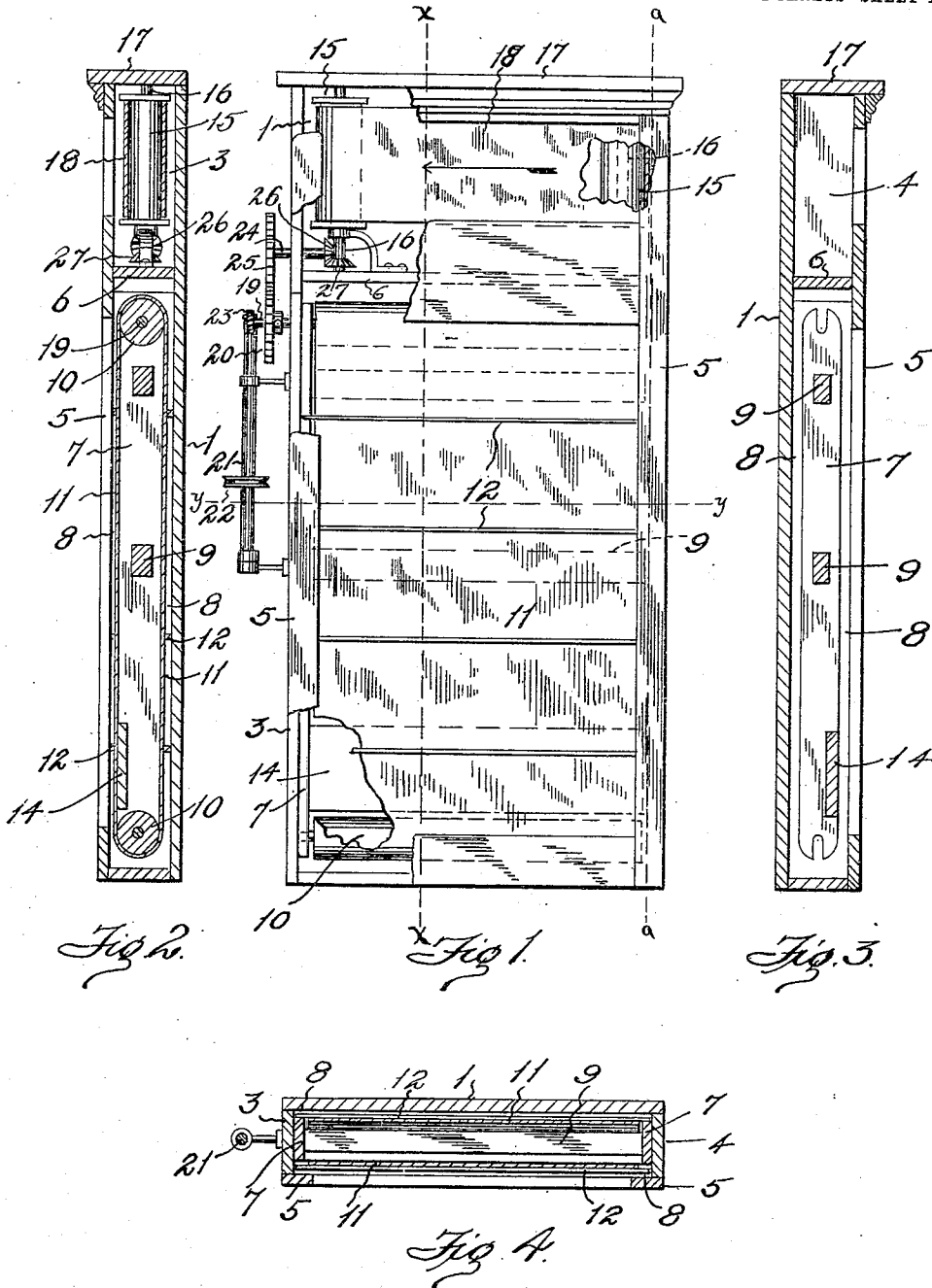


W. B. WILLIAMS.
CHANGEABLE EXHIBITOR.
APPLICATION FILED JAN. 29, 1908.

931,910.

Patented Aug. 24, 1909.

2 SHEETS—SHEET 1.



WITNESSES:

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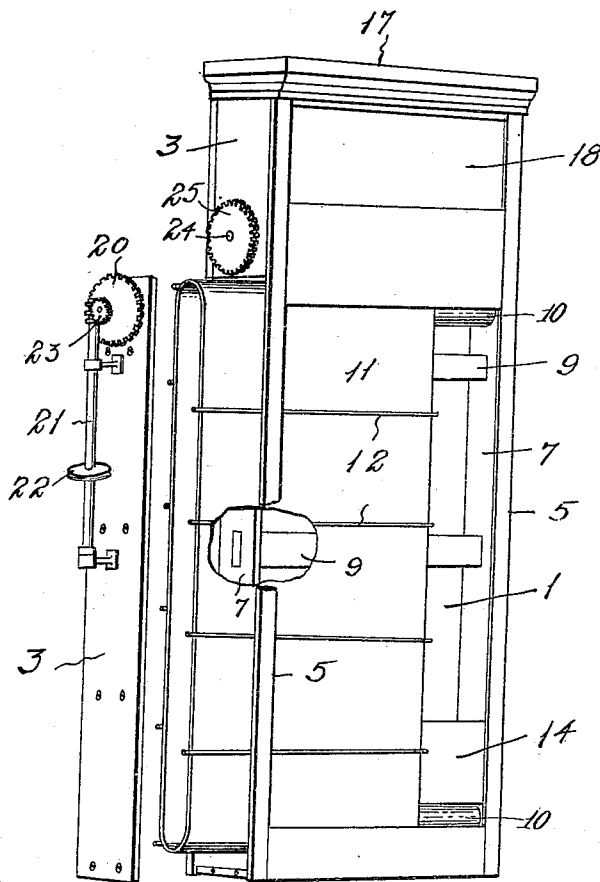


Fig. 5.

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CHANGEABLE EXHIBITOR.

931,910.

Specification of Letters Patent.

Patented Aug. 24, 1909.

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To all whom it may concern:

Be it known that I, WINFIELD B. WILLIAMS, a citizen of the United States, residing at Waxahachie, in the county of Ellis and State of Texas, have invented certain new and useful Improvements in Changeable Exhibitors, of which the following is a specification.

My invention relates to new and useful improvements in display or exhibiting devices and more particularly to a changeable exhibitor.

The object of the invention is to provide an exhibitor comprising moving webs, one traveling vertically and the other horizontally, and both traveling at the same rate of speed.

Another feature resides in means for guiding the vertical web and for removing the same; also a marking board forming a support for the web to assist in the placing of symbols, designs, and other matter, thereon.

Finally the object of the invention is to provide a device of the character described that will be strong, durable and efficient, and simple and comparatively inexpensive to construct, also one in which the several parts will not be liable to get out of working order.

With the above and other objects in view, the invention has relation to certain novel features of construction and operation, an example of which is described in the specification and illustrated in the accompanying drawings, wherein:

Figure 1 is a front elevation, broken away to illustrate underlying parts. Fig. 2 is a transverse vertical sectional view taken on the line $x-x$ of Fig. 1, and looking in the direction of the arrow. Fig. 3 is a similar view taken on the line $a-a$ of Fig. 1, and looking in the direction of the arrow, the webs and rollers being removed, Fig. 4 is a horizontal section view, taken on the line $y-y$ of Fig. 1, and Fig. 5 is a perspective view showing the side removed, but with the gears in position, also broken away to show the guide plate.

In the drawings the numeral 1, designates the rear wall of a vertical casing, having sides 3 and 4 and facing strips 5 secured to the latter.

The casing is divided by a horizontal partition 6 nearer its upper end. Supporting and guide plates 7 are arranged in the cas-

ing, bearing against the inner faces of the sides 3 and 4 and terminating a short distance below the partition 6. The plates are provided with rounded ends and positioned between the rear wall 1 and the facing strips 5, so as to form a continuous runway 8, which will be hereinafter referred to.

The plate adjacent to the removable side 3 of the casing is rigidly secured to horizontal cross bars 9, the other extremities of said cross-bars being rigidly fixed to the irremovable side 4 of casing; the plate adjacent to the irremovable side 4 of the casing is rigidly attached thereto. The extremities of both plates are bifurcated to receive the journals of horizontal rollers 10. An endless web 11 is passed over the rollers, the latter being of such diameter as to cause the vertical edges of the web to register with the runway. Stiffening and spacing rods 12 secured to the face of the web have their ends projecting into the runway, the latter thus forming a guide for the web.

I prefer to form the web of what is known as "black-board cloth" and upon which symbols and characters may be placed by chalk and the like. However display cards and other devices may be suitably secured to the face of the web if desired. The rods 12 act to divide the web into a plurality of horizontal spaces, so as to separate the matter placed thereon. Between the plates and just above the lower roller, a marking board 14 is secured with its vertical face flush with the front edges of the plates. The front "run" of the belt passes in such close proximity to this board, that in marking on the web, the board forms a support for the same. The side 3 is secured to the casing and the plate 7 so that it can be removed, leaving the plate 7 fastened to the cross-bars 9 and the board 14, thereby permitting the web to be removed laterally from the rollers when it is desired.

Vertical spools or flanged rollers 15 fixed on shafts 16 having bearings in the partition 6 and the top 17 of the casing, are arranged at each side of the latter above the partition. These spools support a horizontal web 18, which may be of "black-board cloth" or other material as desired.

One of the novel features of the exhibitor is the manner of driving the webs. In carrying out this feature, the upper roller 10 is provided with a shaft 19 extending through

the side 3 as shown in Fig. 1. A spur gear 20 is fixed on this shaft outside of the casing; while a worm gear 23 fixed on the outer end of the shaft is driven by a worm shaft 21 5 carrying a pulley 22 and supported vertically on the side 3. Motion is imparted to the shaft 19 to cause the gear 20 and the upper roller 10 to revolve toward the rear of the casing, thus causing the front "run" 10 of the web 11 to travel upward.

A counter shaft 24 suitably supported in the side 3 above the partition carries a gear 25 on its projecting end. This gear has the same diameter as the gear 20 and meshes 15 therewith, thus being revolved toward the front of the casing. On its inner end, the shaft 24 carries a miter gear 26 which meshes with a miter gear 27 of the same diameter and mounted on the shaft 16 of the 20 left hand spool with relation to Fig. 1. This causes the spool to revolve to left and the web 18 to travel in that direction.

It will be noted that the miter gears 26 and 27 being of the same diameter and also the 25 gears 20 and 25 being of equal diameters, the shafts 23 and 16 are revolved at the same rate of speed, the webs 11 and 18 thus traveling at the same rate of speed and at right angles to each other.

30 Other means for driving the webs may be employed, but I wish to call attention to the fact that the webs running vertically and horizontally will be more attractive. The horizontal web may be omitted if desired and 35 the vertical belt alone used.

What I claim, is:

1. In a changeable exhibitor, a casing, guide plates mounted in the casing, rollers mounted at each end of the guide plates, and an endless web traveling over the rollers carrying rods passing around the guide plates. 40

2. In a changeable exhibitor, a casing having one of its sides removable, guide plates within the casing contacting with sides, means for supporting the guide plates when 45 the side is removed, rollers having bearing in the ends of the guide plates, an endless web passing over the rollers, and rods carried by the web projecting beyond the edges of the same and traveling about the guide 50 plates.

3. In a changeable exhibitor, a casing having one of its sides fixed and the other removable, guide plates arranged in the casing and rigidly connected, one of the guide 55 plates being secured to the fixed side, the removable side being attached to the other guide plate, a marking board arranged between the guide plates, a roller mounted in each end of the guide plates, and an endless 60 web passing over the rollers and carrying guiding means traveling about the guide plates.

In testimony whereof I have signed my name to this specification in the presence of 65 two subscribing witnesses.

WINFIELD B. WILLIAMS.

Witnesses:

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E. V. HARDWAY.