March 24, 1931. G. A. GAYER 1,797,647

EXHIBITOR OR RECORDER

Filed June 6, 1930

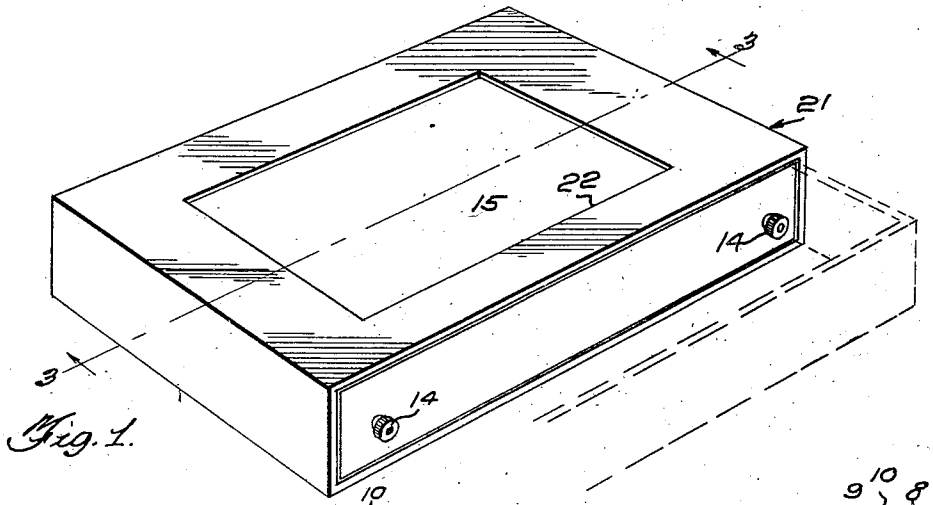


Fig. 1.

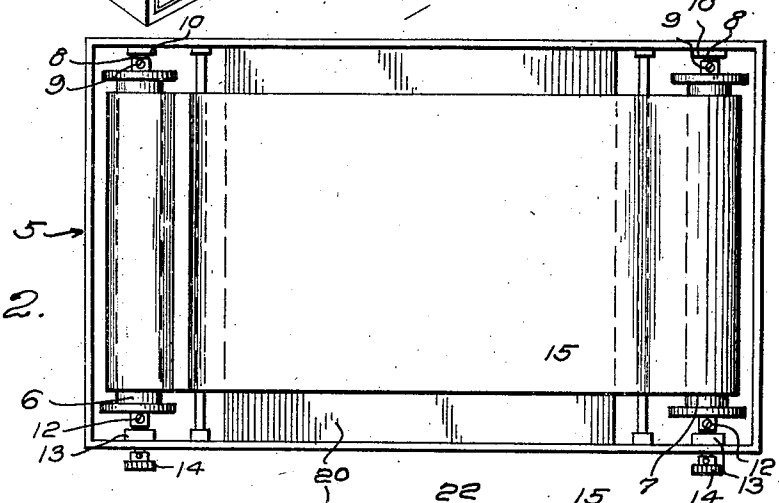


Fig. 2.

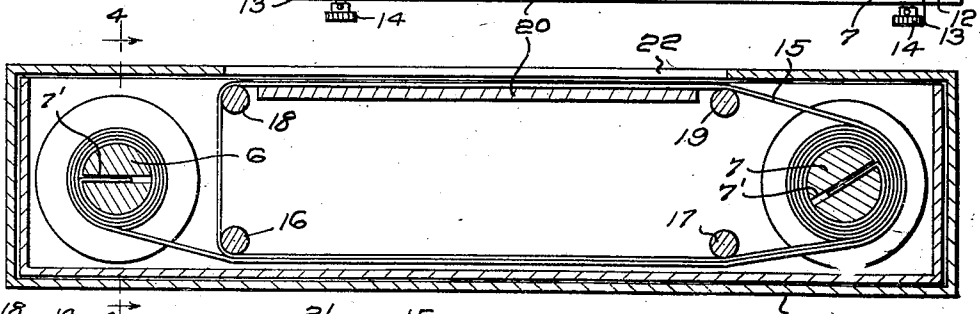


Fig. 3.

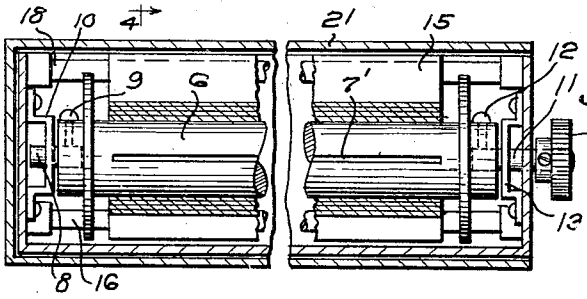


Fig. 4.

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UNITED STATES PATENT OFFICE

GUSTAV A. GAYER, OF NEW YORK, N. Y.

EXHIBITOR OR RECORDER

Application filed June 6, 1930. Serial No. 459,551.

My invention relates to a device for use in exhibiting writing or the like, and which may also be used in making records.

The device is well adapted to be used by speakers where it is desired to bring notes or writing into a visible position. The device embodies a take-up roll and a feed roll. A strip carrying the desired information is fed from the feed roll across a window or the like, and is then looped about the feed roll and extended to the take-up roll and attached thereto. The rolls are mounted in a support or casing and the take-up roll is arranged next to the user. The arrangement of the sheet and associated elements is such that when the take-up roll is turned in a clockwise direction, away from the user, the upper run of the sheet travels in a forwardly direction from the user. If the take-up roll is turned in a reverse direction, the upper run will not move. The device is extremely simple in construction and eliminates the use of all gears, ratchet wheels, etc.

In the accompanying drawings, forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a perspective view of the device embodying my invention,

Figure 2 is a plan view of the device, the cover removed,

Figure 3 is a central vertical longitudinal section taken on line 3—3 of Figure 1, and,

Figure 4 is a transverse section taken on line 4—4 of Figure 1.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates a support, preferably in the form of an elongated rectangular casing, having its top open. Arranged within the rear and forward ends of this casing and extending transversely thereof, are take-up and feed rolls 6 and 7, preferably in the form of spools. Each roll is provided at one end with a shaft 8, clamped thereto by a screw 9, or the like, and this shaft is rotatably mounted in a bearing bracket 10, rigidly attached to the side of the casing 5. An actuating shaft 11 is attached to the opposite end of each roll by means of a screw 12, or the like, and extends through a bearing bracket 13, rigidly attached to the opposite side of the casing. A knob or actuating element 14 is attached to the outer end of the actuating shaft 12. Each rod has a slot 7′. It is thus seen that either roll may be conveniently turned by the hand, in either direction. The knobs or actuating elements 14 are arranged adjacent to the rear and forward ends of the casing.

The numeral 15 designates a flexible record strip, either containing a record thereon or adapted to have a record written or otherwise produced thereon. This flexible strip is wound upon the feeding roll 7, with the inner end of the strip suitably attached to the feeding roll, which may be effected by inserting the end of the strip into the transverse slot 7′. The outer or free end of the strip is then passed rearwardly beneath stationary rear and forward guides or rods 16 and 17, attached to the sides of the casing, and then forwardly over stationary guides or rods 18 and 19, also attached to the side of the casing. A flexible strip is then passed or looped about the forward side of the roll of the same, and is again passed rearwardly beneath the guide elements 16 and 17 exteriorly of the lower run of the strip. The free end of the flexible strip is then attached to the take-up roll 16 by any suitable means, as by inserting the same into the transverse slot 7′.

A stationary bed or plate 20 is arranged beneath the upper run of the strip 15 and is attached to the sides of the casing 5.

The numeral 21 designates a cover, as a whole, having one side open to bodily receive the casing 5. This cover is provided in its top with a window or opening 22, through which the upper run of the flexible strip 15 is visible.

The operation of the device is as follows:

When the device is being used by a speaker or the like, it may be conveniently supported upon a table in front of him with the take-up roll 6 arranged in the rearmost position, near the speaker. The window 21 renders the upper run of the flexible strip 15 visible. This flexible strip may carry thereon any desired information or data, such as a prepared ad-

dress, or notes relating thereto. As the data is read, the speaker turns the actuating element 14 clockwise or away from him, and then causes the take-up spool 6 to be rotated clockwise, whereby the lowermost run of the flexible strip is wound upon the take-up roll and the upper run is moved longitudinally in a forwardly direction from the speaker. Should the speaker inadvertently turn the roll 6 counter-clockwise, the strip 15 will not be advanced. It is thus seen that by virtue of the arrangement of the rolls, guide elements or rods and the flexible strip that the upper run of the flexible strip may be advanced in a direction forwardly from the take-up roll, which is highly convenient to operate since it is nearest to the speaker. Should it become desirable to reverse the direction of movement of the upper run of the flexible strip, this may be effected by turning the feed roll 7 counter-clockwise toward the speaker, but a clockwise movement of the feed roll will not advance the flexible strip. Hence, the flexible strip may be advanced by the feed roll arranged nearest to the speaker, in a highly convenient manner, and the employment of gears, ratchets and the like eliminated. When the device is not in use, the cover 21 is removed from the casing 5 and inverted and again applied to the casing so that the window 21 will be at the bottom of the casing and the closed bottom of the cover will close the open top of the casing.

While the device has been described as used in connection with the flexible strip 15 having suitable information or data thereon, it may also be used for making records upon this flexible strip. The user may write, draw, or otherwise produce records upon the top run of the strip 15, above the bed plate 20 and the upper run will be advanced, by turning the rear actuating element 14, as explained.

It is to be understood that the form of my invention, herewith shown and described, is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to, without departing from the spirit of my invention, or the scope of the subjoined claims.

Having thus described my invention, I claim:—

1. A device of the character described, comprising an elongated support, a take-up roll connected with the rear end of the support, a feed roll connected with the forward end of the support, guide means connected with the support and arranged between said rolls, a flexible strip carried by the feed roll and passed rearwardly about the guide means and then forwardly and looped over the feed roll and then passed rearwardly for attachment to the take-up roll, and means to turn the take-up roll, the arrangement being such that when the take-up roll is turned in a forward direction, the upper run of the flexible sheet travels in the forward direction.

2. A device of the character described, comprising a casing, a take-up roll arranged within the rear end of the casing, a feed roll arranged within the forward end of the casing, guide means arranged between said rolls, a bed connected with the casing and disposed between the rolls, a flexible strip carried by the feed roll and passed rearwardly and about the guide means and then forwardly over the bed and looped over the feed roll and again passed rearwardly for attachment to the take-up roll, means to turn the take-up roll, means to turn the feed roll, the arrangement being such that when the take-up roll is turned in a forward direction the upper run of the flexible strip travels in a forward direction, the take-up roll being incapable of effecting the travel of the strip when turned in a reverse direction.

In testimony whereof I affix my signature.

GUSTAV A. GAYER.