S. WISNIEWSKI.

PLAYING RECORD BRUSH.

APPLICATION FILED MAR. 1, 1916.

1,200,154. Patented Oct. 3, 1916.

Fig. 1.

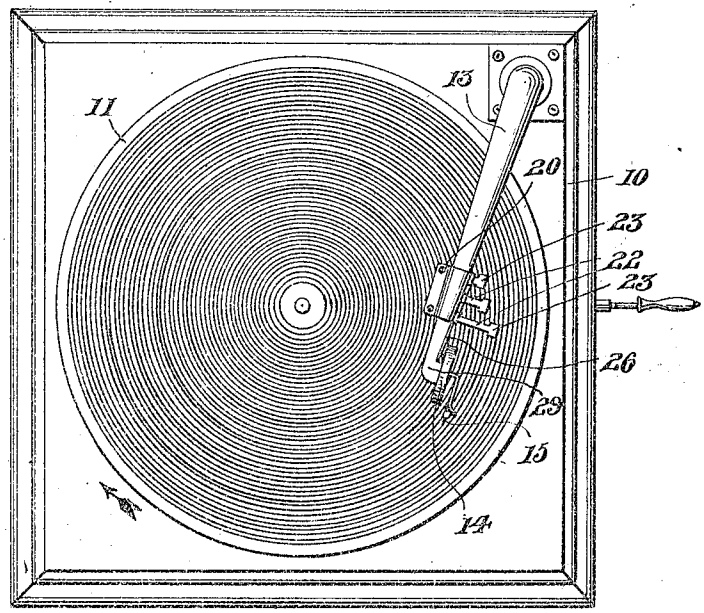


Fig. 2.

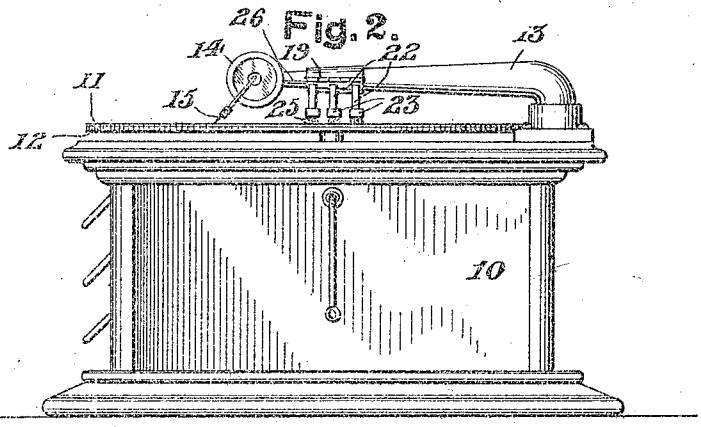


Fig. 3.

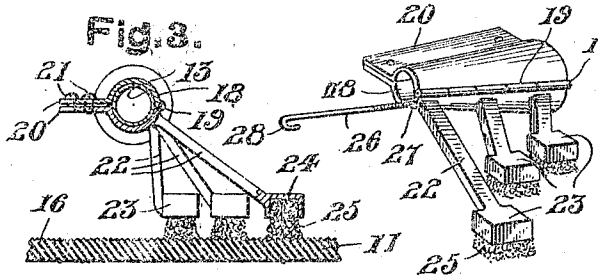


Fig. 4.

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PLAYING-RECORD BRUSH.

1,200,154. Specification of Letters Patent. Patented Oct. 3, 1916.

Application filed March 1, 1916. Serial No. 81,419.

To all whom it may concern:

Be it known that I, STANISLAW WISNIEWSKI, subject of the Emperor of Austria, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Playing-Record Brushes, of which the following is a specification.

The primary object of this invention is the provision of a cleaning member for record disks for phonographs and similar machines operable simultaneously with the playing of the instrument, whereby the record member or disk is cleaned in advance of the sound box needle during the entire path of travel of the latter.

It being understood that the record disks for playing instruments such as Victrolas are formed with needle-directing paths or grooves upon their playing surfaces, the said grooves often becoming partially filled with foreign particles tending to clog the needle and to prevent its perfect actuation in accordance with the production inscribed upon the record, a hand-brush is often employed for removing such particles from the record and the present provision arranges a plurality of brushes which will be operatively positioned upon the record for cleaning the same in advance of the needle during the playing operation.

It is also designed to provide an article of manufacture which is readily applied to such classes of instruments now in use, the invention being cheap and easy to manufacture but at the same time fully filling the objects for which it is designed.

With these general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the appended claims.

In the drawings forming a part of this application and in which like-designating characters refer to corresponding parts throughout the several views:—Figure 1 is a top plan view of a record playing instrument provided with the present device. Fig. 2 is a side elevation thereof. Fig. 3 is a detail transverse sectional view through the device and a record disk operatively positioned, and Fig. 4 is a perspective view of the invention detached.

A form of record player or Grafonola 10 is herein illustrated having a disk record 11 positioned upon the revolving table 12 thereof, the usual form of sound-conducting tapered tubular neck 13 being employed to the free end of which the sound box 14 is pivoted, the needle 15 carried by the sound box being operatively positioned lying resting upon the adjacent upper surface of the said record 11.

It will be understood that the table and record are forcibly revolved under the needle 15 in the direction indicated by the arrow in Fig. 1 and that the tracking of the said needle is from the periphery toward the center of the disk 11, the convolute paths or grooves 16 of the record 11 for receiving the needle 15 beginning adjacent the periphery of the record and terminating adjacent the center thereof.

The invention comprises an adjustable split sleeve 17 of tapered or frusto-conical form made in two similar parts 18 connected together by a hinge 19 and arranged opposite the said hinge with flanges 20 adapted for the reception of retaining screws 21.

A plurality of depending legs 22, herein illustrated as three in number, and being of different lengths, project at different relative angles from the sleeve 17 at points situated in substantially the same plane. Substantially squared feet 23 are provided at the free ends of the legs 22 having sockets 24 in their lower sides in which brushes 25 of felt or other desirable material are secured for projecting outwardly thereof.

In operation, the parts 18 of the sleeve 17 are separated and the said sleeve readily applied to the instrument neck 13, to the tapering of which neck the said sleeve may be readily adjusted and then secured by means of the screws 21. When said sleeve is so secured in place, the feet 23 are arranged in horizontal alinement and in parallelism with the table 12, the brushes 25 being then positioned to bear lightly upon the exposed playing face of the record 11 for engaging the groove 16 thereof during the operative revolutions of the record disk 11.

It will be noted that the legs 22 gradually decrease in length from the smaller end of the sleeve 17 toward the larger end thereof,

the increase in the diameter of the sleeve compensating for the decrease in the length of the carried legs 22. A positioning rod 26 is adjustably screw-threaded as at 27 in the smaller end of the sleeve 17 and is provided with a finger or stop 28 adapted to seat against the angular end portion 29 of the instrument neck 13, it being understood that the rod 26 may be adjusted, so as to project with the stop 28 at different distances from the sleeve 17 so as to engage the neck portion 29 when the sleeve is secured at the desired adjusted position upon the neck 13. By this adjustment of the rod 26, the position of the sleeve 17 upon the neck 13 may be controlled to insure the brushes 25 sweeping in advance of the stylus 15 and also trailing the same.

The sleeve 17 being operatively positioned upon the neck 13, the same may remain thereon, until it is necessary to replace the brushes 25, the feet 23 and brushes 25 being readily removed from the record 11 by laterally shifting the neck 13, the brushes 25 being readily positioned operatively upon the record 11 when the record is placed upon the table 12 and the needle 15 is swung into its playing position in the record grooves 16. The brushes 25 lightly resting upon the grooves 16, clear all the said grooves or paths of foreign matter such as the scrapings from the record caused by the action of the needle and the grooves 16 will be so brushed and cleared for a number of successive convolutions in advance of the passage of the needle 15 therethrough, while the brush 25 of the longer leg 22 follows up the needle and clears the paths 16 of any scrapings or cuttings from the record made by the said needle.

While the form of the invention herein shown and described is what is believed to be the preferred embodiment thereof, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What I claim as new is:—

1. An article of manufacture comprising a record cleaner consisting of an adjustable tapered mounting sleeve, a positioning rod adjustably projecting from the smaller end of the sleeve, a plurality of legs projecting at different angles from points upon said sleeve in substantially the same plane and decreasing in length from the smaller toward the larger end of the sleeve and brushes carried by said legs positioned to travel in concentric paths.

2. An article of manufacture comprising a record cleaner consisting of an adjustable tapered mounting sleeve, a positioning rod adjustably projecting from the smaller end of said sleeve, a plurality of legs projecting at different angles from points upon the sleeve in substantially the same plane and decreasing in length from the smaller toward the larger end of the sleeve, feet upon the free ends of said legs positioned in the same plane and adapted to travel in concentric paths and provided with sockets in their undersides and brushes positioned in the said sockets.

3. A record cleaning device adapted for attachment to a tone arm comprising a split tapered sleeve having its portions hingedly connected together and adjustably positioned upon the said arm, a rod adjustable in length projecting from the smaller inner end of the said sleeve and having a stop finger in operative engagement with the said tone arm, a plurality of feet projecting at different angles from the said sleeve at points positioned in a single plane substantially parallel to the hinged portion of the sleeve and brush-holding feet upon the said legs arranged in a single plane substantially parallel to the said record when the elements are operatively positioned, the said legs being of different lengths commensurate with the difference in diameter of the said sleeve at the different points of attachment of the said legs therewith, whereby the record is swept in advance of and in rear of the operative end of the tone arm.

In testimony whereof I affix my signature.

STANISLAW WISNIEWSKI.