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PATENTED MAR. 6, 1906

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TOY.

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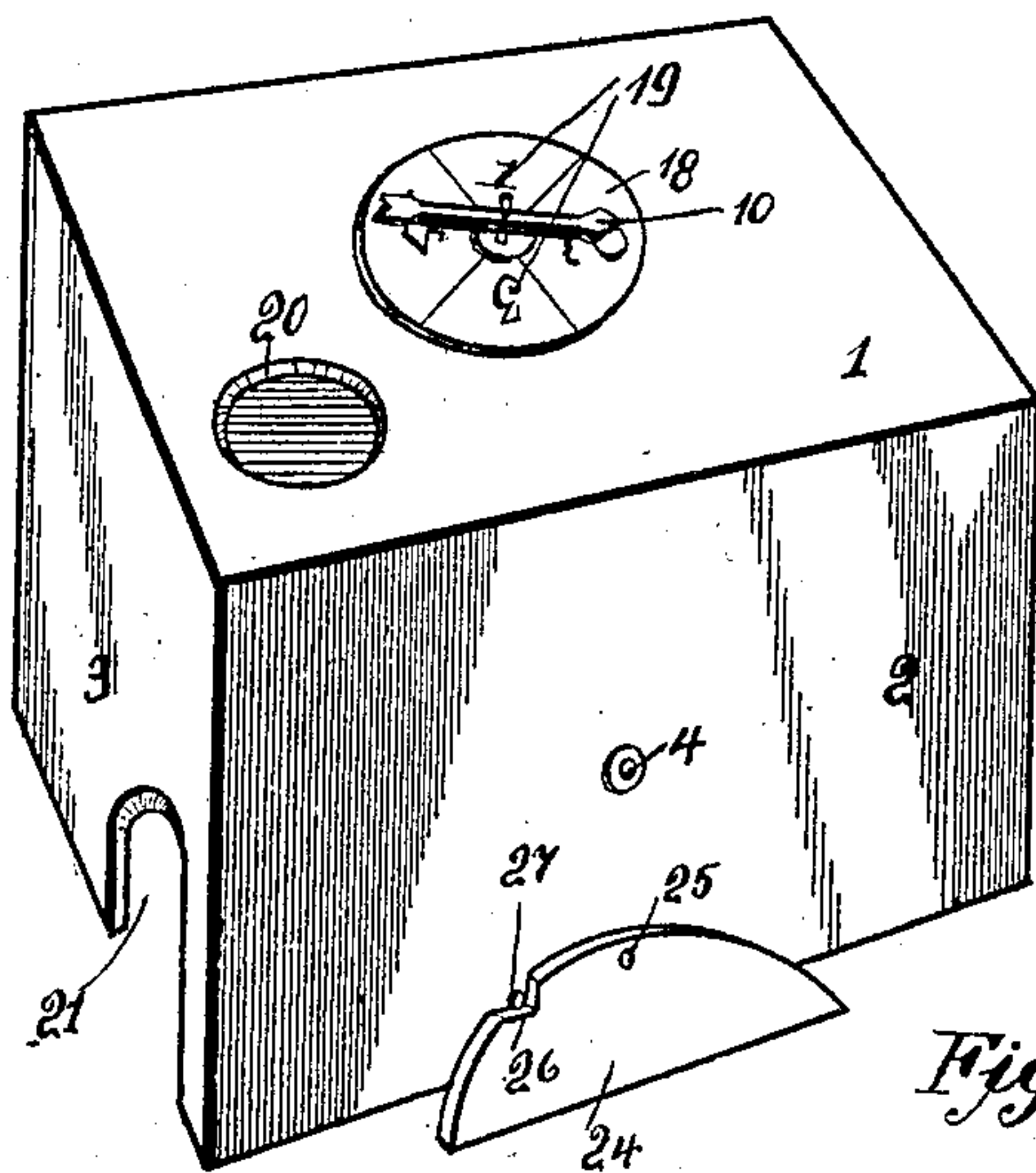


Fig. 1

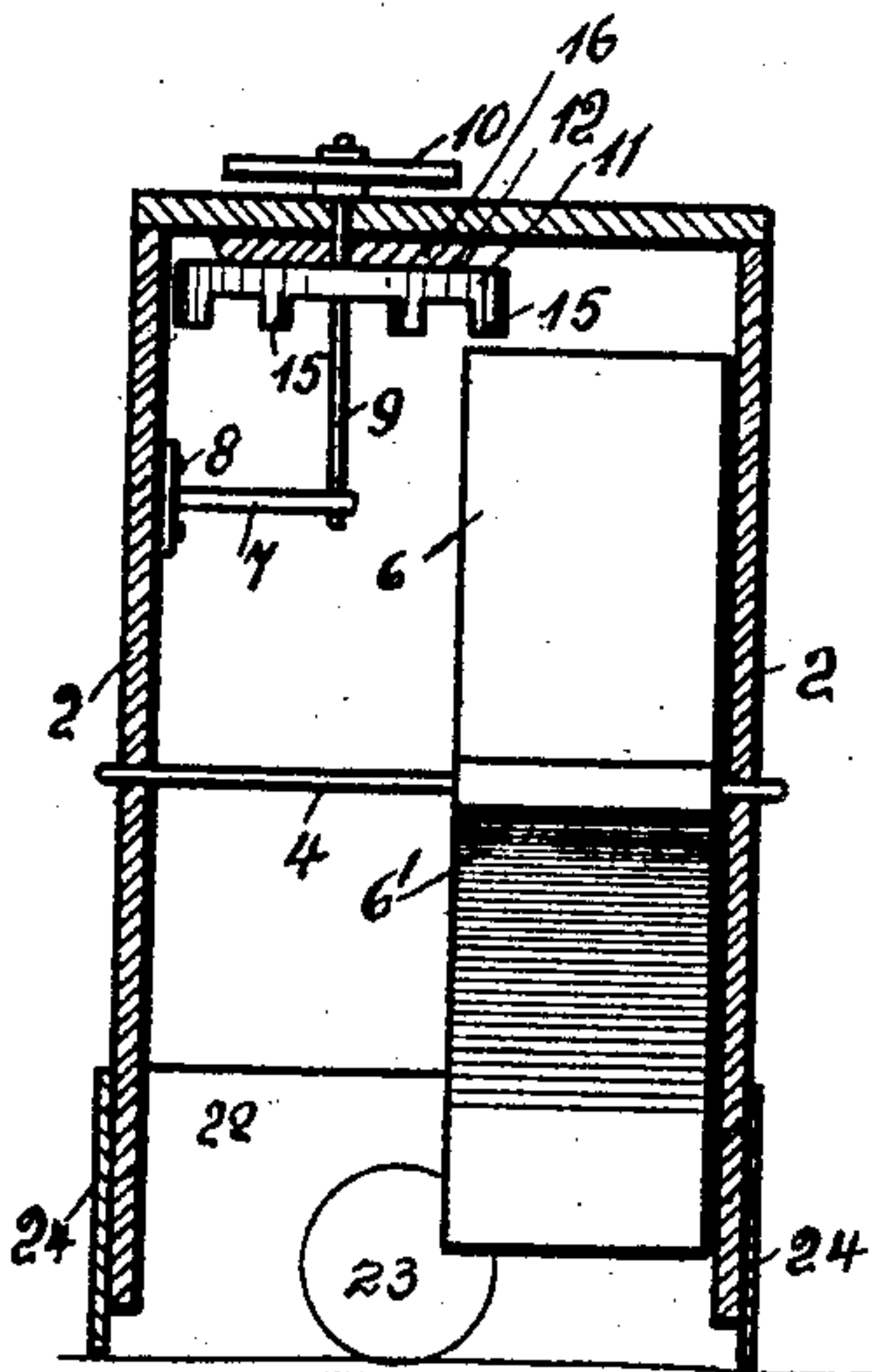


Fig. 2.

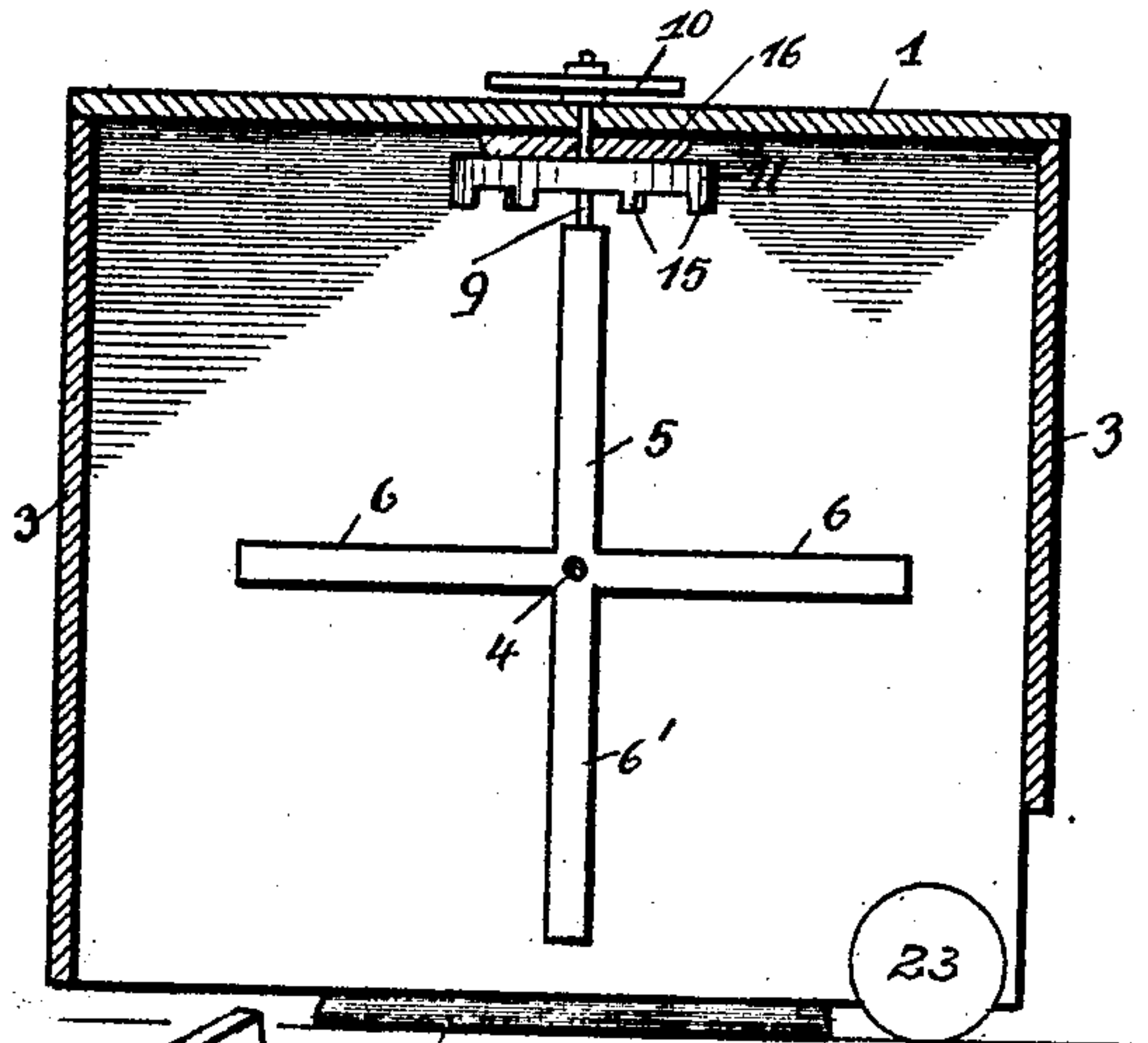


Fig. 3

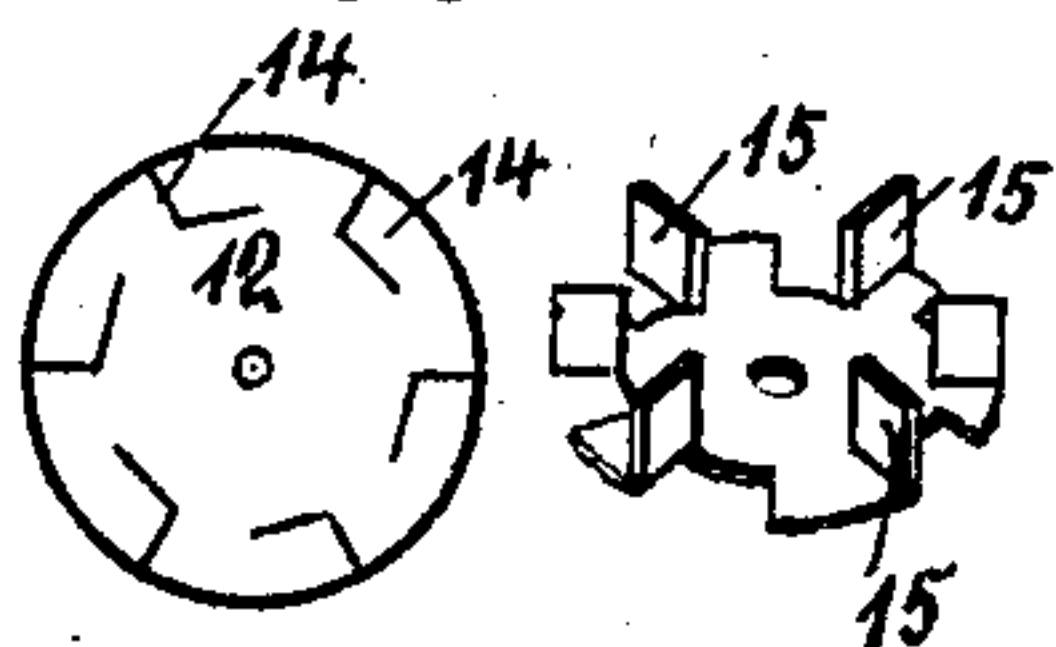


Fig. 4.

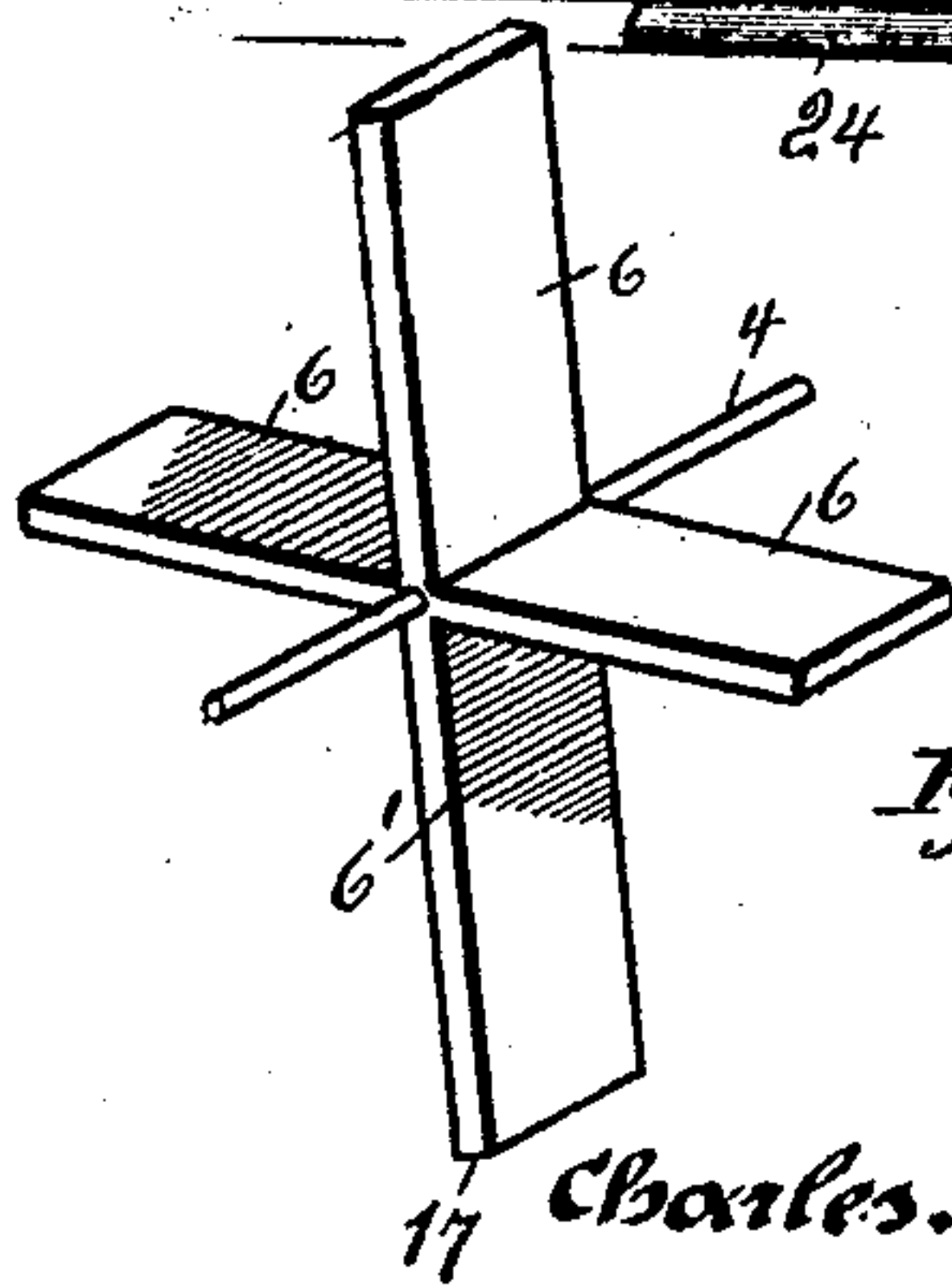


Fig. 5

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UNITED STATES PATENT OFFICE.

CHARLES V. LINDERMAN AND CLARENCE W. CORSON, OF EAST PITTSBURG, PENNSYLVANIA.

TOY.

No. 814,463.

Specification of Letters Patent.

Patented March 6, 1906.

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To all whom it may concern:

Be it known that we, CHARLES V. LINDERMAN and CLARENCE W. CORSON, citizens of the United States of America, residing at East Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Toys, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in toys; and the invention has for its object to provide a novel form of toy capable of amusing the juvenile class and also capable of exciting considerable interest when used as a game participated in by a number of persons.

Another object of this invention is to provide a toy which will be extremely simple in construction, strong and durable, comparatively inexpensive to manufacture, and which will require considerable skill when used as a game.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts, which will be hereinafter more fully described and then specifically pointed out in the claims, and, referring to the drawings accompanying this application, like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a perspective view of our improved toy. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a longitudinal sectional view of the toy. Fig. 4 illustrates a disk used in connection with our improved toy, and Fig. 5 is a perspective view of a wheel used in connection with our improved toy.

To put our invention into practice, we have constructed a bottomless box or casing consisting of a top 1, sides 2 2, and ends 3 3. Journaled in the sides 2 2 is a shaft 4, upon which is mounted a wheel 5. The wheel 5 is illustrated in Fig. 5 of the drawings, and by referring to said figure it will be observed that the wheel consists of a plurality of blades or paddles 6 6', extending radially from the shaft 4. In the present instance we have illustrated the wheel as having four blades, one of which, 6', is slightly longer than the other three, the object of which will be presently described. In the box or casing is

mounted a bracket 7, which is secured to the side 2, as indicated at 8. Between the top 1 and the bracket 7 is journaled a vertically-disposed rod 9, the upper end of which protrudes above the top of the box and is provided with a fixed pointer 10, substantially the shape of an arrow. Upon the rod 9, contiguous to the under face of the top 1 of the casing, is fixed a wheel 11. This wheel is preferably made of metal and is formed from a disk 12, which is sheared, as indicated at 14, to form teeth 15, said teeth being bent upwardly at right angles to the body portion of the disk, as clearly illustrated in Fig. 4 of the drawings. Interposed between the top of the wheel 11 and the underneath face of the top 1 is a washer 16.

The wheel 5 is positioned upon the shaft 4, whereby the top 17 of the long blade 6' will strike the teeth 15 of the wheel 11 and revolve said wheel and the rod 9 when the wheel 5 is rotated.

The top of the casing 1 is provided with a disk 18, having arranged thereon a plurality of consecutive numbers 19. The top 1 of the box or casing is also provided with a beveled opening 20, which is formed in the top of the box or casing in vertical alinement with the periphery of the wheel or the outer edges of the blades of the wheel 5.

The end 3 of the box or casing is cut away to form a beveled opening 21, said opening horizontally alining with the lower edge of the wheel 5. The opposite end of the box or casing is provided with an opening 22, which extends the entire width of the box or casing.

The sides 2 2 of the box are provided with pivoted members 24 24, which are substantially segment-shaped and are pivoted, as indicated at 25, near the lower edges of the sides. Each member is notched, as indicated at 26, and protruding into said notches are pins 27 27, carried by the sides 2 of the box. The notches 26 are made of a sufficient size to allow a slight movement of the pins within said notches, and the bottom edges of the members 24 24 are adapted to rest upon the ground or floor which supports the toy and retain the box in an elevated position, whereby it will have a slight rocking movement. This construction is employed to compensate for any jar or movement that is incurred by operating the toy or playing a game in connection with the same.

To operate our improved toy, we employ a spherical body, such as a ball or marble 23. To manipulate the toy, the ball 23 is dropped in the opening 20, at which time it will strike one of the blades or paddles 6 and cause the wheel 5 to revolve. When the wheel revolves, the long blade 6' will strike the teeth 15 of the wheel 11 and revolve the rod 9. As the pointer 10 is fixed upon the rod 9 it will revolve until the wheel 5 finally ceases to rotate. This operation is also true when the ball 23 is forced through the opening 21 and strikes the blades 6 of the wheel 5, the ball in both instances being ejected from the box or casing through the opening 22.

When the toy is used as a game and participated in by a number of persons, the object or point of the game is to determine who can successfully rotate the pointer the greatest number of times, it requiring considerable skill to shoot the marble into the opening 21 when the players or participants of the game are a considerable distance away from the box or casing. It will require considerable skill to propel the marble or ball 23 with force sufficient to rotate the wheel 5 and impart a revoluble motion to the rod 9. From the foregoing description, taken in connection with the drawings, it will be observed that we have provided a toy which can be readily used for a game, and on account of the simplicity of construction we are enabled to manufacture the toy at a comparatively small cost.

We do not care to confine ourselves to the construction herein illustrated, as various changes may be made in the details of construction without departing from the general spirit and scope of the invention.

What we claim, and desire to secure by Letters Patent, is—

1. A toy of the class described comprising a box having a plurality of openings formed therein, a member pivoted to the sides of said box and adapted to slightly elevate the

box about its support, a bladed wheel journaled in said box, a rod journaled in said box and protruding through the top of said box, a toothed wheel mounted upon said rod and adapted to engage the first-named wheel, a dial mounted upon the top of the box and surrounding the protruding end of said rod, and a pointer fixed upon the end of said rod.

2. A toy of the class described comprising a box having a plurality of openings formed therein, a shaft journaled in said box, a bladed wheel mounted upon said shaft, a rod journaled in said box, the upper end of said rod protruding through the top of the box, and a wheel mounted upon said rod and adapted to engage the blades of the first-named wheel, a pointer carried by the upper end of said rod, and a dial arranged around the upper end of said rod.

3. A toy of the class described, comprising a casing having a plurality of openings formed therein, a dial mounted upon the top of said casing, a revoluble pointer located above said dial, and means to rotate said pointer said means being operable from without said casing, substantially as described.

4. A toy of the class described comprising a casing, a revoluble pointer mounted upon the top of said casing, and means to revolve said pointer said means to revolve the pointer being operable by an object injected into the casing from without said casing.

5. A toy of the class described, comprising a casing, contacting wheels revolubly mounted within said casing, a pointer mounted upon the casing, and revolved by said wheels, one of the latter being adapted to be revolved by an object inserted into the casing.

In testimony whereof we affix our signatures in the presence of two witnesses.

CHARLES V. LINDERMAN.

CLARENCE W. CORSON.

Witnesses:

H. C. EVERT,

WM. C. HEITZ.