P. V. JERMYN.

TOY.

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1,345,009. **Patented June 29, 1920.**

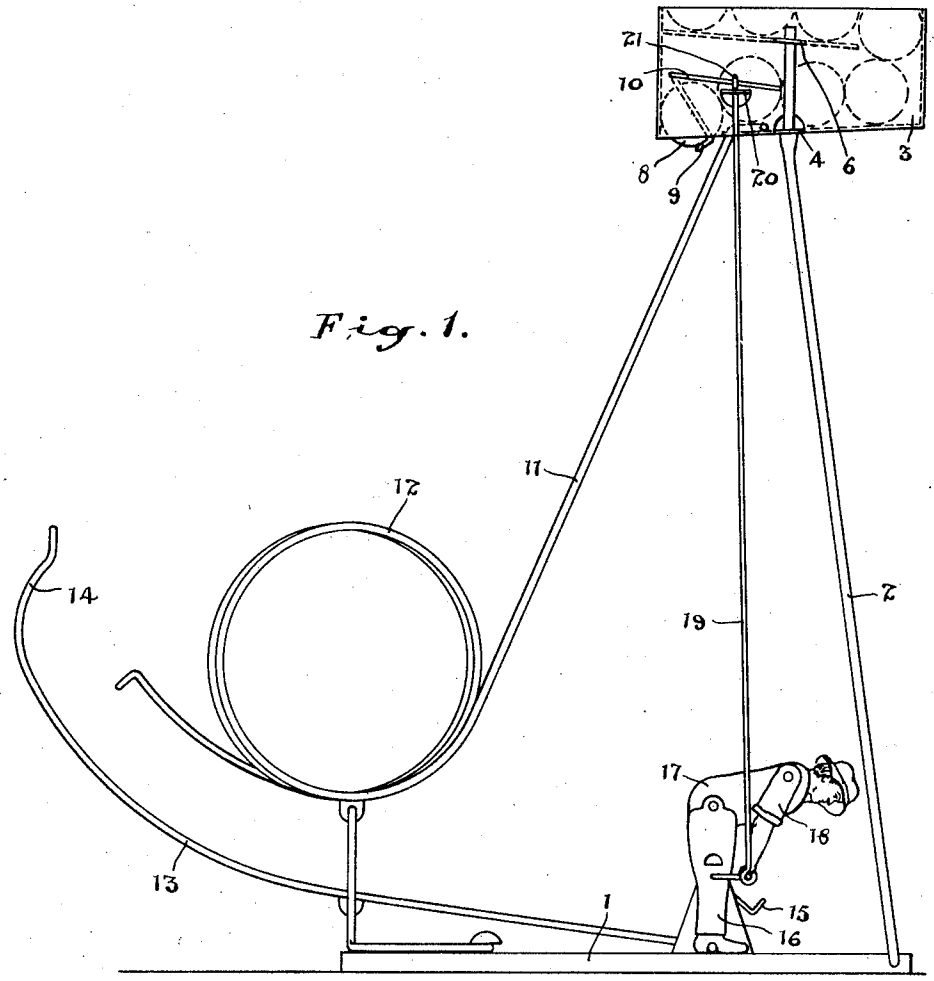


Fig. 1.

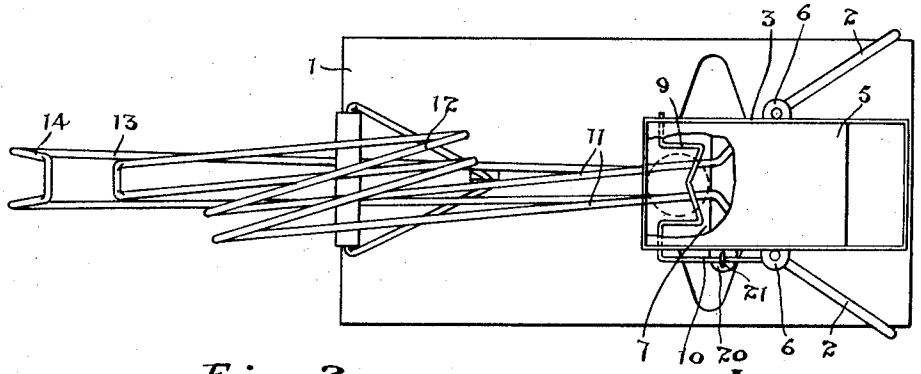


Fig. 2.

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UNITED STATES PATENT OFFICE.

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TOY.

1,345,009. Specification of Letters Patent. Patented June 29, 1920.

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To all whom it may concern:

Be it known that I, PERCY V. JERMYN, a subject of the King of Great Britain, and resident of Port Credit, in the county of York, Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Toys, as described in the following specification and illustrated in the accompanying drawings, that form part of the same.

The principal object of this invention is to devise a novel and interesting toy for children and the principal feature of the invention consists in directing balls down an inclined path and automatically releasing the balls successively from a container by means extending downwardly from the container to the terminal end of the run-way, which means is operated by the passage of the ball.

In the drawings, Figure 1 is a side elevational view of my improved game.

Fig. 2 is a plan view of the device.

The device consists of a base 1 having a pair of rods 2 extending upwardly from one end thereof and supporting at their upper ends a receptacle 3, said receptacle having outwardly turned lugs 4 punched to receive the ends of the rods and a transverse partition 5 is arranged within the receptacle having lugs 6 extending through slits in the sides and engaging the upper end of the rods 2.

The partition 5 stops short of one end of the receptacle a sufficient distance to allow the balls to roll past the end and drop into the lower portion. The lower part of the receptacle is provided with an opening 7 through which the balls 8 are adapted to pass.

An obstructing member 9 in the form of a wire stirrup is pivoted in the side walls of the receptacle 3 and engages the foremost ball, as shown in Fig. 1 and a projecting lever end 10 of the member 9 is adapted to be moved to release the ball.

An inclined run-way is formed by a double wire 11 which slopes downwardly from the opening 7 in the receptacle 3 and is preferably formed into a spiral loop 12 around which the ball travels and a second run-way 13 is formed of a wire loop having an upwardly curved portion 14 extending beyond the end of the loop 12 to catch the balls as they jump from the end of the first run-way. The direction of movement of the balls is thus reversed and they travel inwardly and at the terminal end engage a cranked member 15 supported in the standard 16 which is here shown in the form of the lower limbs of a stooping figure. The body 17 of the figure is pivoted to the upper ends of the legs and the arm 18 holds the opposite end of the crank member. The balls engage one end of the crank member as they roll down the incline run-way and swinging upwardly on the other crank member operate the figure to raise and lower.

A rod 19 is connected to the crank 15 and extends upwardly through a guide lug 20 arranged on the side of the receptacle 3 and the upper end of the rod is formed with an eye 21 which engages the lever end 10 of the member 9.

The operation of the crank member 15 by the passage of the ball from the end of the lower run-way lifts the rod 19 and tilts the member 9 upon its pivot to release the next ball. The weight of the body 17 of the figure at the bottom of the toy immediately returns the obstructing member 9 to catch the next succeeding ball while the one released travels down the run-way.

A very attractive toy is produced which delivers the balls successively and which may be utilized with other forms of games requiring balls to be shot or delivered.

What I claim as my invention is:—

1. A toy, comprising, a receptacle adapted to contain a plurality of balls, an inclined run-way leading from said receptacle and having an upwardly turned lower end, a secondary run-way having an upwardly curved end extending into line with and beyond the discharge end of the aforesaid inclined run-way and passing beneath the same and adapted to guide the balls in a reverse direction, means for withholding the balls from said run-ways, and means actuated by the passage of the balls from the secondary run-way for releasing the next succeeding balls to the first run-way.

2. A toy, comprising, a receptacle, an inclined run-way leading from said receptacle, a secondary run-way having a looped end spaced from the discharge end of the first run-way and curving beneath the same to carry the balls in a reverse direction, a cranked member supported in said receptacle and extending in the path of the run-way, a cranked member arranged at the bottom of the secondary run-way, and a rod

connecting the bottom cranked member with the top cranked member and adapted to release the balls.

3. A toy, comprising, a receptacle having an inclined bottom and a discharge opening, an inclined run-way extending downwardly from said receptacle and formed with a loop and an upwardly inclined terminal end, a secondary run-way having a curved end arranged opposite the terminal end of the first run-way and adapted to receive the balls discharged from said first run-way, and means for releasing the balls one at a time from the receptacle operated by the passage of the balls over the secondary run-way.

4. A toy, comprising, a receptacle supported in a raised position, a run-way formed of parallelly arranged wires bent into a circular looped formation and having a terminal end inclined upwardly, a secondary run-way having a terminal end of curved formation arranged opposite the terminal end of the aforesaid run-way and formed of parallelly arranged wires, means for withholding the balls within the receptacle from passing down the run-way, and means extending into the path of the travel of the balls down the secondary run-way adapted to release another ball from the receptacle.

5. A toy, comprising, a base, a pivotal stooping figure secured upon said base and a crank member supported by said stooping figure and connected to the arms thereof, a receptacle supported above said figure and having an opening in the underside, a run-way extending downwardly from said receptacle and passing said figure, a crank member secured in the receptacle adapted to restrict the movement of the balls through the receptacle, a rod extending downwardly from said crank member to said stooping figure and connected with the crank member thereof.

PERCY V. JERMYN.