

No. 772,281.

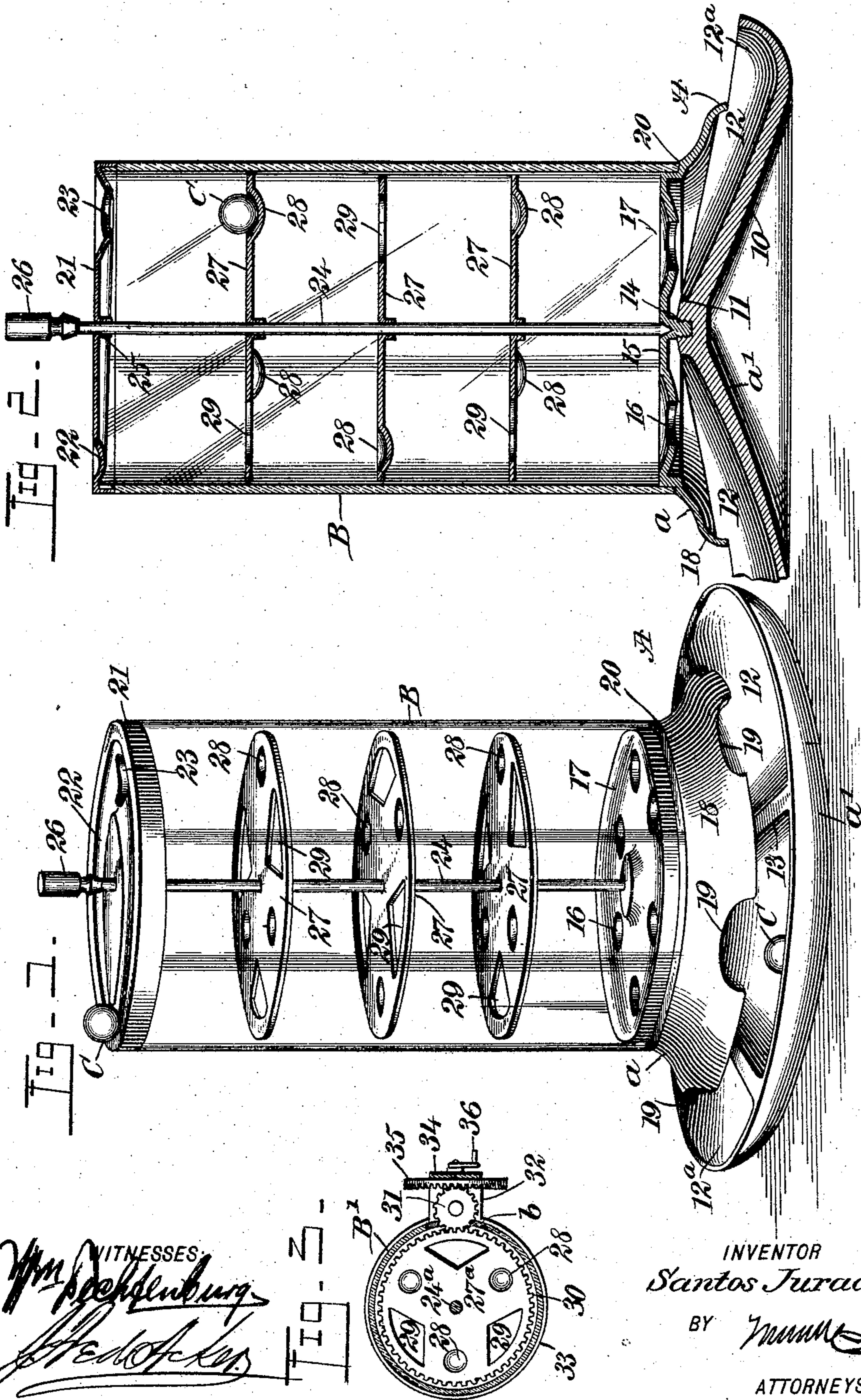
PATENTED OCT. 11, 1904.

S. JURADO.

TOY.

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NO MODEL.



WITNESSES:
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TOY.

SPECIFICATION forming part of Letters Patent No. 772,281, dated October 11, 1904.

Application filed February 24, 1904. Serial No. 195,004. (No model.)

To all whom it may concern:

Be it known that I, SANTOS JURADO, a citizen of the Republic of Venezuela, residing in the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Toy, of which the following is a full, clear, and exact description.

The purpose of my invention is to provide a toy of an amusing and interesting character in which a transparent cylinder is provided having a closed top and an inclined track leading to the aperture in the top, through which aperture a ball or other rolling object is to pass and lodge in pockets or pass through openings in any one of a series of disks or rotating receivers mounted to revolve in the cylinder and finally pass out through the base for the cylinder, having apertures therein and a depression arranged around the apertures, which apertures lead to exposed chambers in the base, any one of which may finally receive the ball.

The intent of the invention is to give different values to the pockets and the chambers in the base.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improved toy, showing the ball about to start and one which has passed through the body of the toy and is lodged in the base. Fig. 2 is a vertical section through the toy, showing a ball lodged in a pocket; and Fig. 3 is a horizontal section, on a smaller scale, showing a form of the toy wherein the receivers for the balls within the body are driven from the side of the latter.

A represents the base of the device, which is in two members—an upper member *a* and a lower member *a'*—and these two members may be made of any suitable material, such

as wood, celluloid, or metal. The lower member *a'* of the base is provided with a conical bottom centrally-located recess 10, and at the crown of this recessed portion of the said member *a'* a boss 11 is formed, having a threaded recess therein. Chambers 12 incline downward from the said boss 11, practically radiating therefrom, and said chambers are separated by suitable partitions 13. (Best shown in Fig. 1.)

The chambers are deepest at their outer portions, where the chambers are dished or cupped, and, in fact, this member *a'* of the base may be termed a "cupped" receiving member. The upper member *a* of the base is of less transverse dimensions than the lower member *a'*, so as to expose the deeper portions of the chambers 12 in the latter or lower member, and the said upper member consists of a top section 15, having a central downwardly-extending stud 14, threaded to enter the recess in the boss of the lower member *a'*, and a skirt-section 18, which is fitted properly to the partitions 13 in the cupped receiving member *a*, as is shown in Fig. 2. The upper section 15 of the upper member *a* of the base is provided with series of apertures 16, arranged around the center, as is shown best in Fig. 1, and this upper section of the upper member *a* of the base is made to slope from its margin toward the said apertures, as is shown at 17 in Figs. 1 and 2, so that a rolling object will be directed to one or the other of the apertures. An aperture 16 is over the upper or receiving portion of each chamber 12, so that an object passing through one of the apertures 16 will roll down the chamber receiving it to the lower cupped portion 12^a of the chamber.

In order that the object in passing through an aperture 16 may readily roll down a chamber 12, the skirt 18 of the upper member *a* of the base is provided with recesses 19, one over the central portion of each chamber 12.

The body B of the toy is preferably of cylindrical form, as is likewise the base, and the said body is made of a transparent material—

celluloid or glass, for example. The bottom of the body B is fitted in a recess 20 in the upper member *a* of the base A, while the top of the body is closed by a suitable cover 21.

5 A spiral or inclined groove 22 is produced in the upper face of the cap or cover 21, and at the deepest portion of this groove an aperture 23 is made, which connects with the interior of the body B.

10 The lower end of a spindle 24 is pivoted in the central portion of the upper member 15 of the base, and this spindle passes out through a suitable sleeved aperture 25 at the upper portion of the cap or cover 21, terminating in
15 a handle 26, of any desired shape, adapted to facilitate turning the spindle or shaft 24.

A series of disks or receiving-plates 27 is secured at suitable intervals apart on the said shaft or spindle 24, being adapted to turn
20 readily in the said body B, and these disks or receiving-plates are brought as close to the side walls of the body B as is possible without interfering with their action. Each disk or receiving-plate 27 is provided with a series
25 of pockets 28, produced therein, and between the pockets openings 29 are made in the various disks or receiving-plates, as is best shown in Fig. 1. Although these openings are shown of segmental formation, they may be given
30 any shape desired; but the pockets 28 are so formed as to receive a ball C.

In the operation of this game the ball C is placed in the groove 22 of the cap or cover 21, and when released it will find its way to the
35 deepest portion of the groove and will drop down through the opening 23 into the body B. The spindle or shaft 24 is meanwhile rapidly revolved and is kept revolving as long as may be desired, and the balls will lodge in one of
40 the pockets 28 in one or the other of the disks 27 or will pass down through the apertures of one disk to an engagement with the next disk below, or the ball may perchance pass through the apertures of all of the disks and eventually
45 land upon the upper section 15 of the base A, whereupon it will find its way down through an aperture 16 in this section of the base and eventually land in one of the chambers 12, as is shown in Fig. 1.

50 I desire it to be understood that numbers may be placed opposite the various pockets 28 and that the chambers 12 may likewise be numbered, so as to make up a score in playing the game.

55 The device is exceedingly amusing in practice, since when the spindle 24 is once turned rapidly or forcibly it will continue to turn, and the progress of the ball may be readily watched, although no skill can guide the ball
60 to any particular pocket.

In Fig. 3 I have illustrated a slight departure, in that the spindle or shaft 24^a is turned by mechanism located at the side of the body

instead of by the knob or handle 26 at the top of the said shaft or spindle. 65

The construction of the toy is the same except that one of the disks 27^a, corresponding to the disk 27 and located on the spindle 24^a, corresponding to the spindle 24, is provided with peripheral teeth 30 and an opening *b* is
70 made in the body B' opposite the periphery of this especial disk, the other disks being of the same construction as that shown in Figs. 1 and 2. The teeth of the disk 27^a are engaged by a pinion 31, suitably mounted on a
75 bracket 32, attached to the body by a band 33 or its equivalent, and the said bracket 32 has an upturned member 34, on which a crown-wheel 35 is mounted, adapted to engage with the pinion 31. This crown-wheel is usually re-
80 volved very rapidly by means of the attached handle 36.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A toy comprising a body, a base there- 85 for, having exposed chambers and apertures leading thereto, a body supported by the base, having an opening at the top, a shaft mounted to turn in the body, and receivers secured to the shaft, provided with pockets and open- 90 ings, substantially as described.

2. A toy comprising a base having exposed chambers and apertures leading to the cham- 95 bers, a transparent body carried by the base and provided at its top with an opening and a spiral recess leading to the opening, a shaft mounted to revolve in the body, means for re- 100 volving the shaft, and disks secured to the shaft, which disks are provided with pockets and openings between the pockets, as de- 100 scribed.

3. A toy comprising a base having exposed downwardly-inclined chambers and an aper- 105 tured section above the chambers, which section has a pitch toward the apertures therein, a transparent body supported by the base, the upper portion of which body is provided with a gradually-tapered groove and an aperture at the deepest portion of the groove, a shaft journaled in the top of the body and in the 110 base, disks secured to the shaft, each disk being provided with a pocket and an opening, and means for turning the shaft, substantially as described.

4. A toy comprising a base having exposed 115 downwardly-inclined chambers and an apertured section above the chambers, which section has a pitch toward the apertures therein, a transparent body supported by the base, the upper portion of which body is provided with 120 a gradually-tapering groove and an aperture at the deepest portion of the groove, a shaft journaled in the top of the body and in the base, disks secured to the shaft, each disk be- 125 ing provided with a pocket and an opening, means for turning the shaft, and an object

capable of traveling in the groove at the upper portion of the body, passing through the opening at the terminal of the groove and seating itself in a pocket of a disk, or passing
5 through an opening of a disk and likewise through an aperture in the base leading to the chambers formed in the base, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SANTOS JURADO.

Witnesses:

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WM. FECHTENBURG.