Aug. 28, 1923. 1,466,252

C. E. SHAW

REVOLVING CARD DEVICE

Filed Dec. 27, 1921 2 Sheets-Sheet 1

Fig. 1.

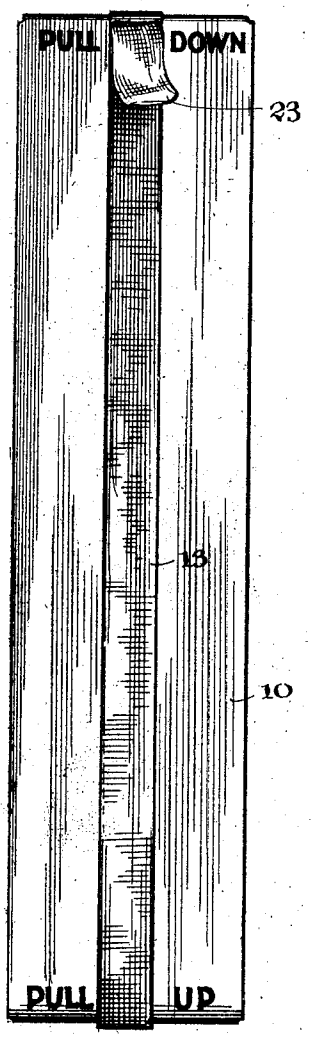


Fig. 2.

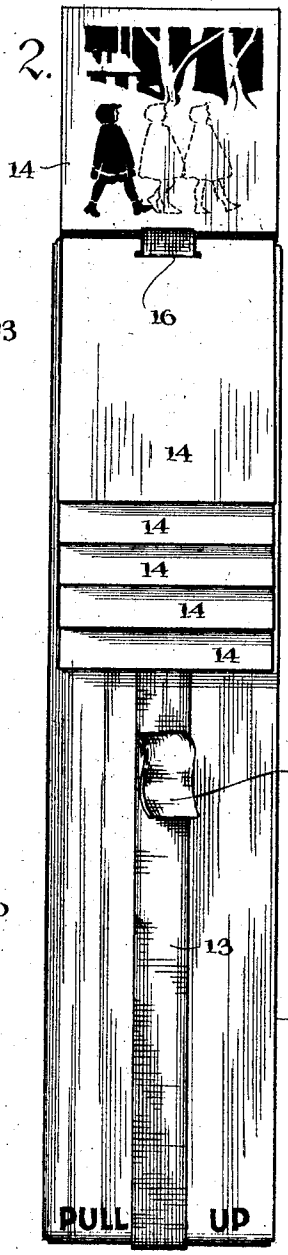
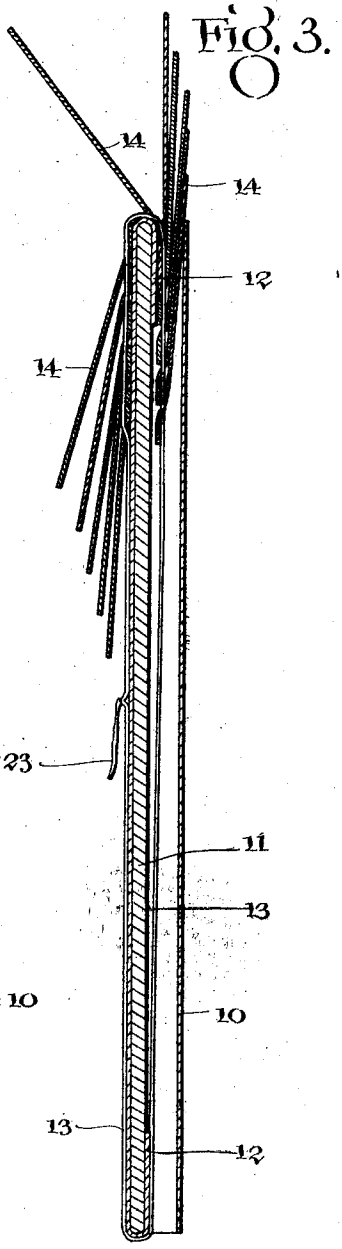


Fig. 3.



WITNESSES

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Fig. 4.

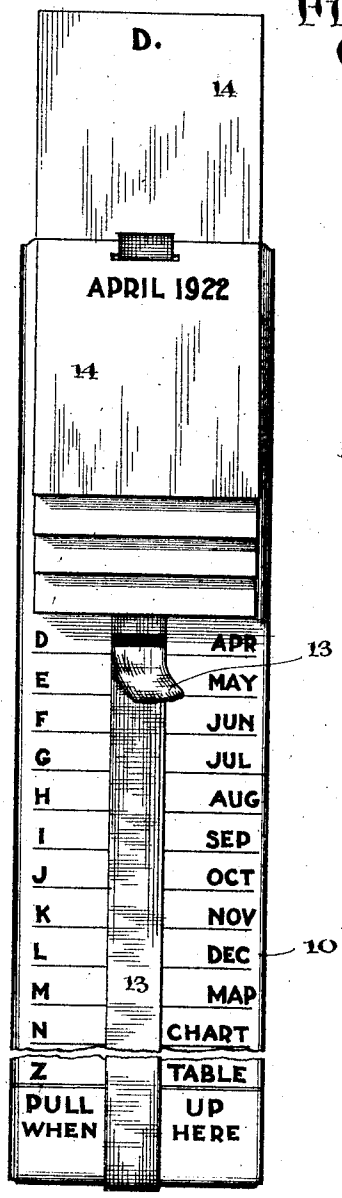


Fig. 7.

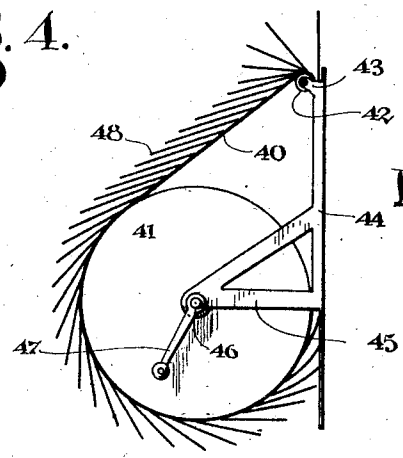


Fig. 5.

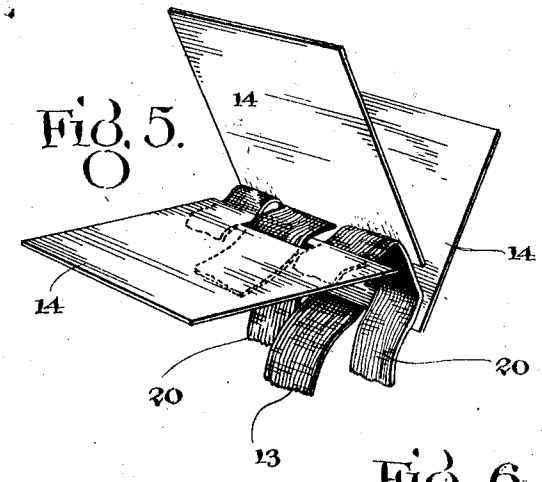
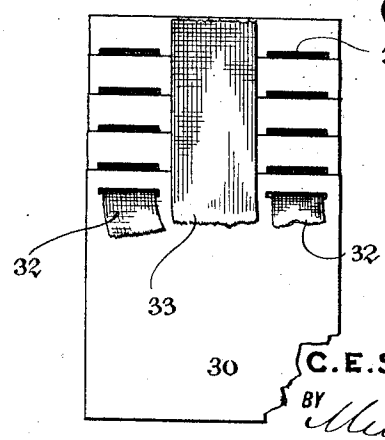


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

CLARENCE E. SHAW, OF GIG HARBOR, WASHINGTON.

REVOLVING CARD DEVICE.

Application filed December 27, 1921. Serial No. 525,147.

To all whom it may concern:

Be it known that I, CLARENCE E. SHAW, a citizen of the United States, and resident of Gig Harbor, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Revolving Card Devices, of which the following is a specification.

This invention relates to card display devices and has for its object the provision of a device of the character specified having novel means whereby a number of cards may be exposed in rapid sequence so that the matter on the several cards may be viewed.

A further aim of the invention is to provide novel means whereby the cards are supported so that the continued exposure of the same will not weaken or crack the cards or the means of securing the same to the flexible strip, the said flexible strip constituting an operating and supporting means for the cards.

A further object is to provide a display device of the character specified which is of highly simplified construction, simple to operate and cheap to manufacture.

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

Figure 1 is an elevation of the improved display device, the cards being concealed.

Figure 2 is also an elevation of the improved display device, certain of the cards being removed from the casing and one of the cards being in upright position so that the matter thereon may be readily seen.

Figure 3 is a vertical transverse sectional view through the improved display device.

Figure 4 is an elevation of a slightly modified form of the invention.

Figure 5 is a fragmentary perspective illustrating the connecting means for the cards.

Figure 6 is a detail elevation illustrating the modified form of the invention.

Figure 7 is a side elevation illustrating a modified form of the invention.

In the drawing wherein for the purpose of illustration is shown several preferred embodiments of the invention the numeral 10 designates a casing which is of elongated formation and has for its ends open as illustrated in Figure 3. The casing may be formed of cardboard or other suitable material and is reinforced by means of backing strips 11 secured behind the front wall of the casing by means of flaps 12 or other suitable fastening devices.

As illustrated in Figure 3 a continuous flexible strip 13 of tape or the like is extended about the front wall of the casing and supports a plurality of cards 14 each one of which is provided with a picture slightly different from the pictures on the adjacent cards, so that as the cards are rapidly moved and exposed to view, the objects applied to the several cards will appear to move.

The cards 14 are provided with transverse slots 16 at points spaced from their lower ends and the said slots receive the continuous strip 13. The several cards have their portions adjacent the slots 16 glued or otherwise secured to the continuous strip 13 so that one card is not permitted to move on the strip and thereby get out of place. As illustrated in Figure 5 the several cards 14 are joined by a pair of parallel flexible connecting strips 20 arranged on opposite sides of the flexible strip 13. Of course the connecting strips 20 have their ends secured to the end cards and the intermediate portions of the connecting strips are preferably glued to the backs of the several cards. The connecting strips 20 of which there are two hold the several cards in position with relation to the other cards so that the same may be rapidly exposed to view. However, the strips 20 do not detract from the appearance of the device as the several strips are secured to the backs of the cards.

In operation the several cards may be withdrawn from the casing by pulling down on a finger piece 23 formed on member 13.

The several cards may be provided with pictures as illustrated in Figure 2 or with data as illustrated in Figure 4. In Figure 4 the front wall of the casing may also be provided with data for use in an office and the improved display device in that case may be suspended from the wall in any suitable manner or supported on the desk.

When all the cards are concealed within the casing the finger piece 23 is grasped and drawn downwardly so that the cards will be quickly exposed in rapid succession. This causes the rapid change of view so that the objects in the picture appear to move. When it is desired to return the cards to within the casing it is merely necessary to pull upwardly on the finger piece 23 so that the continuous strip 13 will be operated. By

reason of the means employed for connecting the cards to the strip 13 continued use of the device will not break the connection between the cards and the strip.

In the modified form of the invention illustrated in Figure 6 the several cards 30 are provided with transverse slots 31 for the reception of a pair of spaced parallel strips 32. A connecting strip 33 of any suitable material is glued or otherwise secured to the backs of the cards and forms a means for supporting the same.

In the form of the invention illustrated in Fig. 7 the endless strip 40 is trained about a roller or drum 41 and about a smaller roller 42 rotatably carried by the ears 43 of a frame 44. The frame 44 is also provided with a pair of rearwardly projecting brackets 45 which rotatably support the drum 41. The shaft 46 of the drum may be provided with a crank 47 by means of which the drum may be rotated for operating the several cards 48 carried by the endless strip.

With reference to the foregoing description taken in connection with the accompanying drawings it will be apparent that the improved display device is capable of a variety of mechanical expressions and it is also understood that the several forms of the invention herewith shown and described are to be taken as preferred examples of the same and that such minor changes in the arrangement and construction of parts may be made as will remain within the spirit of the invention and the scope of what is claimed.

The inventive idea involved in this application may be applied to motion pictures, card indexes, books, calendars, lists of various kinds, calculation tables, valentines, etc., and the device may be made from paper, metal, celluloid, wood or other desired material.

Having thus described the invention, what is claimed is:—

1. A device of the character specified comprising an elongated casing having its ends open, a continuous strip passed about the front wall of said casing and having a finger piece, by means of which the strip may be operated, and a plurality of display cards having their rear portions formed with slots receiving said endless strip.

2. A device of the character specified comprising an elongated casing having its ends open, a continuous strip passed about the front wall of said casing and having a finger piece, by means of which the strip may be operated, a plurality of display cards having their rear portions formed with slots receiving said endless strip, and connecting strips secured to the rear sides of said cards on opposite sides of said endless strip.

3. A device of the character specified comprising an elongated casing having its ends open, a continuous strip passed about the front wall of said casing and having a finger piece, by means of which the strip may be operated, a plurality of display cards having their rear portions formed with slots receiving said endless strip, connecting strips secured to the rear sides of said cards on opposite sides of said endless strip, and a reinforcing member secured to the front wall of said casing and surrounded by said endless strip, said cards being adapted to be received within said casing.

CLARENCE E. SHAW.