Sept. 4, 1923. 1,467,216

S. J. A. WIEBE.

FIGURE TOY ROUNDABOUT

Filed March 30, 1921

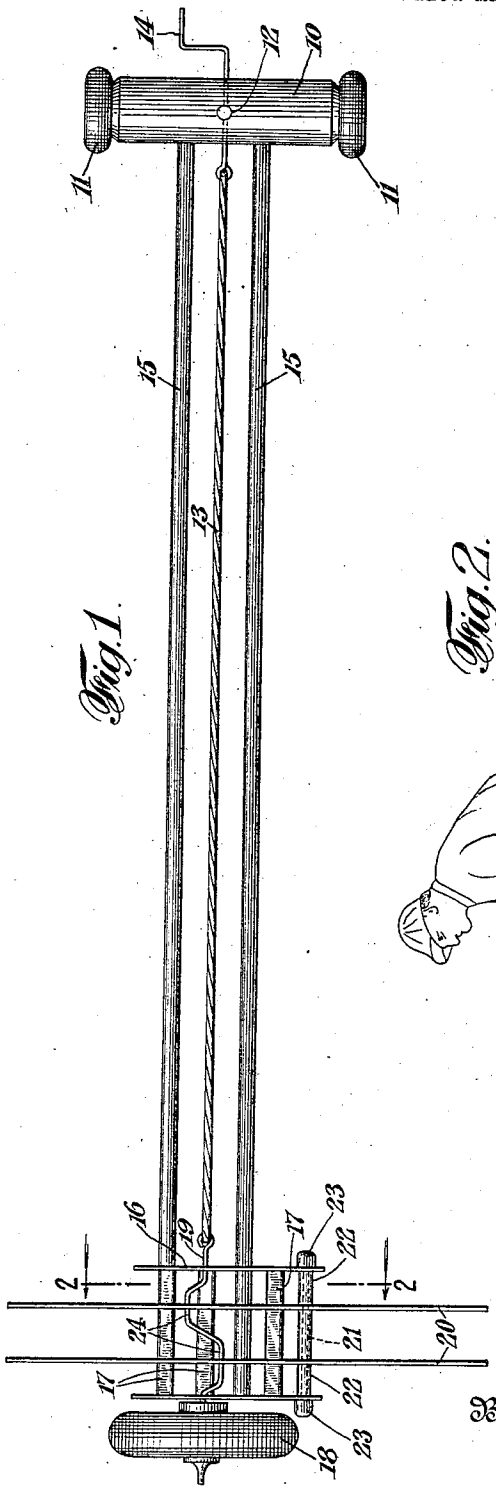


Fig. 1.

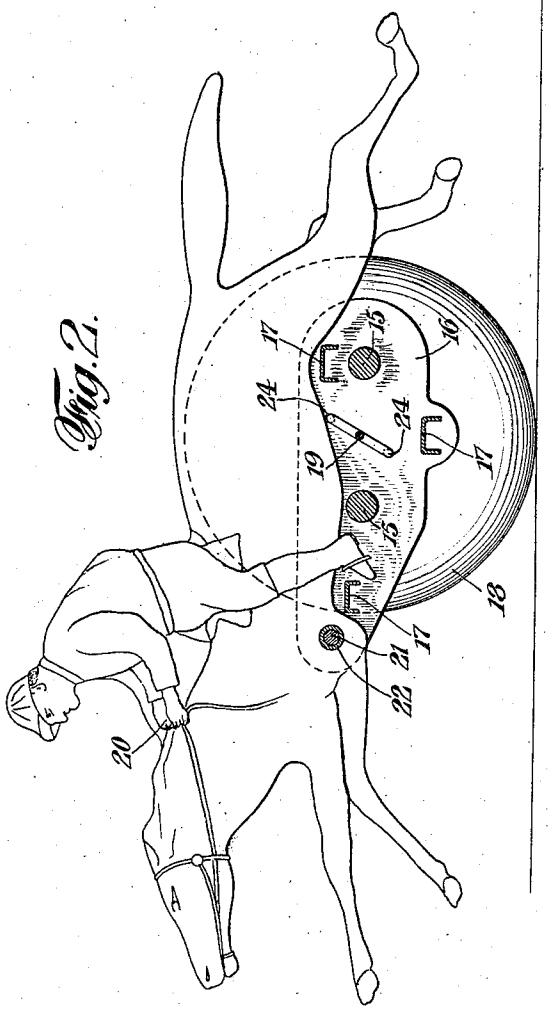


Fig. 2.

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UNITED STATES PATENT OFFICE.

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FIGURE TOY ROUNDABOUT.

Application filed March 30, 1921. Serial No. 456,899.

To all whom it may concern:

Be it known that I, SIGURD J. A. WIEBE, a subject of the King of Sweden, and a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Figure Toy Roundabouts, of which the following is a specification.

The invention relates to a toy device, employing a travelling carriage upon which are pivotally mounted disks simulating, for example, an animal as a horse and a rider. The object of the invention is to cause this carriage to travel substantially in a circle and simultaneously therewith to impart to such figures a vertical movement, thereby giving the same the appearance of galloping. A further object of the invention consists in providing a simple construction for effecting the desired results and one in which the parts may readily and conveniently be assembled, also a construction which will permit of the device being dismantled and arranged compactly for shipment.

In the accompanying drawings, which illustrate the invention—

Fig. 1 is a plan of the improved toy.

Fig. 2 is a section taken on the line 2—2, Fig. 1; and looking in the direction of the arrows.

Similar characters of reference designate corresponding parts thruout the several views.

Referring to the drawings, 10 designates a frame member, movably mounted as upon two small wheels 11 secured at the ends thereof; and the same is provided with an upwardly extending rod or hand piece 12 for holding said member during the winding of the motor device, which is shown in the nature of a rubber band 13. The inner end of this rubber motor is secured to a crank 14 which is rotatably mounted in the frame member 10.

Extending outwardly from the frame member 10 is a pair of rods 15, horizontally mounted at either side of the rubber motor 13 and serving thereby to protect same. The rods 15 carry at their outer ends a carriage 16, and pass thru the end plates thereof which are further secured and spaced by a plurality of bars or channels 17. Beyond the carriage 16 and mounted rotatably thereto is a wheel 18, the same being of considerably larger diameter than the wheels 11 and having its axis of rotation at right angles to that of the latter. The shaft 19, to which is secured the wheel 18, extends thru the end plates of the carriage which afford bearings therefor, and the inner end thereof is secured to the outer end of the rubber band 13 comprising the rubber motor. In this manner, by rotating the crank 14, the said rubber band will be contracted and tension put thereon which, when the crank 14 is released, communicates rotation to the said shaft 19 and its wheel 18, causing the entire device to rotate about the movable frame member 10, the carriage running in counter-clockwise direction when the crank is wound in a clockwise direction.

Various vertically movable means may be carried by the carriage 16, for example, wooden or metal disks or the like and simulating, for example, animals as a horse and rider 20, Fig. 2. In the drawing, two sets of figures are shown, and the same are pivotally mounted upon a removable rod 21 passing thru same and the end plates of the carriage. These figures are kept in spaced relationship on the rod and carriage thru sleeves 22 mounted about the said rod, which in turn may be held to the carriage thru friction caps 23. The other end of each of the figures is perfectly free and unattached to the carriage resting, for example, upon one of the bars 17.

It is desirable, also, to cause these figures to simulate a galloping action during the rotation of the carriage; and to this end, the shaft 19 is constructed in the nature of a crank shaft having offsets 24 which are disposed in their action 180° apart and are designed to contact with the respective under edges of the figures. In this manner, as the shaft rotates to turn the wheel 18, the high points of the crank shaft will alternately strike the two figures and cause them to swing about the rod 21 as an axis and thus simulate a galloping action simultaneously with the rotation of the carriage about member 10. It will be appreciated that there is no direct connection between the figures and the shaft, thus greatly simplifying the construction while obtaining the desired end. It permits, also, of the ready dismantling of the figures from the device to render more compact the apparatus, as for shipping purposes. The various

figures, however, are normally firmly held in the carriage; and being pivoted, will return promptly to their normal position as the high point of the crank shaft moves away, resting then on the upper of the bars 17 until the shaft again comes into action.

I claim:—

1. A toy comprising a wheeled frame member adapted to rotate about a relatively fixed point and having a rigid extension, a carriage at the far end of said extension, and a wheel member beyond same in fixed relation to the wheeled frame, a rubber motor mounted in said frame and extension, a crank to wind said rubber motor, a shaft connected with the latter, mounted in said carriage, carrying said wheel and rotatable about an axis at right angles to that of the wheeled frame member, and means pivotally mounted on the carriage and engaged by portions of said shaft and rocked thereby.

2. A toy comprising a wheeled frame member adapted to rotate about a relatively fixed point and having a rigid extension, a carriage at the far end of said extension, and a wheel member beyond same in fixed relation to the wheeled frame, a rubber motor mounted in said frame and extension, a crank to wind said rubber motor, a shaft connected with the latter, mounted in said carriage, carrying said wheel and rotatable about an axis at right angles to that of the wheeled frame member, and means pivotally mounted within the carriage, the high points of the crank shaft being designed to engage therewith to rock same.

3. A toy comprising a wheeled frame member adapted to rotate about a relatively fixed point and having a rigid extension, a carriage at the far end of said extension, and a wheel member beyond same in fixed relation to the wheeled frame, a rubber motor mounted in said frame and extension, a crank to wind said rubber motor, a shaft connected with the latter, mounted in said carriage, carrying said wheel and rotatable about an axis at right angles to that of the wheeled frame member, a rod horizontally supported in said carriage, means thru which said rod passes, said means resting also upon the carriage and being engaged by portions of said shaft to be rocked thereby.

4. A toy, comprising a frame member rotatably mounted and having an extension, a carriage at the far end of said extension and a wheel member beyond same, a rubber motor mounted in said frame, a crank to wind said rubber motor, a crank shaft connected with the latter, mounted in said carriage and carrying said wheel, a horizontally disposed rod removably secured in said carriage, rocking means having a hole at one end thru which said rod is adapted to pass, and spacing sleeves mounted about the rod to determine the position of the rocking means thereon, said means being adapted to rest at the opposite end upon said carriage, the high points of said crank shaft being located between the ends of the said rocking means and adapted to engage same to rock said means about the horizontally disposed rod.

5. A toy, comprising an elongated frame provided at one end with rotatable supporting means to rotate about a relatively fixed point, a wheel at the opposite end, a shaft for said wheel and rotatably mounted in the frame, a figure pivotally mounted in the frame and adapted to be rocked by said shaft, rubber motor means mounted between the ends of the frame and connected with the shaft to actuate same, and means to wind the motor means.

6. A toy, comprising a wheeled frame rotatable about a relatively fixed point, a wheel in fixed relation to said frame, a shaft secured to said wheel and mounted in fixed relation to the wheeled frame, and rotatable about an axis at right angles to the axis of rotation thereof, a figure pivotally mounted in fixed relation to said frame and adapted to be rocked by the shaft, a rubber motor secured at one end to the shaft, and a crank mounted in the wheeled frame, secured to the other end of the motor and adapted to wind same.

7. A toy, comprising a frame member provided at one end with rotatable supporting means to rotate about a relatively fixed point, a carriage connected with said frame member, a shaft rotatably mounted in said carriage, a wheel carried thereby at the other end of the frame member, a figure pivotally mounted in the carriage and adapted to be rocked by the said shaft, a rubber motor secured at one end to the shaft, and a crank mounted in the frame at the rotatably supported end thereof, secured to the other end of the motor and adapted to wind same.

Signed at New York, in the county of New York and State of New York, this 28th day of March, A. D., 1921.

SIGURD J. A. WIEBE.