

Dec. 8, 1931.

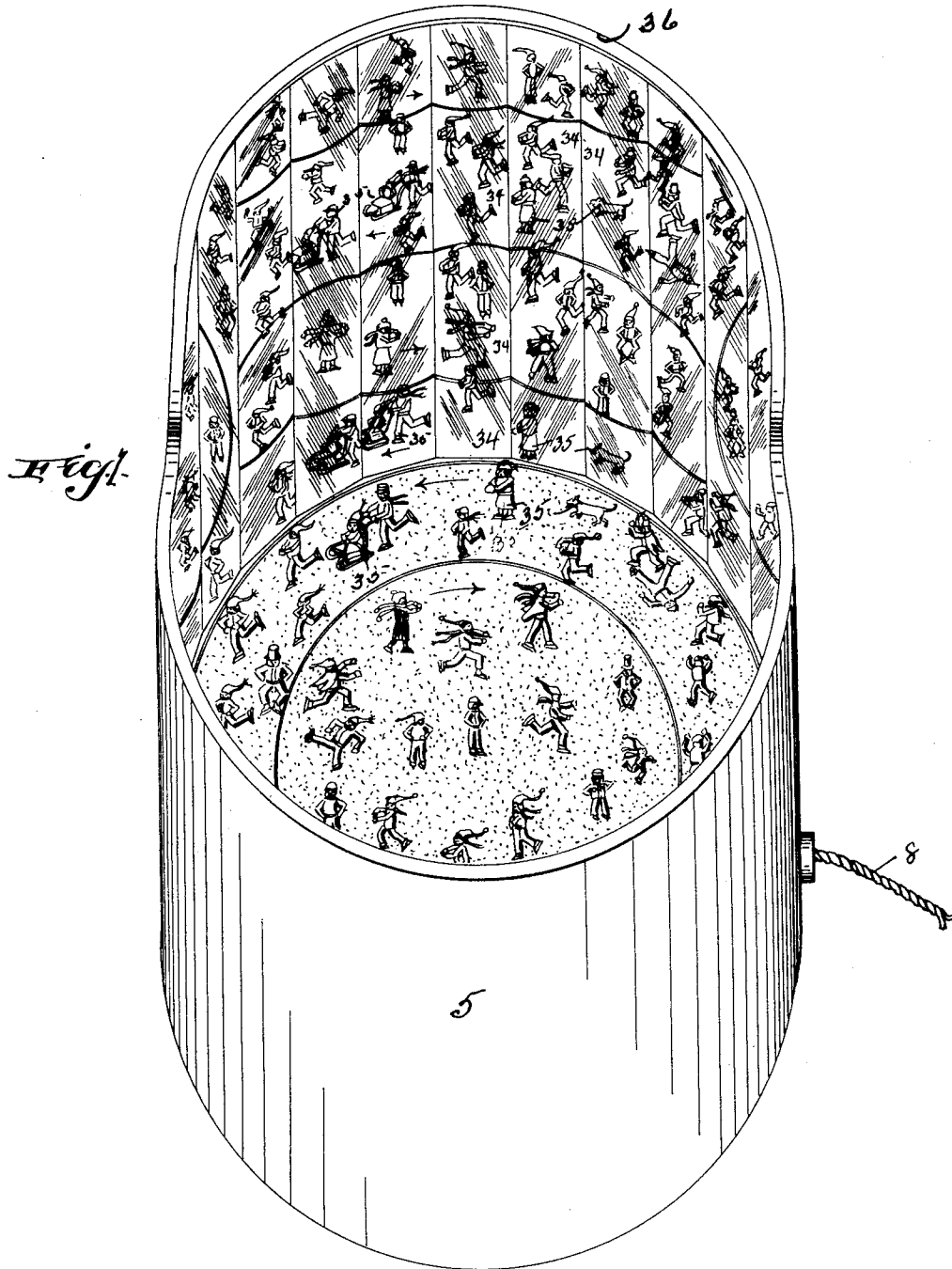
J. H. J. JENKINS

1,835,876

MECHANICAL DISPLAY DEVICE

Filed June 8, 1929

3 Sheets-Sheet 1



BY *Joseph H. Jenkins* INVENTOR
J. Z. Howling ATTORNEY

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J. H. J. JENKINS

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3 Sheets-Sheet 2

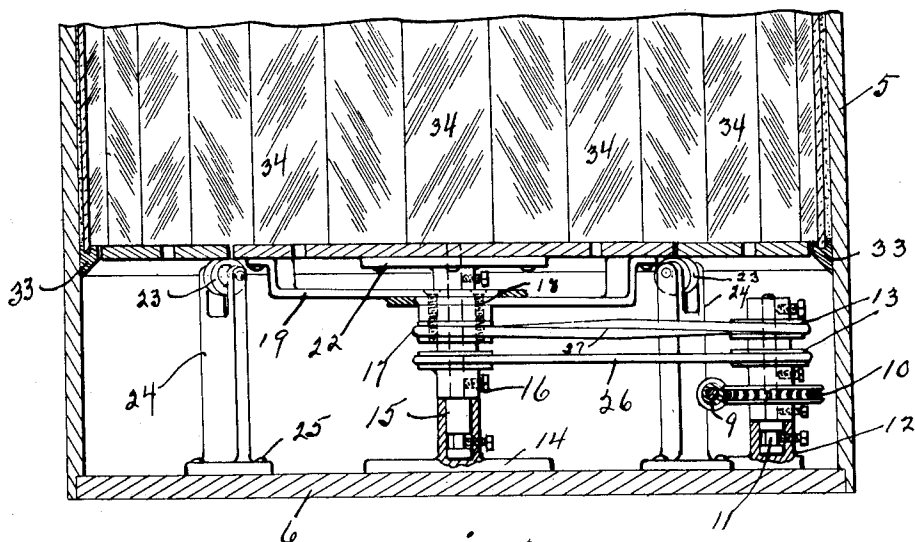
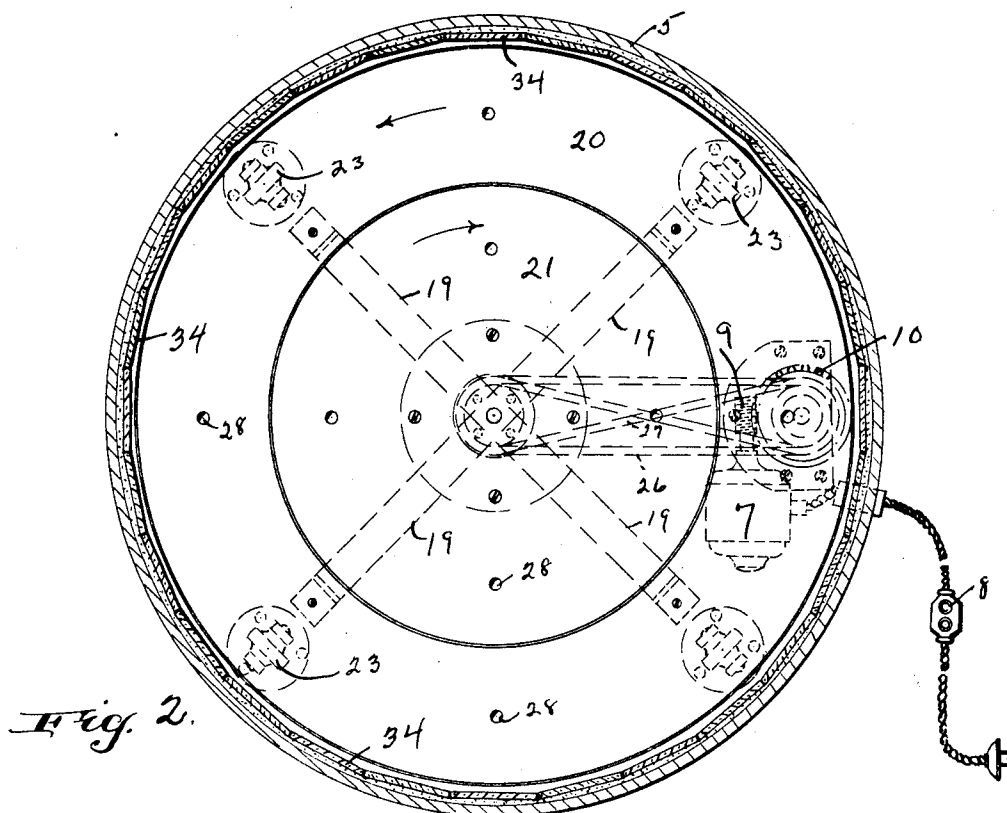


Fig. 3-

 BY

INVENTOR
Joseph H. Jenkins
J. S. Dowling
ATTORNEY

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J. H. J. JENKINS

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3 Sheets-Sheet 3

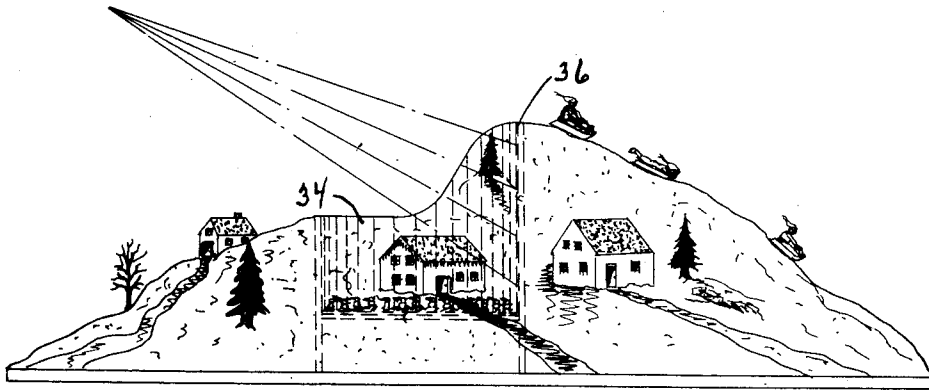


Fig. 4-

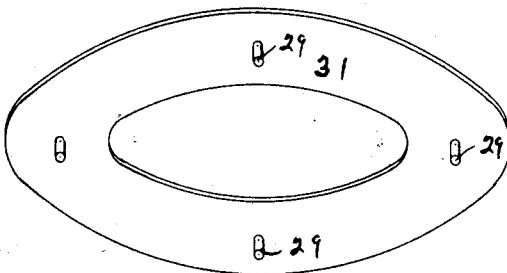


Fig. 6.

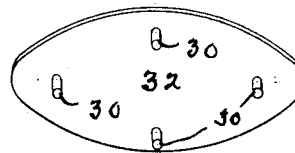


Fig. 5-

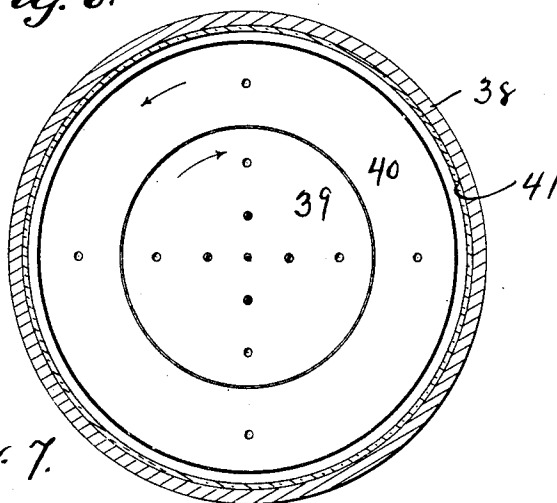


Fig. 7.

INVENTOR
BY Joseph H. J. Jenkins
J. I. Dowling
ATTORNEY

UNITED STATES PATENT OFFICE

JOSEPH H. J. JENKINS, OF BALTIMORE, MARYLAND, ASSIGNOR TO WARREN V. JENKINS, OF BALTIMORE, MARYLAND

MECHANICAL DISPLAY DEVICE

Application filed June 8, 1929. Serial No. 369,312.

This invention relates to certain new and useful improvements in a mechanical display device and has for its principal object the provision of a mechanically operated turn table embodying rotating tables concentrically mounted and adapted for rotation in opposite directions and equipped with figures surrounded by mirrors, wherein the figures of the tables may be displayed in series by the mirrors.

A further object of this invention is the provision of a mechanical display device particularly adapted for Christmas gardens or for other decoration purposes, and has for its object the provision of rotatable concentrically mounted tables carrying series of figures, which tables are surrounded by panels of mirrors, whereby the figures of the tables may be displayed in series and the movement thereof reflected by the mirrors during the rotational movement of said tables.

A still further object of this invention is the provision of a mechanical display device equipped with rotating tables for motion in opposite directions, having secured thereto on the upper face thereof, certain figures and a mirrored surface surrounding said tables so as to reflect the figures and the movements thereof during the rotational action of said tables.

With these and other objects in view, the invention consists in certain novel features, combination and arrangement of parts as will be hereinafter, more fully described, pointed out in the accompanying drawings, and claimed.

In the drawings,

Figure 1 is a front elevational view of my improved display device, as made in accordance with my invention;

Figure 2 is a transverse sectional view of my invention, illustrating the rotatable tables with the figures removed;

Figure 3 is a vertical transverse sectional view of my improved display device with the figures removed;

Figure 4 is a side elevational view, illustrating the display device as mounted in a

Christmas garden, showing the decorative features and assembly from the outside;

Figure 5 is a perspective view of the inner figure carrying disc;

Figure 6 is a perspective view of the outer figure carrying disc showing its opening to concentrically receive the inner disc illustrated in Figure 5, and each of the discs being equipped with pinions whereby they may be secured to the rotating tables; and,

Figure 7 is a fragmentary sectional view, illustrating a modified form of the invention, by disclosing the mirrored surface as a continuous piece instead of being in sectional panel construction.

Referring to the drawings, the numeral 5 indicates a casing having a supporting bottom wall 6, on the inner face of which is mounted a suitable motor 7 having a source of power 8, and this motor is equipped with a worm 9, which has contact with a gear 10 mounted to a shaft 11 journaled in a standard 12 on the platform 6. This shaft 11 has secured thereto, a pair of relatively spaced drive pulleys 13, the purpose of which will be hereinafter more fully described.

Mounted centrally upon the platform 6 on the inner face thereof, is a bearing 14, which has mounted therein a shaft 15. This shaft has fixed thereto, a pulley 16, and loosely mounted thereon above the fixed pulley 16, is a pulley 17, and this pulley 17 is secured by suitable fastening means 18, to the intersecting table supporting arms 19, and secured to the terminals of the arms 10 is an outer rotating table 20. Concentrically mounted within the table 20 is a table 21, which is secured to the shaft 15 by virtue of the plate 22, and this table 21 is rotated with said shaft upon rotational motion to the pulley 16.

The outer table 20 is supported in even plane by roller bearings 23 mounted in suitable brackets 24 secured to the platform 6, as at 25. A suitable belt 26 is secured to the pulley 16 and lowermost pulley 13, respectively, while a belt 27 suitably crossed is secured to the uppermost pulley 13 and the pulley 17, respectively.

It can be readily seen that when the motor is energized its worm 9 will be rotated,

transmitting motion to gear 10, through shaft 11, to pulleys 13, through pulleys 13 to 16 and 17, respectively, thus to tables 20 and 21, respectively, and by virtue of the cross belt 27 the tables 20 and 21, respectively, will be rotated in opposite directions.

The tables 20 and 21, respectively, are equipped with suitable openings 28, to receive therein lugs 29 and 30, respectively, of the figure carrying discs 31 and 32, respectively, these lugs entering the openings 28, so that the discs 31 and 32, respectively, are in contact with the tables 20 and 21, respectively, to be rotated simultaneously therewith.

The casing 5 is provided on its interior, adjacent the bottom wall 6 thereof, with a supporting flange 33, which is adapted to receive a plurality of sectional vertically disposed mirrored panels 34, throughout its entire interior area. These mirrored panels 34 are arranged in a parabolic position and are for the purpose of reflecting the surfaces of the discs 31 and 32, respectively, as they are rotated by virtue of the motor 7.

The discs 31 and 32, respectively, have secured to their upper side, given figures 35, as clearly illustrated in Figure 1, and these figures are so separated as to give an absolute vision of moving objects when the tables are rotated, and these figures are reflected in series by the mirrored panels 34, as clearly illustrated in Figure 1 of the drawings.

The mirrored panels 34 extend around the entire circumference of the casing 5, and one-half of said casing 5 has the mirrored panels extending upwardly for a distance twice the length of the other half, as at 36, the purpose being to permit the device to be set down in a garden surface, as illustrated in Figure 4, and the reflecting surfaces be given at various points. However, there is no limitation as to the construction of the mirrored surfaces.

It can be readily seen that when the device is assembled, and the figure carrying discs are mounted on the tables and the motor energized, that the tables and discs will be operated in opposite directions, and the figures carried by the discs reflected in the mirrors 34 will give the appearance of the figures passing one another during the rotational movement thereof.

Referring to the modification illustrated in Figure 7, the structure is identical with that in the preferred form in that it is provided with a casing 38 equipped with rotating tables 39 and 40, respectively, and the interior of the casing 38 is provided with a continuous mirrored surface 41, the only difference between the modification and the preferred form being the use of a continuous mirrored surface instead of a series of panels.

Having thus described my invention, what I claim as new is:

1. In combination with a scenic structure

for use in a Christmas garden a display device comprising a casing, reflecting surfaces on the interior of said casing, oppositely rotating tables concentrically mounted within said casing and mirrored surfaces, and means for rotating said tables, as and for the purpose as hereinbefore described.

2. A display device comprising a casing said casing being fully open at its top and the back portion of which extends substantially higher than the front portion of same for the purpose of more readily observing the reflected moving objects in a mirrored surface on the interior of said casing, concentrically mounted oppositely rotating tables located within the casing and mirrored surfaces, figures mounted upon said tables, and means for rotating said tables for reflecting said figures in said mirrors.

3. A display device particularly adapted for use in Christmas gardens comprising a casing, said casing being fully open at the top thereof having a low front wall and a substantially higher rear wall for the purpose of more readily observing reflected objects in the interior of said casing, said casing having a mirrored interior surface, concentrically mounted oppositely rotating tables located within the casing and its mirrored surface, figure carrying discs mounted on said tables, figures secured to said discs, and reflected by said mirrored surface, and means for rotating said tables and discs whereby said figures may be reflected by said mirrored surface as moving over said surface.

In testimony whereof I hereunto affix my signature.

JOSEPH H. J. JENKINS.