

Nov. 18, 1924.

1,516,193

C. O. HUNTINGTON
MIDGET AUTOMATIC RECORD BRUSH

Filed March 19, 1923

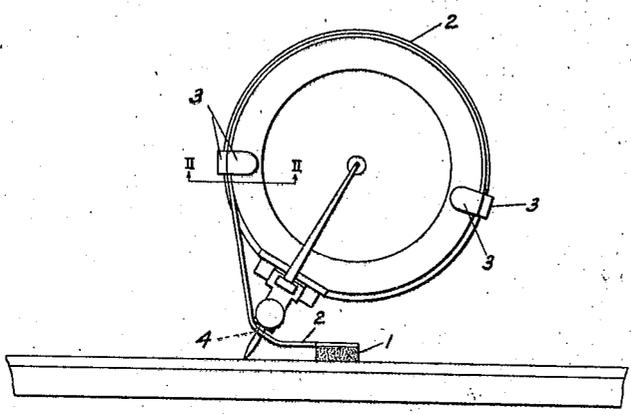


Fig. I

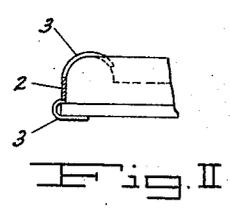


Fig. II

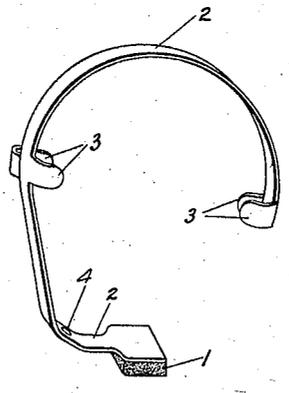


Fig. III

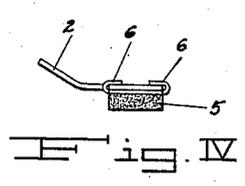


Fig. IV

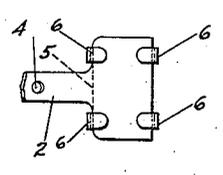


Fig. V

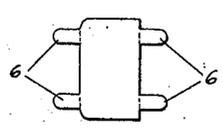


Fig. VI

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By *[Signature]*
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UNITED STATES PATENT OFFICE.

CORY OZI HUNTINGTON, OF GALVIN, WASHINGTON, ASSIGNOR OF ONE-HALF TO
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MIDGET AUTOMATIC RECORD BRUSH.

Application filed March 19, 1923. Serial No. 626,192.

To all whom it may concern:

Be it known that I, CORY OZI HUNTINGTON, a citizen of the United States, residing at Galvin, in the county of Lewis, State of Washington, have invented a new and useful Brush for Use on Phonograph Records, Designated and Named by Me as the Midget Automatic Record Brush, of which the following is a specification.

This invention has to do with improvements in brush attachments or record cleaners designed to cooperate with the reproducer of phonographs or similar machines.

The object of my invention is to provide a simple yet effective device, made of comparatively thin metal, which is adapted to slip over the sound box of a phonograph in such position as to dispose its brush member in advance of the needle, and including a shank portion constructed and arranged to cooperate with the stylus when in position, by means of which relative displacement of the attachment, once it has been mounted in operative position, is prevented.

Other objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

In the drawing:

Figure 1 is a side elevation of a sound box showing my invention in position thereupon;

Figure 2 is a fragmentary sectional view taken upon the line II—II of Figure 1;

Figure 3 is a perspective view of my attachment alone;

Figure 4 is a detail fragmentary view of the end of the shank portion showing the application of a detachable brush member;

Figure 5 is a top plan view of the portion shown in Figure 4; and

Figure 6 is a plan view of the blank or base plate upon which the brush used in the detachable form is mounted.

Referring to the drawing and specifically describing the invention, it will be observed that the holder is composed of a relatively narrow strip of thin metal the upper portion 2 of which is curved to conform to the periphery of the sound box which is embraced thereby when the attachment is placed in position. Diametrically opposite gripping flanges or fingers 3 arranged at spaced points engage the sides or lateral faces of the sound box so as to hold the attachment firmly in position thereupon with

the lower or shank portion of the attachment extending downwardly in rear of the needle and then forwardly to a point which will dispose the brush member 1 attached to the end of the shank in advance of the needle. The shank portion is provided with an aperture 4 through which the needle of the sound box is inserted in position and obviously the cooperation of the shank portion with the needle in this manner tends to hold the attachment in position against relative displacement and maintains the brush member in proper relation to the needle so as to insure its operation over the path which is followed by the needle. The brush member 1 may be of felt or other similar material and in the operation of the device there is just sufficient tension in the use of the spring metal to insure a pressure upon the record which will clean the grooves effectively so that the sound reproduced by the needle will be most clearly reproduced, the pressure being insufficient, however, to cause any retardation or drag upon the movement of the record in operation.

In Figures 4 to 6 I have illustrated a modified form in which the brush 5 includes a base plate of rectangular form having bendable tabs 6 which are bent over the headed extremity of the shank portion of the attachment as clearly shown in the said figures. This will enable at any time the replacement of the brush without removal of the attachment or without renewal of the complete attachment and it is therefore of decided advantage to make the brush member detachable as in this form.

Having thus described my invention, what I claim as new is:

1. A cleaner attachment for reproducing machines comprising a body portion having means adapted to engage the sound box of a reproducing machine and a shank portion with which the needle of the sound box is adapted to cooperate at an intermediate point, said shank portion extending in advance of the needle, and a brush member mounted on the end of the shank portion.

2. A cleaner attachment for reproducing machines comprising a body portion having gripping means to engage the sound box of a reproducing machine and a shank portion provided with an opening through which the needle of the sound box is adapted to

extend, and a brush member mounted upon the end of the shank portion.

3. A record cleaner attachment for reproducing machines comprising a strip of
5 relatively thin material adapted to embrace the periphery of the sound box of a reproducing machine having laterally projecting gripping fingers to engage said box and
10 a downwardly extending shank portion engaging the end of the needle arm and extending to a point in advance of the needle,

and a brush carried by the end of said shank portion, said shank portion having an opening through which the needle is free to extend.

In testimony that I claim the foregoing as my own, I have hereunto affixed my signature in the presence of two witnesses.

CORY OZI HUNTINGTON.

Executed in the presence of—

A. S. KRESKY,
ALVA A. COLEMAN.