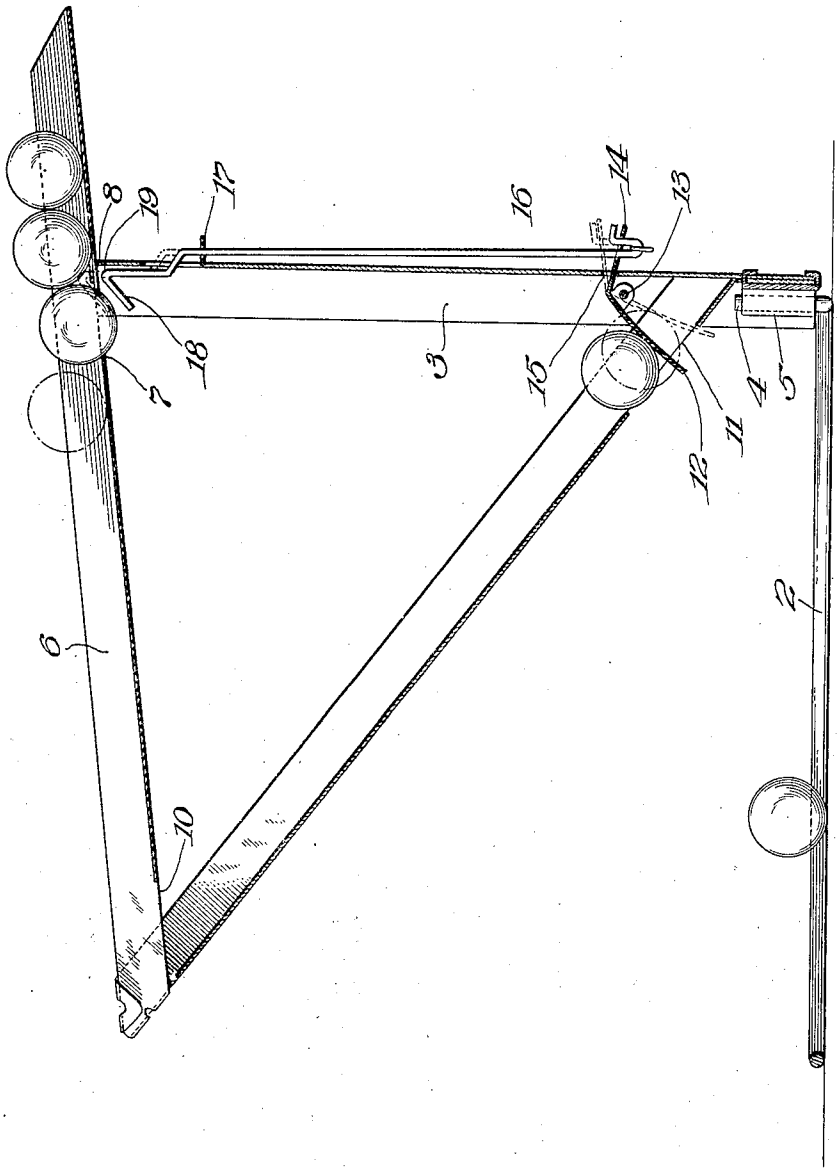
G. F. AND W. H. COLBERT.

TOY.

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TOY.

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To all whom it may concern:

Be it known that we, GEORGE F. COLBERT and WILLIAM H. COLBERT, citizens of the United States, residents of Wilkinsburg and Pittsburgh, respectively, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Toys; and we do hereby declare the following to be a full, clear, and exact description thereof.

Our invention relates to toys and more especially to that class of toys in which marbles or like spherical objects roll along inclined runways, each marble in its discharge from said runway acting through mechanism to release another marble, one of a number contained in a magazine, whereby automatically the marbles are released one by one and discharged through the runway.

The object of our invention is to provide a simple device of this character which is positive in its operation and which is so simple in construction that it can be made at a low cost.

To these ends our invention comprises the novel features hereinafter set forth.

In the drawing the figure is a sectional elevation of our improved toy.

The numeral 2 designates the base-ring which may be formed of wire of suitable gage, or other material, the ring being of sufficient height to retain the marbles or other objects as they are discharged into the ring.

The upright 3 is mounted on the ring 2, and where said ring is made of wire, as illustrated, the ends of the wire are turned upwardly as at 4 and the standard 3 which may be formed of tin or sheet metal of light gage has the sockets 5 at the lower end to receive the upwardly extending ends of the wire. By this construction the standard 3 can be detached from the ring for convenience in packing.

Secured to the upper end of the standard 3 is the inclined runway 6, likewise formed of tin or sheet metal, said runway having the seat or opening 7 formed therein of a size to receive a spherical object such as a marble and prevent its rolling down said runway until lifted from said seat as will more fully hereinafter appear. The seat or opening 7 has the slotted portion 8.

At the lower end of the runway 6 is the inwardly extending inclined runway 9, and an opening 10 at the lower end of the runway 6 forms communication between the runways 6 and 9 so that a marble or like object rolling down the runway 6 will pass through said opening onto the runway 9.

The lower end of the runway 9 is connected to the standard 4 and at the lower end of said runway is the opening 11 through which the marble is discharged into the ring 21.

It will, of course, be understood that we do not limit ourselves to the particular form of runway illustrated, as this runway may be extended to form many different courses for the marble such as a loop.

A tiltable member 12 is pivotally mounted as at 13 in the standard 4 and in such position with reference to the opening 11 at the lower end of the runway 9 that a marble passing down the runway 9 will strike the tiltable member 12 in passing through the opening 11 and will act to tilt said member.

The tiltable member 12 has the lug or projection 14 extending through an opening 15 in the standard 4, and secured to said lug 14 is the rod 16 which passes up through a guide 17 at the upper end of the standard 4. The upper end of the rod 16 is bent inwardly and downwardly as at 18 to form a pusher to lift the marble from the seat or opening 7 when said rod is raised, while at the same time the bend 19 at the upper end of the rod and which projects up through the slot 8 acts as a stop for the succeeding marble as will more fully hereinafter appear.

When in operation the marbles or like objects are placed in the runway 6 back of the seat or opening 7, the marble in said seat or opening acting as a stop for the marbles back of same. In order to start the movement of the marbles a marble is dropped in the runway 6 in front of the first marble resting in the seat 7 and this marble rolling down the runway 6 passes through the opening 10 into the runway 9 and passing down said runway strikes the tiltable member 12 before passing through the opening 11 into the ring 2. The force of the marble striking the tiltable member 12 will tilt said member and accordingly the rod 16 will be raised and the pusher at the upper end of said upwardly moving rod will lift the marble resting in the seat 7, and said marble will pass

down the runway and in its turn will tilt the tiltable member 12 and so release the next marble which has moved into the seat 7 to be released by the action of the previously released marble striking the tiltable member 12. As the rod 16 is lifted the inwardly bent portion at the upper end of the rod will not only act to lift the marble from its seat 7 but the bend 19 projecting up through the slot 8 will act as a detent or stop for the succeeding marble, so that it cannot follow rapidly in the path of the marble just released so as to pass over the seat 7 without being stopped thereby.

In this manner the marbles, one by one, are automatically released from the seat 7 and pass down through the runway, the lifting action of the tiltable member on the rod 16 being of such a positive character that the pusher at the upper end of said rod will always release a marble and the continuous operation is assured until all the marbles have been discharged into the ring 2.

What we claim is:—

1. In a toy, the combination of an upright or support, a runway comprising communicating inclined members extending in opposite directions, one of said members having an opening forming a seat for a marble or like object, a tiltable branch member mounted on said support, the other of said runway members having an opening for the passage of said marble or like object intermediate the ends of said runway member, one branch of said tiltable member being in the path of said marble or like object in its movement down said last-named runway member and extending into said last-named opening, and a vertically movable rod connected to the other branch of said tiltable member, the upper end of said rod being in line with said first-named opening.

2. In a toy, the combination of an upright or support, an inclined runway supported thereby, said runway having an opening forming a seat for a marble or like object, a tiltable member mounted on said upright in the path of a marble passing through said runway, a vertically movable rod connected to said tiltable member, the upper end of said rod being bent inwardly and downwardly and adapted to pass up through said opening, whereby a marble in said opening is lifted and permitted to pass down said runway as said rod is elevated.

3. In a toy, the combination of an upright or support, an inclined runway supported thereby, said runway having an opening forming a seat for a marble or like object and having a slot communicating with said opening, a tiltable member on said upright in the path of a marble passing through said runway, a vertically movable rod connected to said tiltable member, the upper end of said rod being inwardly and downwardly bent, whereby said rod in its upward movement lifts a marble in said opening permitting it to pass down said runway, and said bend in the upper end of said rod enters said slot to form a stop for the succeeding marble.

In testimony whereof we, the said GEORGE F. COLBERT and WILLIAM H. COLBERT, have hereunto set our hands.

GEORGE F. COLBERT.
WILLIAM H. COLBERT.

Witnesses:
ROBERT D. TOTTEN,
JOHN F. WILL.