Jan. 27, 1925. 1,524,615

C. A. DIEDERICHS

CHILD'S PLAYGROUND GAME

Filed Nov. 5, 1923 2 Sheets-Sheet 1

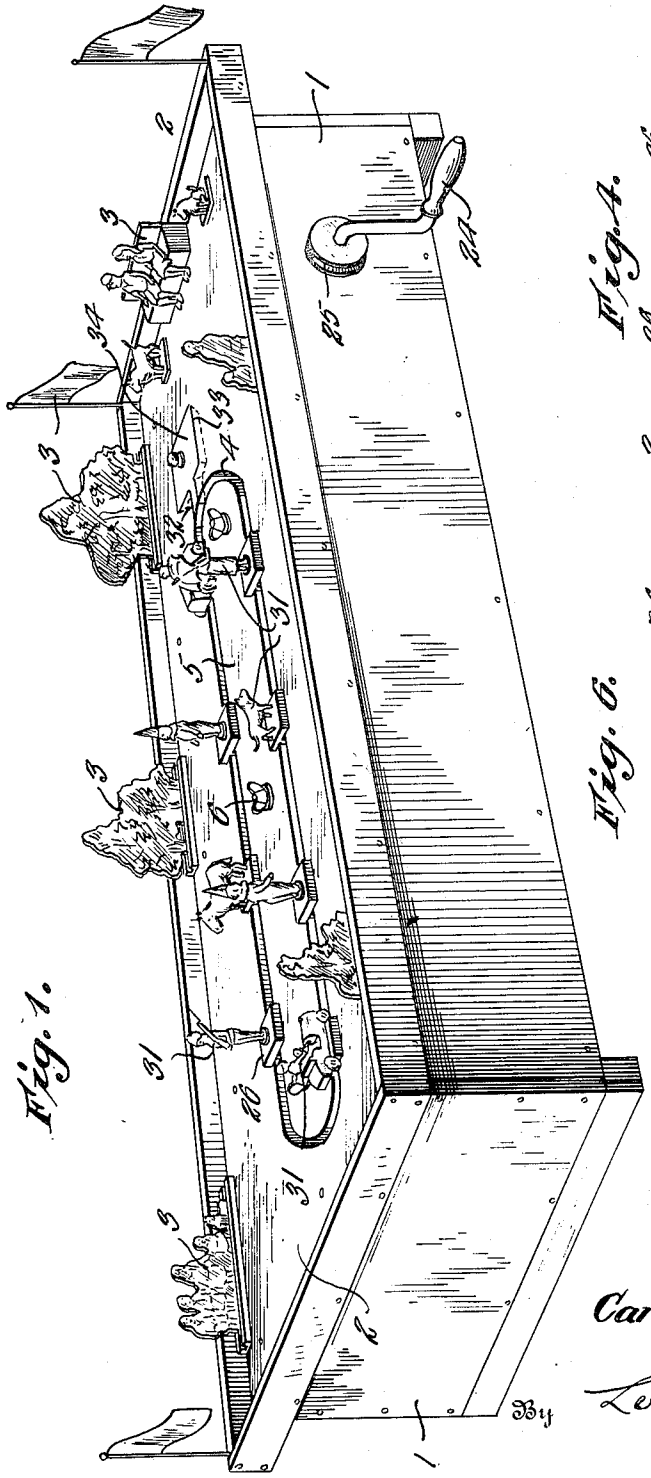


Fig. 1.

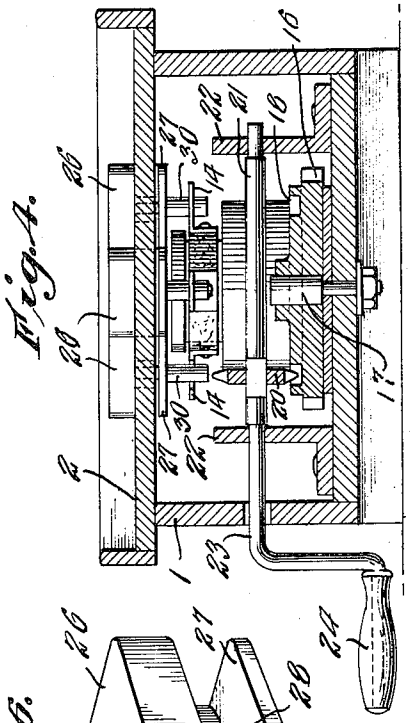


Fig. 4.

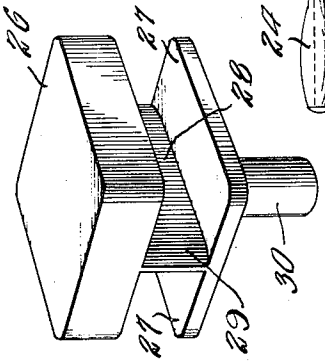


Fig. 6.

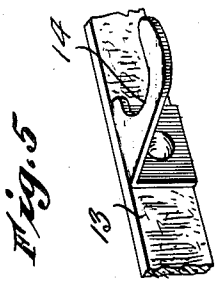


Fig. 5

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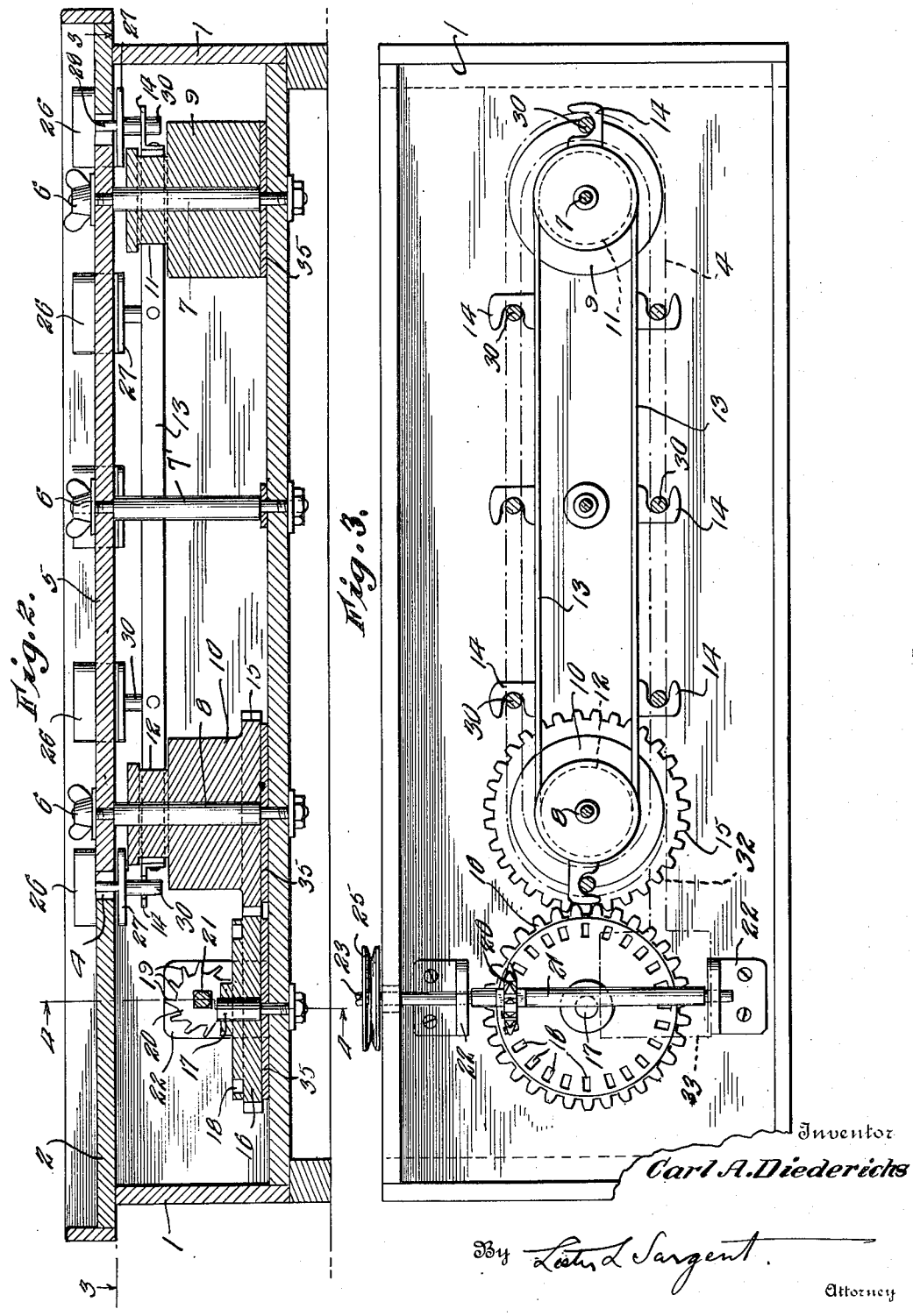


Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE

CARL A. DIEDERICHS, OF PITTSBURGH, PENNSYLVANIA.

CHILD'S PLAYGROUND GAME.

Application filed November 5, 1923. Serial No. 672,815.

To all whom it may concern:

Be it known that I, CARL A. DIEDERICHS, a citizen of the United States, residing at East Liberty, Pittsburgh, county of Allegheny, and State of Pennsylvania, have invented new and useful Children's Playground Games, of which the following is a specification.

The object of my invention is to provide a novel and interesting game for children having the novel combination and arrangement of parts disclosed in the accompanying drawings, in which—

Figure 1 is a perspective view of my invention;

Fig. 2 is a longitudinal vertical section of same with the ornamental toy figures detached;

Fig. 3 is a horizontal section on line 3—3 of Fig. 2;

Fig. 4 is a transverse vertical section on line 4—4 of Fig. 2;

Fig. 5 is a detail perspective view of member 14; and

Fig. 6 is a detail perspective view of one of the removable play blocks.

Like numerals designate like parts in each of the several views.

Referring to the accompanying drawing, I provide a box 1 having a tray top 2 to which are attached suitable decorative or fanciful figures and devices to give the top the appearance of a children's playground. I provide an elongated slotted portion in top 2 in which is positioned a removable center portion of suitable size to provide a channel intervening between this center portion and the main body of the table top. Portion 2 is secured to stub shafts 7, 7′ and 8 by means of thumb screws 6, permitting of its removal to obtain access to the interior of box 1.

I provide a spindle 9 on shaft 7 and a spindle 10 on shaft 8. Spindle 9 has a grooved pulley portion 11 and spindle 10 has a similar grooved pulley portion 12 over which runs a belt 13. Belt 13 carries spaced lateral hooks 14 adapted to engage the depending pin 30 of play blocks 26, which play blocks have a vertical web 28 and a lower horizontal block portion 27 corresponding in shape with the main portion 26 of the play block. The ends 29 of web 28 are rounded to facilitate operation of the block which travels in the channel or slot 4 of the tray top 2, the portions 26 and 27 of the block engaging over and under, respectively, the portions of members 2 and 5 adjacent the slot 4.

Pulley 10 is provided with a gear 15 which meshes with a similar gear 16 mounted on stub shaft 17. Gear 16 also is provided with a series of annularly arranged spaced apertures 18 to receive the slanting teeth 19 of a star wheel 20 which is mounted on horizontal shaft 21, which shaft terminates in the crank 24. Mounted on the shaft 21 exterior to the box 1 is a pulley wheel 25 which may be utilized if it is desired to operate the toy by power instead of manually by the crank handle 24.

Any desired fanciful or decorative toy figures or manikins may be attached to play blocks 26.

I provide an extension slot 32 at one end of the elongated elliptical channel 4, and an enlarged aperture 33 into which slot 32 opens, said openings being of suitable size to permit of the insertion of one of the play blocks 26 to start it on or remove it from its course. I also provide a suitable cover removably seated in openings 33 and 32.

Positioned under members 9, 15 and 16 I provide suitable metal washers to reduce friction of these parts when revolving.

In operating the toy, the cover 34 is removed and blocks are inserted in the opening and moved into the channel 4, the crank 24 being operated, which by means of star wheel 20, gear 18 and gear 15, rotates the spindle 12 and thus operates the belt 13. The hooks 14 extending from belt 13 engage the depending pin of successive play blocks as they are moved into the path of operation of the hooks, thus carrying the play blocks and their decorative figures around the course of channel 4.

For power operation the pulley 25 is belted to a motor or any suitable source of power.

What I claim is:

1. In an amusement device of the class described, the combination of a box having a continuous slot, a removable center piece forming the inner wall of the slot, play blocks slidable in said slot, the play blocks having a vertical web extending through the slot, said web being curved near its side edges to permit its following a rounded course, means adapted to operatively engage the play blocks for operating same,

means for driving the aforesaid play-block engaging means and means adapted to permit the insertion or removal of one play block at a time at the will of the user.

2. As a new article of manufacture for use in an amusement device, a play block comprising spaced block members, the said block members lying in different planes, a vertical web extending between said members, said web having its side edges rounded, a depending pin extending downwardly from the bottom portion of the play blocks, and a miniature figure carried by the uppermost block member.

3. As a new article of manufacture for use in an amusement device, a play block comprising spaced block members, the said block members lying in different planes, a vertical web extending between said members, said web having its side edges rounded, a depending pin extending downwardly from the bottom portion of the lower block member.

4. In an amusement device of the class described, the combination of a box having a tray top, a continuous slot formed therein, play blocks adapted to travel in said slot, each play block having a depending pin, a belt having spaced hooks adapted to engage the respective depending pins, spindles on which said belt is mounted, means for driving one of the spindles manually or by power and the tray top having an extension slot and an enlarged aperture into which the extension opens said openings being of suitable size to permit of the insertion or removal of any of the play blocks.

5. In an amusement device of the class described, the combination of a box having a tray top, a continuous slot formed therein, play blocks adapted to travel in said slot, said play blocks having a depending pin, a belt having spaced hooks adapted to engage the depending pin, spindles on which said belt is mounted, a gear attached to one of the spindles, a second gear meshing with the first mentioned gear, said second gear having a series of annularly arranged spaced openings, a starting wheel having slanting teeth adapted to engage in said openings to drive the gear in one direction only, and a shaft on which the crank wheel is mounted, said shaft carrying the crank and pulley for use in operating the device by manual or power means.

CARL A. DIEDERICHS.