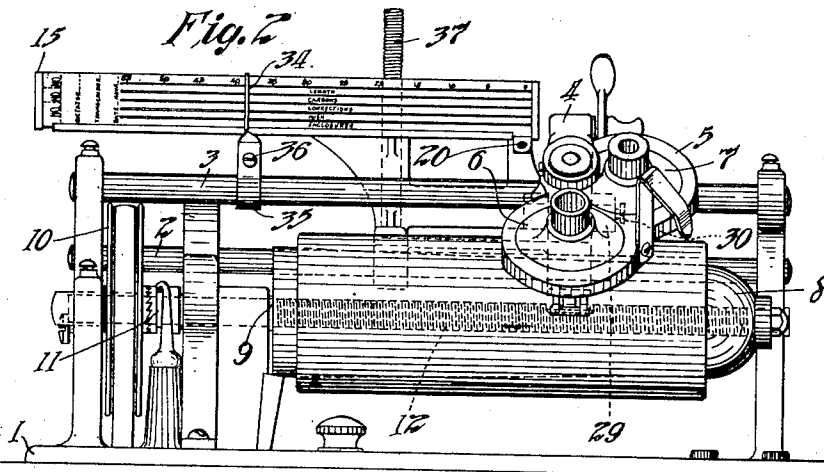
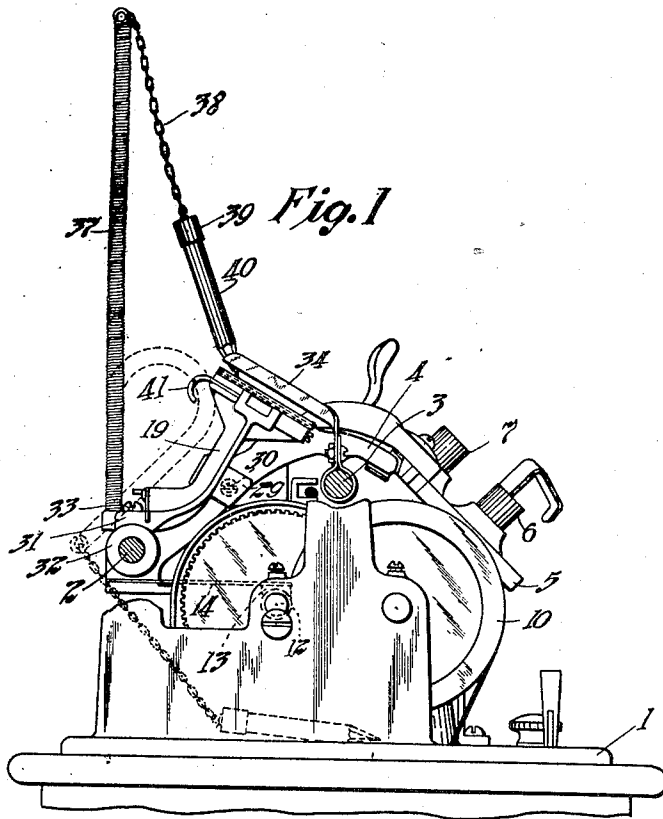


N. H. HOLLAND.
 PHONOGRAPH.
 APPLICATION FILED DEC. 2, 1911.

1,106,448.

Patented Aug. 11, 1914.
 2 SHEETS—SHEET 1.



Witnesses:
Frederick Bachmann.

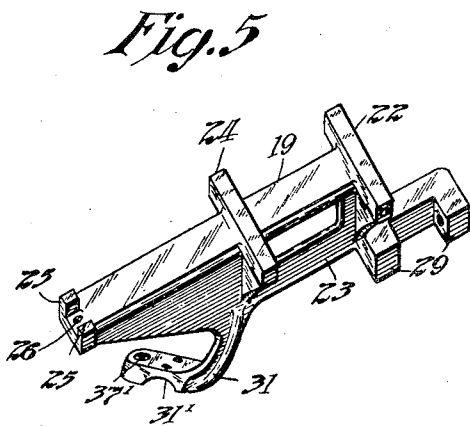
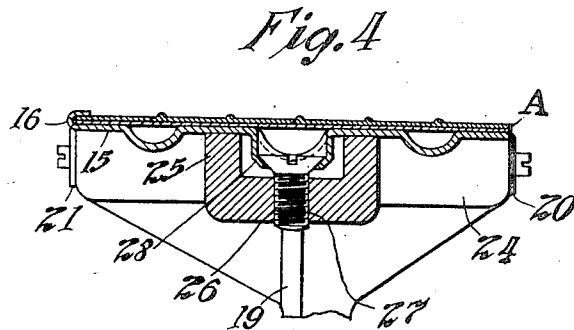
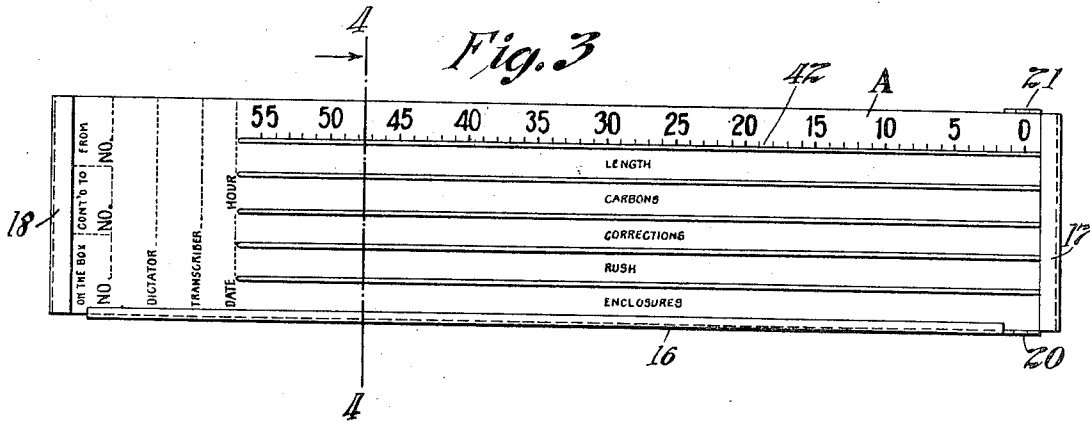
Inventor:
Norman W. Holland,
 by *Francis L. Dyer*
 His Att'y.

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2 SHEETS—SHEET 2.



Witnesses:
Edw. D. Dussche
Frederick Bachmann

Inventor:
Newman H. Holland
by Frank E. Dyer
his Atty.

UNITED STATES PATENT OFFICE.

NEWMAN H. HOLLAND, OF WEST ORANGE, NEW JERSEY, ASSIGNOR, BY MESNE ASSIGNMENTS, TO NEW JERSEY PATENT COMPANY, OF WEST ORANGE, NEW JERSEY, A CORPORATION OF NEW JERSEY.

PHONOGRAPH.

1,106,448.

Specification of Letters Patent.

Patented Aug. 11, 1914.

Application filed December 2, 1911. Serial No. 663,558.

To all whom it may concern:

Be it known that I, NEWMAN H. HOLLAND, a subject of the King of Great Britain, and a resident of West Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Phonographs, of which the following is a description.

My invention relates to phonographs and more particularly to memorandum attachments for such machines.

My principal object is to provide a new and improved device of this character by which instructions may readily be indicated for any desired part of the record. In conformity with this object, I provide a memorandum holder and a straight edge extending across the face of the holder, these parts being so connected to the fixed parts of the phonograph and the sound box support as to move relatively to each other at a speed corresponding with that of the recorder or reproducer across the record surface. I also provide a resilient pencil or marker support adapted to hold the pencil in convenient position for marking upon a memorandum carried by the memorandum holder or of being depressed, if necessary, so as to permit the placing of the cover upon the phonograph. In my preferred construction, I provide retaining means adapted to engage the resilient pencil support to hold the same in depressed position.

Other objects of my invention will appear more fully in the following specification and appended claims.

In order that my invention may be more clearly understood, attention is hereby directed to the accompanying drawings forming a part of this specification and in which—

Figure 1 represents a side elevation of a phonograph embodying one form of my invention; Fig. 2 represents a front elevation thereof; Fig. 3 represents a plan view of my improved memorandum holder with a memorandum sheet therein; Fig. 4 represents a cross section taken on the line 4—4 of Fig. 3; and Fig. 5 represents a perspective view of the bracket for connecting the memorandum holder to the sound box support or carrier arm of the phonograph.

In all of the views, like parts are designated by the same reference characters.

The phonograph shown is of the Edison type, and comprises the usual body 1 having a back rod 2 and a guide rod 3, on which rods the traveling carriage 4 is slidably mounted. Pivotaly mounted on the forward end of the carriage 4 is a frame 5 supporting a recorder 6 and a reproducer 7, the pivotal movement of this frame permitting either the recorder or the reproducer to be brought into operative position. As shown in Figs. 1 and 2, the frame 5 is in position for recording. The mandrel 8 is mounted on the main shaft 9 which is adapted to be driven from the pulley 10 when operatively connected thereto by the clutch 11, rotation being imparted to the pulley 10 by the phonograph motor (not shown).

The numeral 12 represents a feed screw which is adapted to be engaged by a nut 13 supported from the traveling carriage 4 by a spring 14 to feed the said carriage along the rod at the desired speed.

My improved memorandum attachment comprises a platen 15 provided along the forward edge thereof with an inwardly directed flange 16 and along the lateral edges with inwardly directed flanges 17 and 18, these flanges serving, as shown in Fig. 3, to retain a memorandum sheet A in position on the platen. The platen 15 is secured to the traveling carriage of the phonograph by means of a bracket 19, the platen being preferably provided adjacent one end thereof with downwardly directed flanges 20 and 21 adapted to be secured to the ends of an arm 22 extending across one end of the bracket. The latter, as shown at 23, is provided with a web-like portion extending longitudinally of the platen 15. Intermediate the ends thereof, the bracket is formed with an arm 24 extending transverse to the web 23 and adapted to support the bottom of the said platen intermediate the ends thereof. At the end of the bracket opposite that having the arm 22 are two spaced vertical projections 25. The portion of the bracket between these projections is formed with a screw threaded recess 26 adapted to receive a screw 27, which passes through and bears upon the bottom of the cup-like portion 28 of the platen 15 to assist in holding the latter in position on the bracket. At the end thereof adjacent the arm 22, the bracket is provided with a fork-like portion

29 adapted to straddle the carrier arm 4 as shown in Fig. 1, a screw 30 passing through one of the arms of this portion of the bracket serving to secure the same to the said arm. Substantially midway of the length thereof, the bracket is provided with the rearwardly directed arm 31 adapted to engage the tubular extension 32 of the carrier arm. The arm 31 is preferably provided with a recess 31' to enable the same to fit closely over the extension 32 and is secured to the said extension, as by one or more set screws 33.

A straight edge 34 preferably formed of a strip of resilient sheet metal looped about the guide rod 3, as shown at 35, and clamped thereto as by a set screw 36, extends across the face of the platen 15. The portion of the said arm extending across the platen is preferably twisted to a vertical position, as shown in Figs. 1 and 2.

My improved pencil support preferably comprises a spiral spring 37 forming a resilient rod or arm threaded into a threaded aperture 37' in the bracket 19 so as to extend vertically upward on the phonograph. This arm carries at its upper end a chain 38 carrying a socket 39 or any other suitable means for holding a pencil 40 in convenient position with respect to the platen. As shown in the drawings, the pencil is maintained by the arm 37 in a position adjacent the upper end of the platen, from which position it may readily be drawn across the straight edge 34 to mark a memorandum placed upon the platen. When released after this operation, it will be moved by the arm 37 to its normal position. A support such as the spring 37 may be easily depressed when it is desired to place the cover of the phonograph in position upon the machine; and I preferably secure to the bracket 19 a curved finger or hook 41 adapted to retain the spring rod 37 in depressed position, as shown in dotted lines in Fig. 1.

Numerous types of memorandum forms may obviously be used with my invention, but for convenience of illustration, I have disclosed a form invented by Nelson C. Durand, and described and claimed by him in an application, Serial No. 663,566, filed on even date herewith. This form is provided with a representation 42 of the scale commonly employed upon commercial phonographs, under which scale are a number of spaces extending parallel to the scale and provided with printed stock phrases designating the instructions to be noted. At one end of this form are a number of spaces for designating the record and any other desired information. In using my invention, the memorandum sheet is fed past the straight edge 34 at a rate equal to the movement of the recorder or reproducer across the record surface. If, therefore, the dictator draws

the pencil 40 across the straight edge 34 and marks the memorandum in the proper longitudinal space, for example, that marked "Corrections", while the recorder is at the part of the record for which the instructions are to be given, these instructions and the part or parts of the record to which they refer will be clearly indicated to the transcriber by the marked memorandum sheet. The phonograph of the transcriber should preferably also be provided with a memorandum attachment similar to that described above for receiving the marked memorandum sheet, so that the approach of the straight edge and the mark or marks on the sheet will vividly indicate in advance the part of the record to which reference is made by the memorandum. If for example, as stated above, the sheet is provided with a mark indicating that corrections are to be made in a particular part of the record, the transcriber, by the approach of the straight edge and the said mark, will be advised to listen for corrections to be made.

My invention is obviously capable of considerable modification and I wish it, therefore, to be understood that I am not limited to the exact details shown and described.

What I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. In a device of the class described, the combination with a phonograph having a rotatable record support, a carrier arm or sound box support, and means for uniformly progressing said sound box support across said record support, of a memorandum holder, a bracket for detachably securing said holder to said carrier arm, the said bracket having a yoke-shaped portion straddling and secured to the said arm, and a stationary straight edge detachably secured to said phonograph in proximity to the upper face of said holder, substantially as described.

2. In a device of the class described, the combination with a phonograph having a rotatable record support, a back rod, a guide rod, a sound box carrier arm slidably mounted on said guide rod and having an extension mounted on said back rod, and means for uniformly progressing said sound box support across said record support, of a memorandum holder, a bracket for detachably securing said holder to said carrier arm, and a straight edge detachably secured to said guide rod, in proximity to the upper face of said holder, the said bracket having a yoke-shaped portion straddling and secured to said arm, and a second portion resting upon the extension of the carrier arm, substantially as described.

3. In a device of the class described, the combination with a phonograph having a rotatable record support, a carrier arm or

sound box support, and means for uniformly progressing said sound box support across said record support, of a memorandum holder, a bracket for detachably securing said holder to said carrier arm, and a stationary straight edge secured to said phonograph in proximity to the upper face of said holder, and extending over substantially the full width of the same, substantially as described.

4. In a device of the class described, the combination with a phonograph having a rotatable record support, a sound box support, and means for producing a relative feeding movement between said supports, of a holder carrying a memorandum sheet having indicating spaces extending longitudinally thereof, and a straight edge located in proximity to said holder and extending over substantially the full width of the indicating spaces of said memorandum sheet, the said holder and straight edge being connected with said phonograph for relative movement proportionately to the relative movement between said record and sound box supports, substantially as described.

5. In a device of the class described, the combination with a phonograph having a rotatable record support, a carrier arm or sound box support, and means for uniformly progressing said sound box support across said record support, of a holder secured to said sound box support and carrying a

memorandum sheet having indicating spaces extending longitudinally thereof, and a stationary straight edge secured to said phonograph in proximity to said holder and extending over substantially the full width of the indicating spaces of said memorandum sheet, substantially as described.

6. In a device of the class described, the combination with a phonograph having a rotatable record support, a sound box support, and means for producing a relative feeding movement between said supports, of a holder carrying a memorandum sheet and provided with inwardly directed flanges for retaining the memorandum sheet thereon, said memorandum sheet having indicating spaces extending longitudinally thereof, and a straight edge located in proximity to said holder and extending over substantially the full width of the indicating spaces of the memorandum sheet, the said holder and straight edge being connected with said phonograph for relative movement proportionately to the relative movement between said record and sound box supports, substantially as described.

This specification signed and witnessed this 29 day of November 1911.

NEWMAN H. HOLLAND.

Witnesses:

FREDERICK BACHMANN,
ANNA R. KLEHM.