

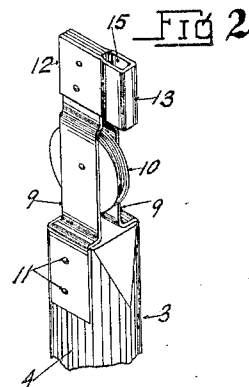
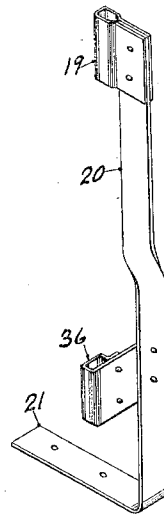
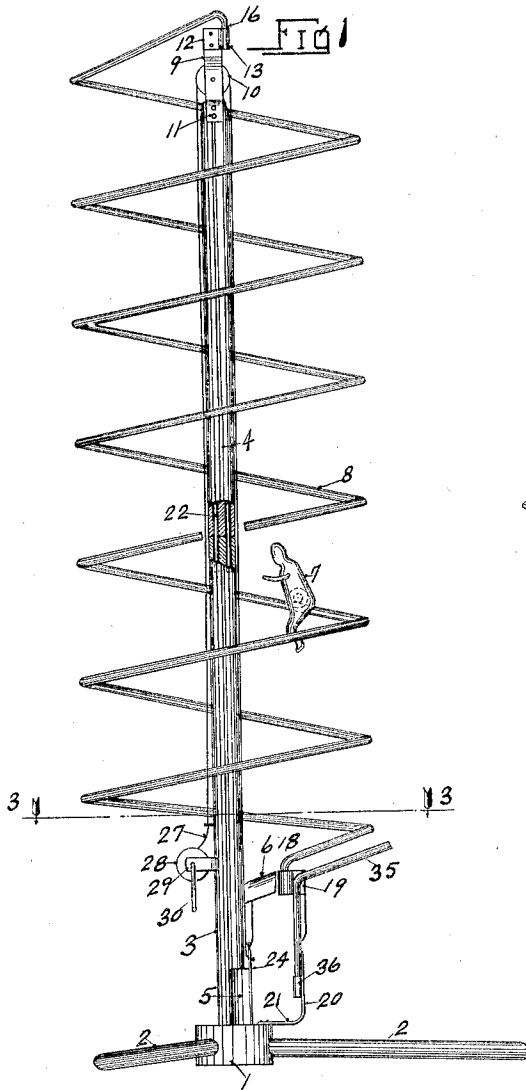
J. A. WALLACE & J. W. MARTIN.
TOY.

APPLICATION FILED FEB. 10, 1911.

Patented Nov. 28, 1911.

2 SHEETS-SHEET 1.

1,009,870.



WITNESSES
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INVENTORS
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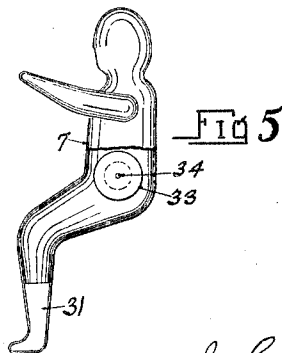
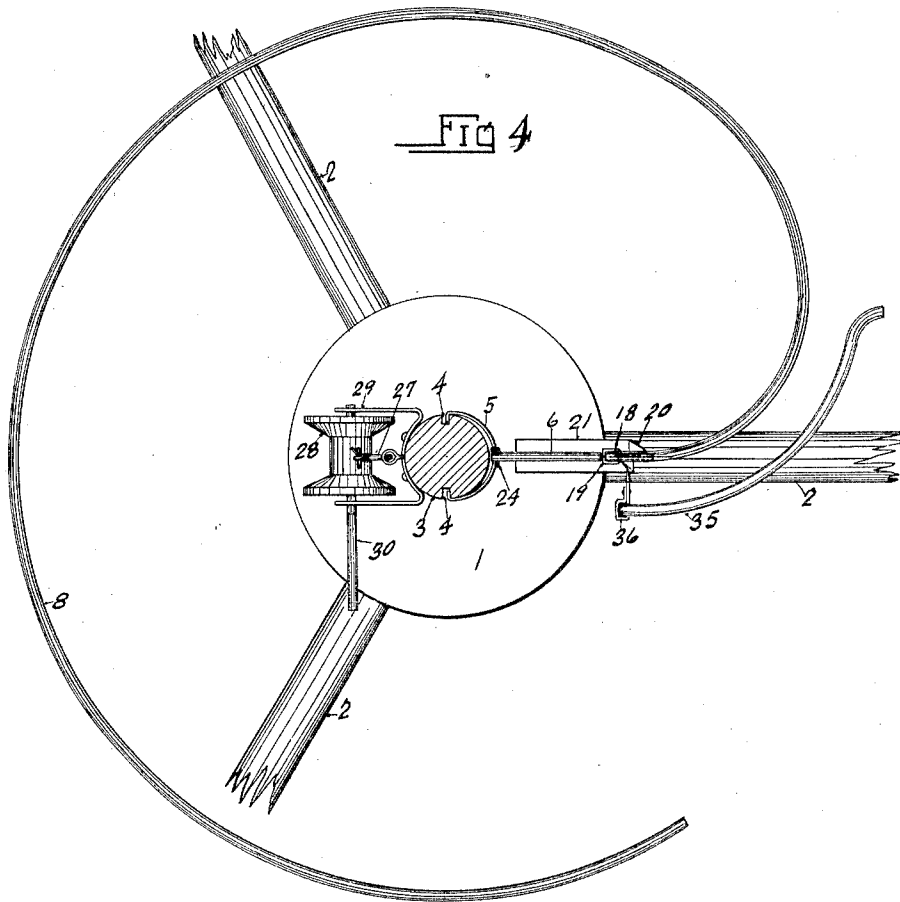
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UNITED STATES PATENT OFFICE.

JOHN A. WALLACE AND JAMES W. MARTIN, OF DARLINGTON, PENNSYLVANIA, ASSIGNORS TO ACME NOVELTY COMPANY, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

TOY.

1,009,870.

Specification of Letters Patent.

Patented Nov. 28, 1911.

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To all whom it may concern:

Be it known that we, JOHN A. WALLACE and JAMES W. MARTIN, both residents of Darlington, in the county of Beaver and State of Pennsylvania, have invented a new and useful Improvement in Toys, of which the following is a specification.

This invention relates to toys and its object is to provide a toy of simple construction which can be operated by any child and which nevertheless gives the child sufficient occupation to keep him interested.

The toy comprises the construction and arrangement of parts hereinafter described and claimed.

In the accompanying drawing Figure 1 is an elevation, partly broken away, of the device; Fig. 2 is a perspective detail view of the upper portion of the mast showing the means for connecting the spiral way thereto; Fig. 3 is a similar view of the support for the lower end of the wire; Fig. 4 is a transverse section on the line 3—3, Fig. 1; and Fig. 5 is in part a side view and in part a sectional view of the body which slides on the spiral way.

The toy comprises a suitable base 1 and is shown having projecting therefrom three feet 2 which give a sufficiently stable support for the device. Rising from the base is the upright or mast 3 which on opposite edges is provided with grooves 4 for receiving the intumed edges of the semi-tubular elevator 5 which is provided with an inclined seat 6 for the body 7 and serves to lift said body from the bottom of the mast to the top thereof.

8 indicates a suitable spiral track or way shown as formed from an ordinary round wire, and down which the body 7 is adapted to slide by gravity. This spiral track has its upper end secured directly in line with the upper end of the mast. As shown, secured to the upper end of the mast are a pair of sheet metal members 9 between which there is mounted a sheave 10. The members 9 are secured to the mast by suitable means, such as by rivets 11, and are also riveted together at 12 above the pulley 10. Riveted to the upper ends of the members 9 is a clip 13 which forms an oblong opening 15 for receiving the flattened portion 16 of the

downturned end of the wire forming the track 8 so that the upper end of the wire is prevented from shifting its position angularly around the mast. The lower end of the spiral track is bent so as to extend substantially radial with reference to the mast, as shown in Fig. 4, and has its end bent downwardly, as at 18, and flattened and inserted in an oblong opening formed by a clip 19 secured to the upper end of the standard 20 which rises from the base 1. The standard 20 is preferably formed from a flat strip of sheet metal having its end bent to form a foot 21 which is suitably secured to the base and being twisted so that the clip 19 which is secured to the flat face thereof lies with its axis substantially radial to the mast. These connections for the upper and lower ends of the track enable the track to be readily removed and collapsed for packing and shipping and to be readily put in place and at the same time hold said ends in position for the reception and delivery of the body 7. To enable the device to be put in compact form for shipment, the mast preferably is formed in two sections, united by the dowel pins shown at 22.

The elevator 5 is a piece of substantially semi-cylindrical metal tubing arranged to drop by gravity. Rising therefrom is a standard 24 provided at its upper end with the seat or saddle 6 for receiving the body 7 and lifting the same to the top of the mast. When the elevator is in its lowermost position this seat or saddle is slightly below the lower end of the track 8, (Fig. 1) and in line therewith, so that the body 7 slides by gravity from the track to the seat or saddle. The seat or saddle is inclined somewhat upwardly away from the mast so that the body naturally slides up against the mast, and is therefore prevented from slipping off the seat while being elevated. Connected to the elevator is a cord 27, or the like, which passes up over the sheave 10 at the top of the mast and then down and winds on a windlass or spool 28 mounted in bracket 29 secured to the mast near its bottom and provided with a crank 30, or the like, for operating the same.

The body 7 may be of any desired design, that shown being a representation of a boy

or man, being bifurcated as shown and having the lower portions of the legs or feet weighted as at 31, such as by filling them with lead, in order to bring the center of gravity down low. This body is preferably formed from stamped sheet metal which is very light. Journaled in the body is a grooved wheel 33 provided with an axle 34 rotatable in the body and forming the support of the body on the wire track so as to reduce friction. The wheel is somewhat above the center of gravity of the body so that the body when supported on said wheel retains an upright position.

To prevent the body from swinging off the lower end of the track when descending at a high velocity, we provide a suitable guard 35 in the form of a wire having one end secured in a clip 36 formed on a bracket extending from the standard 20, said wire extending outwardly along the lower turn of the track 8, as shown in Fig. 4.

In the use of the toy the body 7 is seated on the elevator with its back against the mast and then by operating the crank 30 the cord is wound on the spool and the elevator lifted until its seat is on a level with the upper end of the track 8. The body then slides off the inclined seat and onto the wire track and descends by gravity on said spiral track, and at the lower end slides off of the track onto the elevator. As soon as the body has gotten onto the upper end of the track the user releases the crank and the elevator drops by gravity into position to receive the body by the time the latter has reached the bottom.

The toy described affords children much amusement and gives them sufficient occupation to hold their attention.

What we claim is:

1. A toy comprising a mast or upright provided with guides, a spiral track extending from the top to the bottom thereof, a body arranged to descend on said track, and an elevator engaging the guides on the mast or upright and arranged to receive said body from the lower end of the track and deliver the same to the upper end thereof.

2. A toy comprising a mast or upright provided with guides, a spiral track extending from the top to the bottom thereof, a body arranged to descend on said track, an elevator engaging the guides on the mast or upright and arranged to receive said body from the lower end of the track and deliver the same to the upper end thereof, a drum and a cable for elevating said elevator.

3. A toy comprising a mast or upright, a spiral track extending from the top to the bottom thereof and having its ends radial to its axis, a body arranged to descend on said track, an elevator arranged to lift said body from the bottom of the mast to the top thereof, said elevator being provided with an in-

clined support or seat for the body extending radially to the axis of the spiral track and arranged when elevated to aline with the upper end of the spiral track and when lowered to aline with the lower end of said track.

4. A toy comprising a mast or upright, a spiral track extending from the top to the bottom thereof, a bifurcated body having a support above the center of gravity and arranged to descend on said spiral track, and an elevator arranged to receive said body from the lower end of the track and deliver the same to the upper end thereof.

5. A toy comprising a track, a bifurcated body provided with a roller at its bifurcation and arranged to roll on said track, the ends of the limbs of said body being weighted to bring the center of gravity of said body below said roller.

6. A toy comprising a mast or upright, a spiral track extending from the top to the bottom thereof, a bifurcated body provided with a roller above its center of gravity and arranged to descend on said spiral track, and an elevator arranged to receive said body from the lower end of the track and deliver the same to the upper end thereof.

7. A toy comprising a mast or upright, a spiral wire forming a track and having its upper end detachably secured to the upper end of the mast and its lower end secured detachably near the lower end of the mast, and an elevator arranged to receive a body from the lower end of the spiral wire and deliver the same to the upper end thereof.

8. A toy comprising a mast or upright, a clip secured to the upper end thereof and provided with an oblong opening, a member at the foot of the mast also provided with an oblong opening, a spiral wire having its ends bent vertically and flattened and entering the oblong openings at the bottom and top of the mast respectively and forming a track, and an elevator arranged to receive the body from the lower end of the spiral track and deliver the same to the upper end thereof.

9. A toy comprising a mast or upright, a spiral track formed of resilient wire and detachably connected at its upper and lower ends and adapted when removed to collapse, a body arranged to descend on said track, and an elevator arranged to receive said body from the lower end of the track and deliver the same to the upper end thereof.

10. A toy comprising a mast or upright, a track formed of a spiral wire detachably connected at its top and bottom and with its ends extending radially to its axis, and an elevator arranged to receive said body from the lower end of the track and deliver the same to the upper end thereof.

11. A toy comprising a mast or upright formed in two sections detachably connected

together, a spiral track extending from the top to the bottom thereof and formed of wire detachably connected at its upper and lower ends, a body arranged to descend on
5 said track, and an elevator arranged to receive said body from the lower end of the track and deliver the same to the upper end thereof.

In testimony whereof, we have hereunto set our hands.

JOHN A. WALLACE.
JAMES W. MARTIN.

Witnesses:

B. V. CAUGHEY,
O. A. DILLEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
