

Nov. 5, 1935.

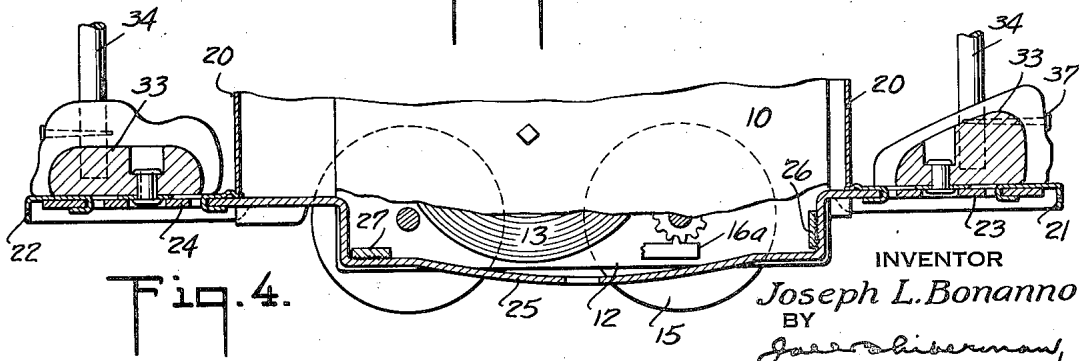
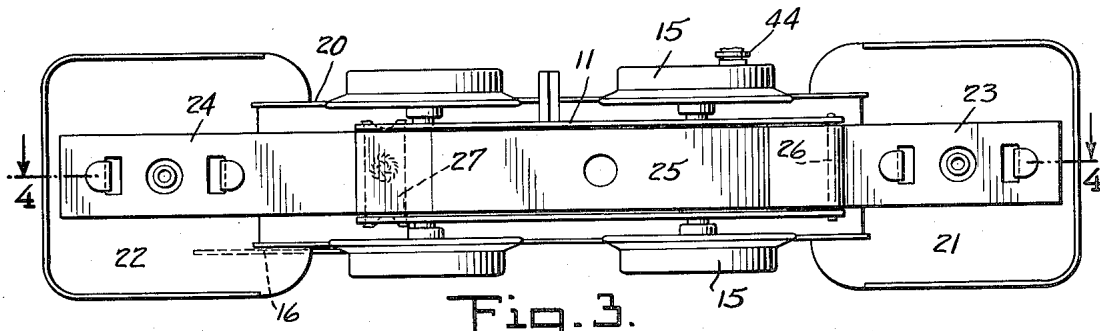
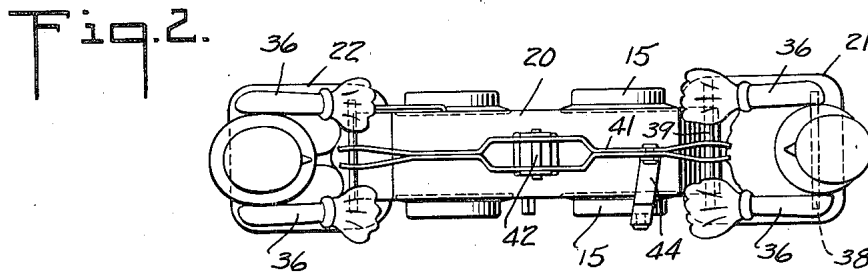
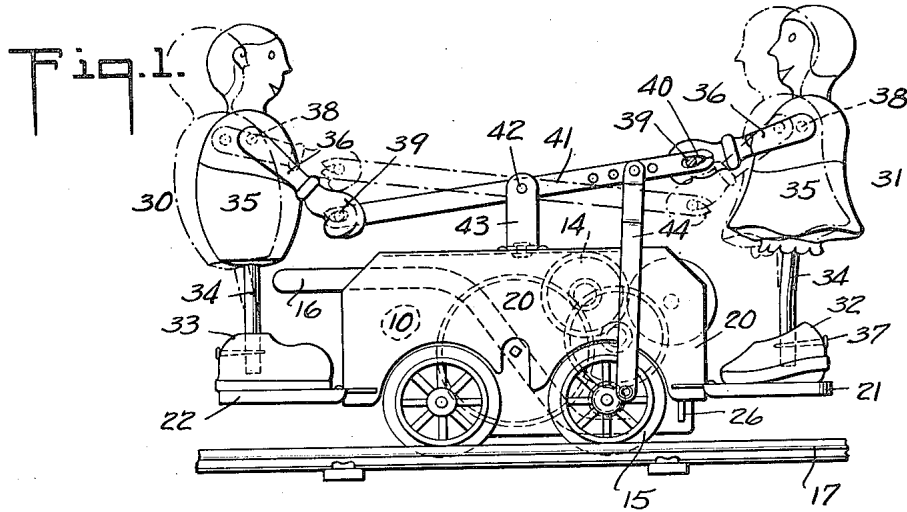
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2,019,651

WHEELED TOY

Filed Feb. 4, 1935

2 Sheets-Sheet 1



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Fig. 5.

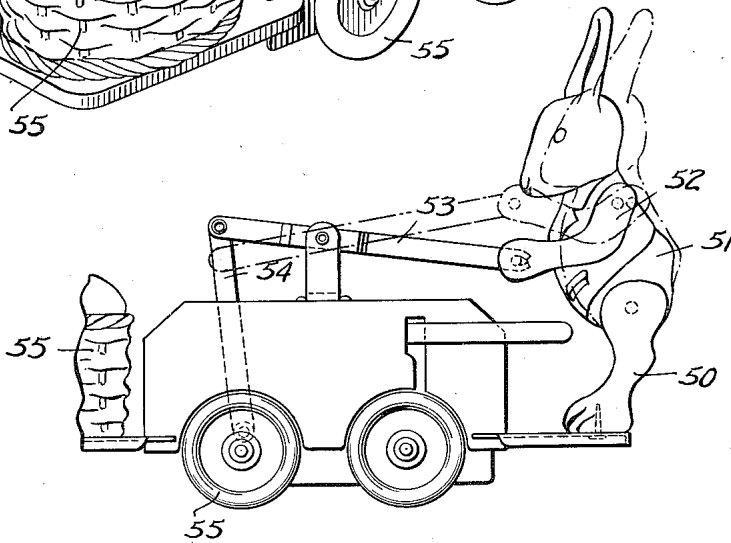
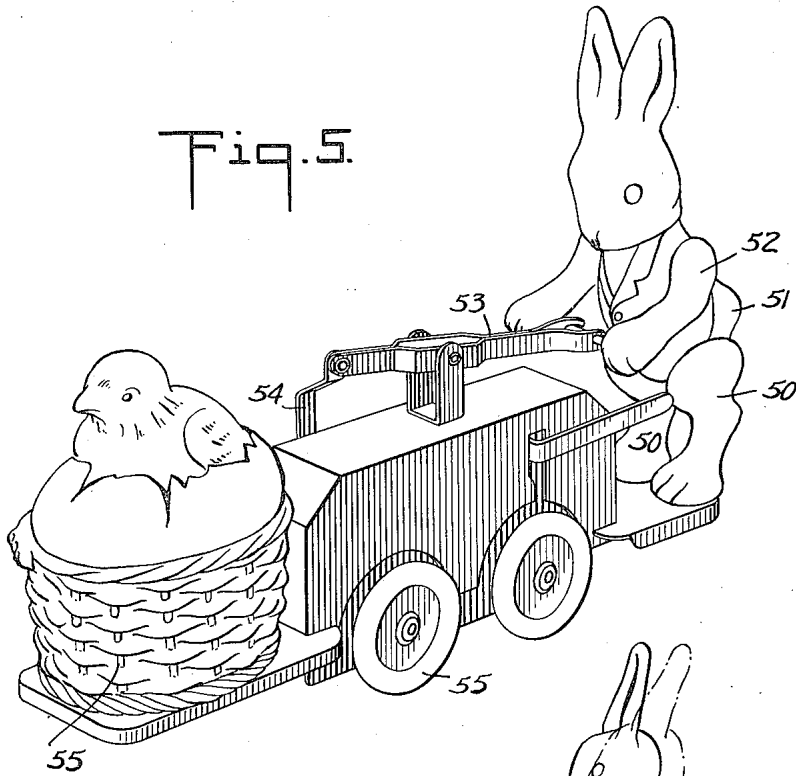


Fig. 6.

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UNITED STATES PATENT OFFICE

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WHEELED TOY

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corporation of New York

Application February 4, 1935, Serial No. 4,743

10 Claims. (Cl. 46—45)

The present invention relates to wheeled toys and is more particularly directed toward wheeled toys designed to simulate hand cars and the like. The present invention contemplates a wheeled toy adapted to run on a track or other support. It is preferably propelled by a wind-up spring motor although it may be propelled by an electric motor when used on a toy track such as employed in toy electric railroads.

According to the present invention the toy is provided with one or more animated figures which are connected with the driving mechanism of the toy so that the figures are moved back and forth by exposed linkages and have motions simulating the motions of the operator of a hand car.

The accompanying drawings show, for purposes of illustrating the present invention, two of the many embodiments in which the invention may take form, it being understood that the drawings are illustrative of the invention rather than limiting the same. In these drawings:

Fig. 1 is a side elevational view of the toy hand car that can run on a toy track and having two animated figures;

Fig. 2 is a top plan view of the same;

Fig. 3 is an inverted plan view showing structural details at an enlarged scale;

Fig. 4 is a fragmentary vertical view on the line 4—4 of Figure 3;

Fig. 5 is a perspective view showing a modified form of construction; and

Fig. 6 is a side elevational view of a portion shown in Figure 5.

In the drawings a conventional spring motor such as employed in toy locomotives and the like is shown at 10. It has side frames 11 and 12, a propeller spring indicated at 13, a gear train indicated at 14 and a pair of driving wheels 15 operatively connected with the gear train. The brake for the spring motor is indicated at 16, 16a. The motor is adapted to drive the toy along a track indicated at 17.

A sheet metal cover member 20 is folded to shape to cover the top, the ends and the most of the side portions of the propeller unit. It is welded or otherwise secured to two laterally extending platform members 21 and 22. These members are secured to the ends 23 and 24 of a strap member 25, the strap member 25 is welded to the cross members 26 and 27 of the propeller unit. These platform members support animated figures 30 and 31. These figures may take the form of natural or grotesque figures as desired. As here shown the feet for the figures are indi-

cated at 32 and 33, the legs at 34, the bodies at 35 and the arms at 36. The feet and the body may be made out of molded composition and the legs 34 out of lengths of flexible rubber rod secured in place by nails as indicated at 37. The arms 36 are pivoted at 38 and are connected together at the free ends by cross rods 39. These cross rods are received in holes 40 in a rocker arm or lever 41 pivoted at 42 on a support 43 carried by the cover member 20. The rocker arm is connected by a connecting rod or link 44 with one of the driving wheels 15.

When the toy is propelled along the track or support by the spring motor, the wheels 15 revolve and oscillate the rocker arm 41 back and forth as indicated in the full line and the dot and dash line positions of Figure 1. This will cause the arms 36 to swing up and down and will shift the bodies 35 of the figures back and forth. This movement is permitted by the flexibility of the legs 34. The movement of these figures to and fro and the arms up and down is a very close simulation of the operation of a hand car.

The spring motor used in the toy is preferably of the type having no speed limiting governor. The resistance offered by the reversing of the linkages and figures may be utilized as a governor to limit the speed of the toy. Various degrees of governing action may be obtained according to the point on the lever 41 at which the connecting rod 44 is connected.

In the modified form of construction shown in Figures 5 and 6 the device is substantially that shown in Figures 1 to 4 except that one figure only of different form is employed, and a cargo is mounted on the other platform. In this construction the animated figure is in the form of a rabbit having permanently fixed legs 50, a pivoted body 51 and pivoted arms 52. The arms are secured to a rocker arm 53 similar to the rocker arm 41. A connection 54 similar to the connection 44 connects the rocker arm 53 and one of the driving wheels 55. These wheels may be rubber tired so that the device is more adapted for use on the floor. The front or left platform of the figure carries a basket 55 simulating an Easter egg.

It is obvious that the invention may be embodied in many forms and constructions within the scope of the claims, and I wish it to be understood that the particular forms shown are but two of the many forms. Various modifications and changes being possible, I do not otherwise limit myself in any way with respect thereto.

What is claimed is:

1. A wheeled toy having an enclosed body portion, a propulsion motor in the body portion for driving the wheels and propelling the toy, 5 a laterally extending platform carried by the body portion, an animated figure supported on the platform, and exposed figure actuating linkages having connection with a driven part for actuating the figure so that the linkages and 10 figure have a motion such that the figure appears to be driving the toy.
2. A wheeled toy as claimed in claim 1, wherein the figure has rigid legs, a pivoted body and arms pivoted to the body.
- 15 3. A wheeled toy as claimed in claim 1, wherein the figure actuating linkages include a lever arm pivoted to the body portion and to the figure, and a connecting rod between the lever arm and one of the wheels.
- 20 4. A wheeled toy having a body portion, a propulsion motor in the body portion for driving the wheels and propelling the toy, a laterally extending platform carried by the body portion, an 25 animated figure supported on the platform, the figure having a movable body and arm members carried by the body and pivoted on a horizontal axis, a lever arm pivoted to the body portion and to the arm members, and a wheel operated link connected to the lever arm to swing it up and 30 down so that the body of the figure is oscillated back and forth.
5. A wheeled toy having a body portion, a propulsion motor in the body portion for driving the wheels and propelling the toy, two laterally 35 extending platforms carried by the body portion, an animated figure supported on each platform, and exposed figure actuating linkages having connection with a driven part for actuating the figures so that the linkages and figures 40 have a motion such that the figures appear to be driving the toy.
6. In a wheeled toy, a propulsion unit having a spring motor drivingly connected with the wheels, a cover member about the propulsion unit, said cover member having a laterally extending platform, and a supporting strap secured to the platform and to the propulsion unit. 5
7. A wheeled toy as claimed in claim 6, having a rocking lever secured to the top of the cover member and connected to one of the wheels to be rocked thereby, and a figure on the platform and 10 connected to the lever to be moved back and forth thereby.
8. In a wheeled toy, an enclosed body portion, a propulsion unit within the body portion and having a spring motor drivingly connected with 15 the wheels, a rocking lever, a connecting rod connecting one of the wheels and the lever to rock the lever, a support at one side of the body portion, and an animated figure on said support and connected to the lever to be moved back 20 and forth thereby, the resistance of the wheel driven parts offering opposition to the unwinding of the spring motor and limiting the speed of the toy.
9. A wheeled toy as claimed in claim 8, where- 25 in the point of connection of the rod and lever is variable to vary the speed of the toy.
10. A wheeled toy having a body portion, a propulsion motor on the body portion for driving the wheels and propelling the toy, a laterally 30 extended platform carried by the body portion, an animated figure supported on the platform and having flexible leg-like members, a rigid body above the leg-like members and swinging arm-like members, and exposed figure actuating 35 linkages having connection with a driven part for actuating the figure so that the linkages and figure have a motion such that the figure appears to be driving the toy.

JOSEPH L. BONANNO. 40