Dec. 19, 1939. E. SCHWARTZ 2,183,777

SOUND REPRODUCING DEVICE

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Fig. 1.

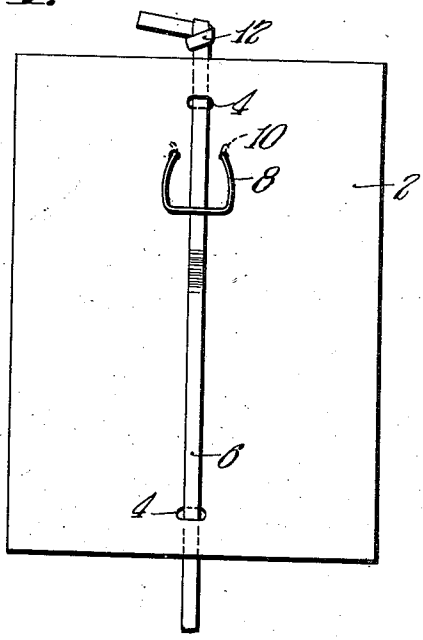

Fig. 2.

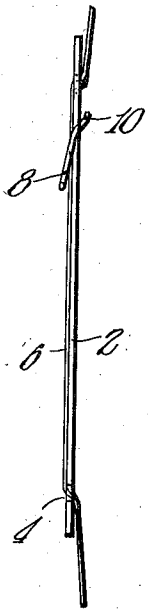

Fig. 3.

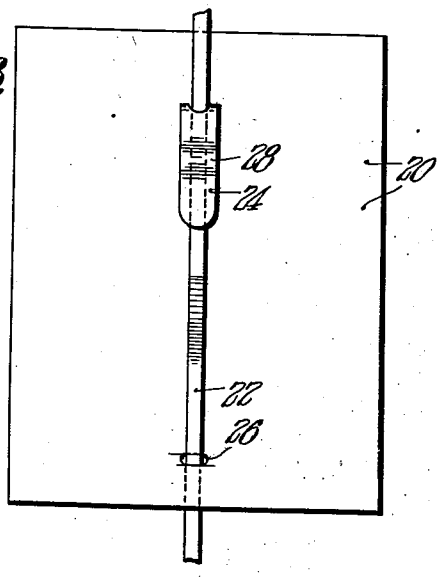

Fig. 4.

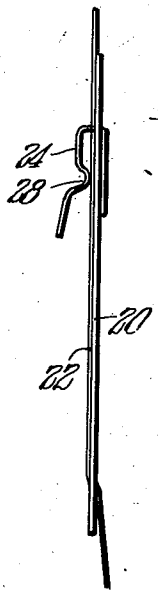

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Fig. 5.

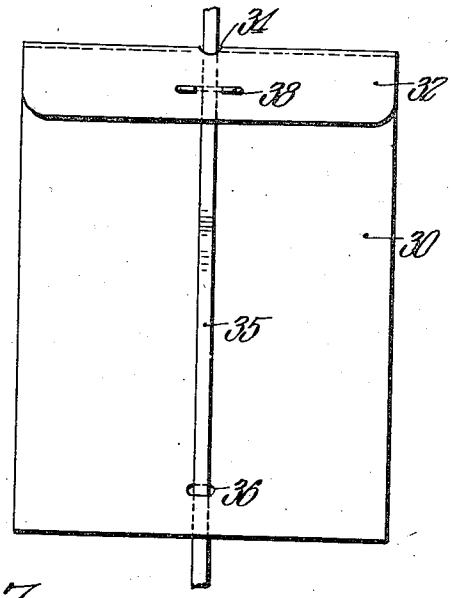


Fig. 6.

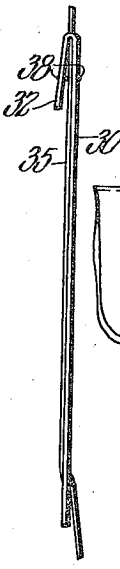


Fig. 9.

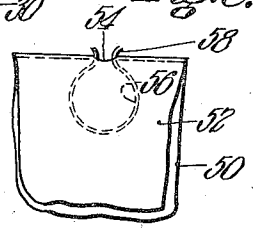


Fig. 10.

Fig. 7.

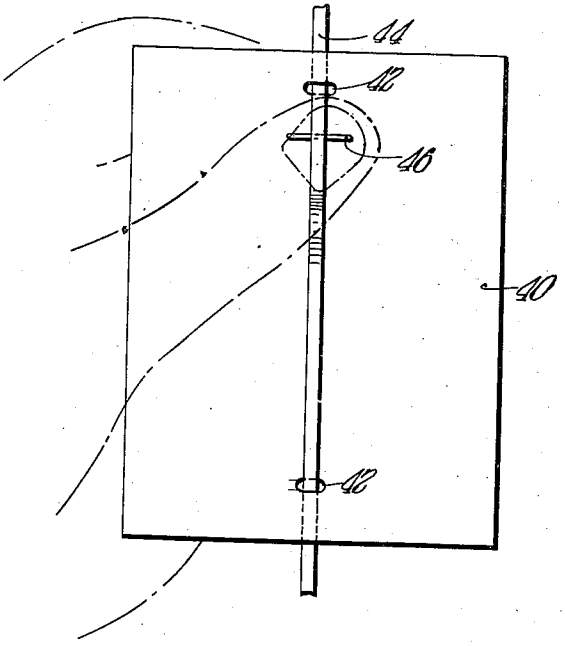
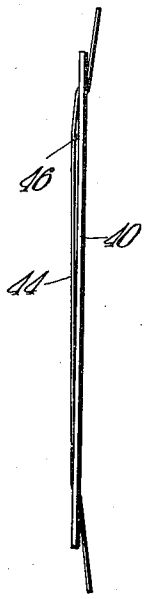


Fig. 8.



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UNITED STATES PATENT OFFICE

2,183,777

SOUND REPRODUCING DEVICE

Edward Schwartz, New York, N. Y., assignor to The Sound Publicity Corp., New York, N. Y., a corporation of New York

Application February 7, 1939, Serial No. 255,037

3 Claims. (Cl. 274—11)

This invention relates to improvements in sound-reproducing devices and is directed more particularly to the provision of a novel article of manufacture including a sound track member which is manually engageable and adapted to be moved relative to a member in such a way as to produce sounds.

It is a principal object of the invention to provide a novel article of the type referred to which is simple in form so as to be economical to manufacture and which may be readily operated manually. As special features, the device of the invention includes a record or sound-track member and a support relative to which the record member may be moved and associated with the support in a member which is adapted to be manually depressed against the record strip as it moves so as to produce the sounds.

Preferably the support takes the form of a relatively flat and thin card and this may bear various indicia such as are commonly found on greeting cards and the like. In this way, the sound track may bear suitable indentations to produce a recorded greeting properly corresponding to the indicated greeting printed on the card.

Still another object of the invention is to provide a support having a record member movable longitudinally in its plane and having means for guiding the record member in its said longitudinal movements. As will appear, the guiding means preferably takes the form of a pair of transverse slots provided in the card into which slots the record member is threaded or interlaced.

Various other novel features and advantages of the invention will be hereinafter more fully referred to in connection with the following description of the invention in its preferred form, reference being had to the accompanying drawings, wherein:

Fig. 1 is a plan view of one form of the device of the invention;

Fig. 2 is a side elevational view of the device shown in Fig. 1;

Fig. 3 is a plan view of a modified form of the device shown in Figs. 1 and 2;

Fig. 4 is a side elevational view of the form shown in Fig. 3;

Fig. 5 is a plan view of still another modified form of the device of the invention;

Fig. 6 is a side elevational view of the device shown in Fig. 5;

Fig. 7 is a plan view of a further modification;

Fig. 8 is a side elevational view of the form shown in Fig. 7;

Fig. 9 is a partial plan view showing still another modification of the device of the invention; and

Fig. 10 is a side elevational view of the form shown in Fig. 9.

Referring now to the drawings more in detail, the invention will be fully described.

The invention in general consists of a support member relative to which a record strip is movable and the support has associated therewith means against which the record strip is caused to bear in order to produce sounds. The support member preferably is in the form of a flat, relatively thin sheet of cardboard or some similar material and it is this member which is adapted to carry the desired greeting indicia. It obviously may vary in shape as well as size.

According to the form shown in Fig. 1, the support is indicated by 2 and it has a pair of transverse slots 4 provided therein. A flexible strip member 6 bearing a sound track is threaded into said slot as shown so as to be movable longitudinally substantially in the plane of the card's forward surface.

Intermediate the slots 4, the card carries a clip member 8 which is preferably stirrup-shaped as shown. This may be fastened to the support in various ways so as to be movable relative thereto.

In the form shown the sidearms of the clip extend through holes in the card and their ends are offset at 10 as shown to prevent the clip's removal. The arrangement is such that the record member 6 is disposed under the transverse part of the clip and the latter is virtually hinged to the support so that it may be readily pressed against the support and record by the finger of one hand.

Then with the other hand the operator may grasp one end of the flexible strip and move it longitudinally relative to the card and the clip, the clip 8 engaging the grooves and ridges in the record strip 6 so as to produce the sound intended.

If desired, the opposite ends of the record strip may be knotted as indicated at 12 so as to prevent the same from being pulled entirely through the slots 4.

In Figs. 3 and 4, a support member, substantially the same as the card 2, is indicated by 20 and this has a record tape 22 movable longitudinally thereof. A substantially U-shaped clip member 24 formed of relatively flat spring-like

metal has an intermediate portion extending through an opening in the card as shown in Fig. 4 so as to have opposite arms of the U at opposite sides of the card.

Member 24 has an opening in its said intermediate part and the tape 22 extends therethrough as well as through an opening 26 in the card as shown. The front arm of the U-shaped clip has an off-set portion 28 and this is adapted to engage the grooved face of the record strip when the same is pressed, as by a finger or thumb, against the card in the same manner as the clip member 8 above described.

According to the form shown in Figs. 5 and 6, a support member 30 is formed of foldable sheet material such as cardboard and this is folded transversely upon itself to have a hinged flap 32. An opening 34 extends through the card adjacent to, or preferably on, the folding line as shown.

A record strip member 35 extends through this opening as well as through another opening 36, as shown. These openings guide the record-tape in its longitudinal movements just as do the openings in the modifications heretofore described.

A record-engaging member 38 is associated with either the body member 30 or the flap 32. In the drawings, it is shown as a staple-like member fastened to the flap 32 wherefore the flap may be swung on its hinge into adjacency with the support and pressed against the record with one hand while the tape is pulled with the other.

The modification shown in Figs. 7 and 8 includes a support member 40, similar to the card 2, provided with a pair of spaced slots 42 into which a record tape 44 is threaded as shown. A staple-like member 46 is fastened to the card intermediate the slots and substantially in alignment therewith.

The tape is so inserted in the slots that when it is pressed against the card, as by means of the thumb as indicated by the dot-dash lines in Fig. 7, it bears against the metal staple and, when pulled longitudinally relative thereto, produces the recorded sounds. It will be understood that with this form the record grooves and ridges are on the back face of the tape.

In Figs. 9 and 10 I have shown still another modification. Here the support takes the form of a foldable sheet member folded upon itself to have a pair of hinged leaves 50 and 52. An opening 54 is provided through the card on the folding line and a record tape (not shown) is intended to extend therethrough so as to be movable between the leaves.

A clip member such as 56 is hingedly disposed between the leaves for swinging relative to either leaf. This clip is formed to have offset portions 54 on opposite ends of a substantially circular body part and is associated with the support in the manner shown which serves to hold it in place.

The tape is disposed on either side of the clip and thus the leaves may be squeezed together with the tape and clip therebetween. Then as the tape is drawn through the opening 54, the engagement thereof with the clip creates the desired sounds.

While I have described the invention in great detail and with respect to the present preferred form thereof, it is not desired to be limited thereto since many changes and modifications may be made therein without departing from the spirit and scope of the invention.

What it is desired to claim and secure by Letters Patent of the United States is:

1. A sound-reproducing device comprising in combination, a card member of foldable material folded upon itself along a transverse line so as to have a flap portion thereof foldable into contiguous relation with a main body portion thereof and provided with a primary slot extending through the transverse line and with a secondary slot through said member at a distance away from the transverse line, a record strip member extending through each of the slots and movable longitudinally thereof between the flap portion and the body portion of said card member, and a means associated with the contiguous portions of said card member arranged whereby when the flap portion is manually pressed against said means and the body portion of said card member and the portion of said strip member disposed therebetween said strip member moving through the contiguous portions produces sounds.

2. A sound-reproducing device comprising in combination, a card member of foldable material folded upon itself along a transverse line so as to have a flap portion thereof foldable into contiguous relation with a main body portion thereof and provided with a slot extending through the transverse line, a record strip member extending through the slot and movable longitudinally thereof between the flap portion and the body portion of said card member, and a means associated with the contiguous portions of said card member arranged whereby when the flap portion is manually pressed against said means and the body portion of said card member and the portion of said strip member disposed therebetween said strip member moving through the contiguous portions produces sounds.

3. A sound-reproducing device comprising in combination, a card member of foldable material folded upon itself so as to have a flap portion thereof foldable into contiguous relation with a main body portion thereof and provided with a slot extending therethrough, a record strip member extending through the slot in said card member and movable longitudinally thereof between the flap portion and the body portion of said card member, and a means associated with the contiguous portions of said card member arranged whereby when the flap portion is manually pressed against said means and the portions of said strip member associated therewith, said strip member moving through the contiguous portions produces sounds.

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