A. B. WALKER.

SOUND REPRODUCING INSTRUMENT.

APPLICATION FILED JAN. 5, 1914.

1,150,563. Patented Aug. 17, 1915.

Fig. 1.

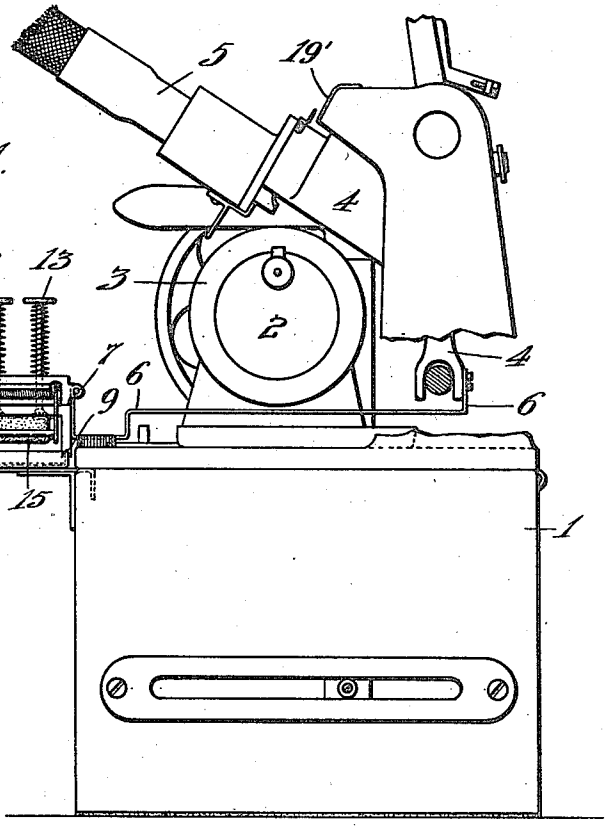



Fig. 2.

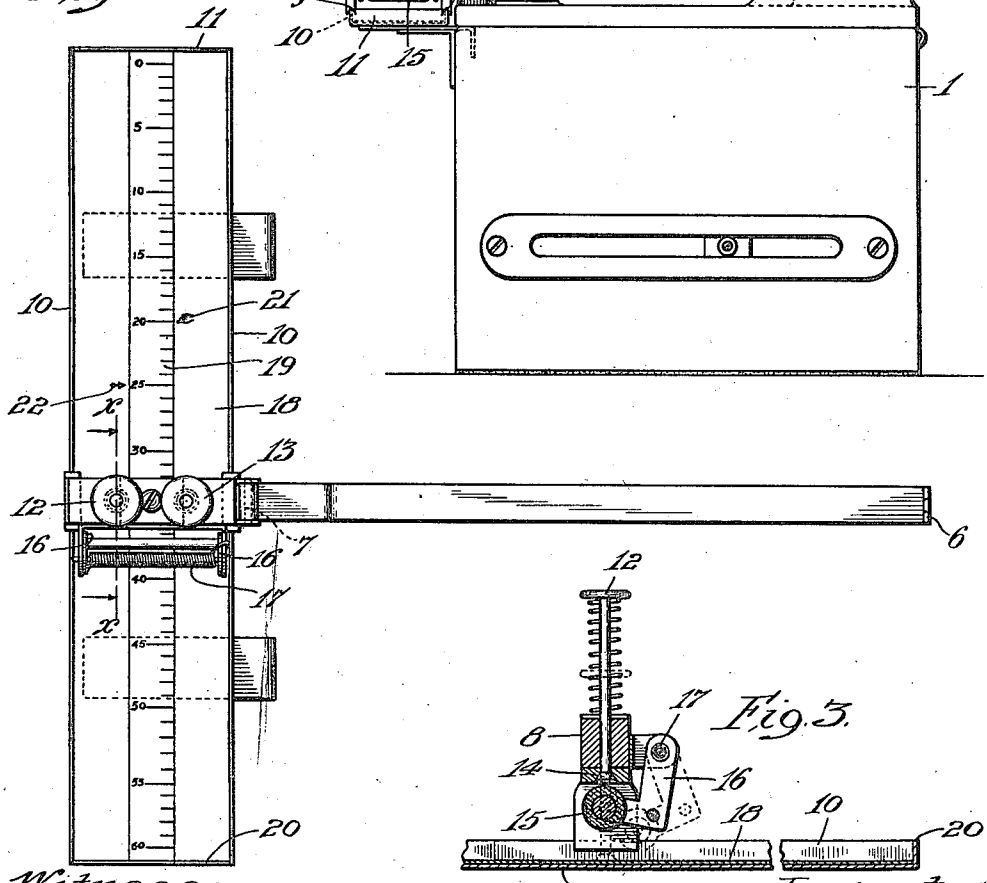



Fig. 3.




Witnesses:

H. S. Bruce.

B. G. Richards

Inventor:

Archie B. Walker.

by Joshua R. H. Potts

his Attorney.

# UNITED STATES PATENT OFFICE.

ARCHIE B. WALKER, OF CHICAGO, ILLINOIS.

## SOUND-REPRODUCING INSTRUMENT.

1,150,563. Specification of Letters Patent. Patented Aug. 17, 1915.

Application filed January 5, 1914. Serial No. 810,475.

*To all whom it may concern:*

Be it known that I, ARCHIE B. WALKER, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Sound-Reproducing Instruments, of which the following is a specification.

My invention relates to improvements in sound reproducing instruments and more especially to sound reproducing instruments employed as a means for reproducing dictation by stenographers or typewriters, the object of the invention being to facilitate the reproduction of such dictation.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawing forming a part of this specification, and in which—

Figure 1 is an end view of a sound reproducing instrument with portions broken away and others in section, Fig. 2, a top plan view of a marking attachment attached to said instrument, and Fig. 3, a partial section taken on line *x—x* of Fig. 2.

The attachment is shown as used in conjunction with an ordinary sound reproducing instrument now on the market and known as the "dictaphone." This instrument comprises a suitable base or box 1 containing the operating mechanism of the instrument; a mandrel 2; a record cylinder 3 on said mandrel; a traveling carriage 4 and a speaking tube 5, all arranged to operate in the usual manner, the carriage 4 being provided with the usual means for recording sound on cylinder 3 or for audibly reproducing said sound as is usual in such machines.

As stated above the sound reproducing instrument is old and well known, constitutes no part of my present invention, except in so far as it enters into the combination and needs no further description here.

The preferred form of attachment illustrated in the accompanying drawing constitutes a supporting bracket or arm 6 secured to the lower rear portion of carriage 4 and projecting forwardly under cylinder 3 to the forward edge of base 1, where it is turned upwardly and provided with a pivot 7 pivotally mounting a substantially U-shaped plunger frame 8 thereon. The lower edges of frame 8 are provided with grooves 9 running on the upturned edges 10 of a channel member 11 mounted at the upper forward edge of base 1. Two depressible spring held marking plungers 12 and 13 are mounted to slide vertically in frame 8 so as to permit the lower ends of said plungers to contact with the bottom of channel member 11. Each of the plungers 12 and 13 is provided at its lower end with a marking head 14, said marking heads being provided with distinctive marking means, in the present instance, plunger 12 being provided with means for printing an arrow and plunger 13 for printing a pointing finger. An inking roller 15 is mounted in angular swinging arms 16 pivoted to frame 8 and is normally held in operative relation with the marking heads 14 by means of a spring 17, the arrangement being such that when either of the plungers 12 or 13 is depressed the corresponding marking head 14 will be supplied with ink and at the same time roller 15 will be automatically swung out of the path of said plunger to permit of free depression thereof as indicated by dotted lines in Fig. 3. A removable strip of paper 18 is placed in the bottom of channel member 11 and is provided with a centrally arranged scale 19, the scale 19 being arranged to represent the length of travel of carriage 4 and consequently corresponding with the usual indicator scale 19′ provided on the instrument, and being positioned between the paths of travel of plungers 12 and 13. A stop flange 20 is arranged at one end of channel member 11 and serves as a means for accurately positioning scale 19 with its zero in registration with the starting point of carriage 4 and its highest graduation in registration with the end of said travel.

In use the instrument is prepared for dictation in the usual manner and a paper strip 18 bearing the scale 19 is positioned in channel 11. The dictation is then commenced and continued in the usual manner. When

an error is made in the dictation or other occasion arises for caution to the typist who is to reproduce the same, the travel of carriage 4 is momentarily stopped and plunger 13 depressed to print a pointing finger 21 on strip 18 adjacent scale 19. At the termination of the dictation the carriage is again stopped and plunger 12 is depressed to print an arrow 22 on the other side of scale 19 to indicate the termination of the dictation. Thus the scale marked as shown in Fig. 2 would indicate that an error had been made at point 20 and that the dictation had ended at point 25 of scale 19. Further dictation may be continued until the corresponding record cylinder is entirely used up and similar indicating marks made on strip 18. If the same instrument is used in reproducing the dictation a visual record is presented to the operator indicating the places on the ordinary indicator scale of the instrument where caution must be exercised thus avoiding the repetition of the mistakes in dictation. If a different instrument is to be used in reproducing the dictation, the strip 18 is removed with the cylinder 3 and serves to notify the operator as to the places in the dictation where caution must be exercised.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. The combination with the traveling carriage of a sound reproducing instrument, of a support secured thereto; two depressible marking plungers on said support; and a scale arranged between the lines of travel of said plungers, substantially as described.

2. The combination with the traveling carriage of a sound reproducing instrument, of a support secured thereto; two depressible marking plungers on said support; and a paper scale removably arranged between the lines of travel of said plungers, substantially as described.

3. In combination a sound reproducing instrument traveling carriage; a supporting bracket secured to said carriage; a plunger frame pivotally connected with said bracket; a channel support for said plunger frame, there being notches in the lower portion of said frame riding on the edges of said channel; two depressible spring held marking plungers mounted in said frame and adapted to contact with the bottom of said channel; distinctive marking elements on the bottoms of said plungers; a spring held inking roller normally contacting with said marking elements but arranged to be automatically swung from the path of said plungers upon depression thereof; and a strip of paper arranged in said supporting channel and provided with a centrally positioned scale arranged between the paths of travel of said plungers, substantially as described.

4. In combination a sound reproducing traveling carriage; a supporting bracket secured to said carriage; a marking frame pivotally connected with said bracket; a support upon which said frame rides; a marking element on said frame; and a mark receiving element on said support in operative relation with said marking element, substantially as described.

5. In combination a sound reproducing traveling carriage; a supporting bracket secured to said carriage; a marking frame pivotally connected with said bracket; a spring held depressible plunger on said frame; a marking element on the bottom of said plunger; a spring held inking roller normally contacting with said marking element but arranged to be automatically swung from the path of said plunger upon depression thereof; and a mark receiving element in operative relation with said marking element, substantially as described.

6. In combination a sound reproducing traveling carriage; a supporting bracket secured to said carriage; a marking frame pivotally connected with said bracket; a support upon which said frame rides; a spring held depressible plunger on said frame; a marking element on the bottom of said plunger; a spring held inking roller normally contacting with said marking element but arranged to be automatically swung from the path of said plunger upon depression thereof; and a mark receiving element in operative relation with said marking element, substantially as described.

7. In combination a sound reproducing traveling carriage; a supporting bracket secured to said carriage; a spring held depressible plunger on said bracket; a marking element on the bottom of said plunger; a spring held inking roller normally contacting with said marking element but arranged to be automatically swung from the path of said plunger upon depression thereof; and a mark receiving element in operative relation with said marking element, substantially as described.

8. In combination a sound reproducing traveling carriage; a supporting bracket secured to said carriage; a marking frame pivotally connecting with said bracket; a

channel support upon which said frame rides, there being notches in the lower portion of said frame engaging the edges of said channel; a marking element on said frame; and a mark receiving element on said support in operative relation with said marking element, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARCHIE B. WALKER.

Witnesses:

JOSHUA R. H. POTTS,

HELEN F. LILLIS.