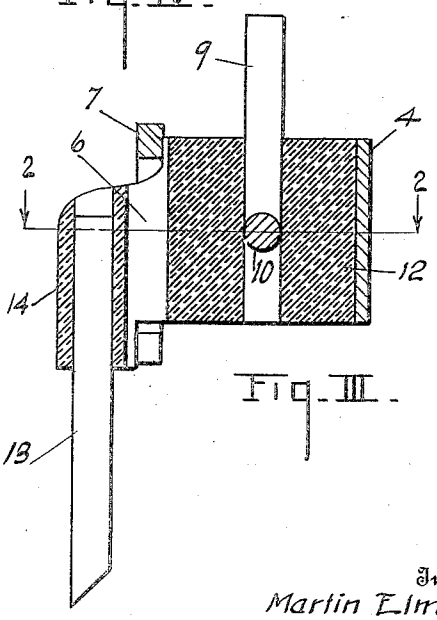


Fig. III.

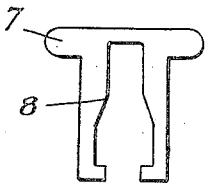


Fig. V.

Inventor
Martin Elmer
By Chappell & Earl
Attorneys

UNITED STATES PATENT OFFICE.

MARTIN ELMER, OF HASTINGS, MICHIGAN.

STYLUS-HOLDER FOR PHONOGRAPH-REPRODUCERS.

1,397,835. Specification of Letters Patent. Patented Nov. 22, 1921.

Application filed June 24, 1921. Serial No. 479,989.

To all whom it may concern:

Be it known that I, MARTIN ELMER, a citizen of the United States, residing at Hastings, county of Barry, and State of Michigan, have invented certain new and useful Improvements in Stylus-Holders for Phonograph-Reproducers, of which the following is a specification.

This invention relates to improvements in stylus holders for phonograph reproducers.

The main objects of this invention are:

First, to provide an improved stylus holder which eliminates the scratching noise commonly incident to phonographs.

Second, to provide a stylus holder which is adapted for use with the numerous types of phonograph sound boxes now on the market and in more or less extensive use.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this application, in which:

Figure I is a detail side elevation of a stylus holder embodying the features of my invention, the record being shown conventionally and a portion only of the sound box being shown.

Fig. II is a detail transverse section through my improved stylus holder on a line corresponding to line 2—2 of Figs. I and III, parts being shown in full lines for convenience in illustration.

Fig. III is a vertical section on a line corresponding to line 3—3 of Fig. II, parts being shown in full lines.

Fig. IV is a plan view of the blank from which the body and jaws of my holder are formed.

Fig. V is a plan view of the blank.

In the drawing similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, 1 represents a phonograph record of the disk type and 2 the needle socket or needle holder of a sound box of the usual type provided with a clamping screw 3. My improved stylus holder comprises a cylindrical body 4, jaws 5 connected to the body by the neck 6, the neck being adapted to receive the yoke-like clamp 7 having a cam slot 8 therein. The body and jaws are preferably formed as illustrated from a piece of sheet metal rolled into the body, the edges being conformed to an **S** shape providing the neck and the jaws.

The holder is provided with a shank 9 adapted to be engaged in the socket of the sound box, the shank having a cross-bar 10 in bearing engagement with the recess-like bearings 11 formed in the walls of the body 4. The shank and its cross-bar are embedded in the resilient block 12 which is clamped within the body.

The stylus 13 illustrated is of the wood or fiber type and is supported in a block 14 of resilient material, the block being clamped within the jaws 5.

The yoke clamp 8 is adapted to clamp the stylus supporting block and also the shank supporting block. By supporting the same with the cam-shaped slot and slidably mounting it upon the neck of the jaws it may be quickly adjusted to release or clamp the jaws.

A blank from which the body and jaws are formed is illustrated in Fig. IV.

My improved stylus holder is very effective in eliminating scratching and other objectionable noises, and phonographs equipped with the same produce pleasing, smooth tones.

I have illustrated and described my improvements in a form or adaptation which I find very satisfactory.

I have not attempted to illustrate or describe certain modifications or adaptations which I contemplate as I believe the disclosure made will enable adaptation as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A stylus holder comprising a body member with jaws at one side thereof spaced from the body to provide a neck adapted to receive a clamping yoke, a shank adapted to be engaged with a sound box socket, a block of resilient material embedding said shank clamped within said body, a stylus supporting block of resilient material clamped with-

in said jaws, and a clamp having a cam slot therein slidably engaged with the neck of said jaws.

2. A stylus holder comprising a body member with jaws at one side thereof, a shank adapted to be engaged with a sound box socket and provided with a cross piece having bearing engagement with the walls of said body, a block of resilient material embedding said shank and its cross piece clamped within said body, and a stylus supporting block of resilient material clamped within said jaws.

3. A stylus holder comprising a body member with jaws at one side thereof, a shank adapted to be engaged with a sound box socket, a block of resilient material embedding said shank within said body, and a stylus supporting block of resilient material clamped within said jaws.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

MARTIN ELMER. [L. S.]

Witnesses:
HERMAN W. FROST,
SWAN A. F. ANDERSON.