

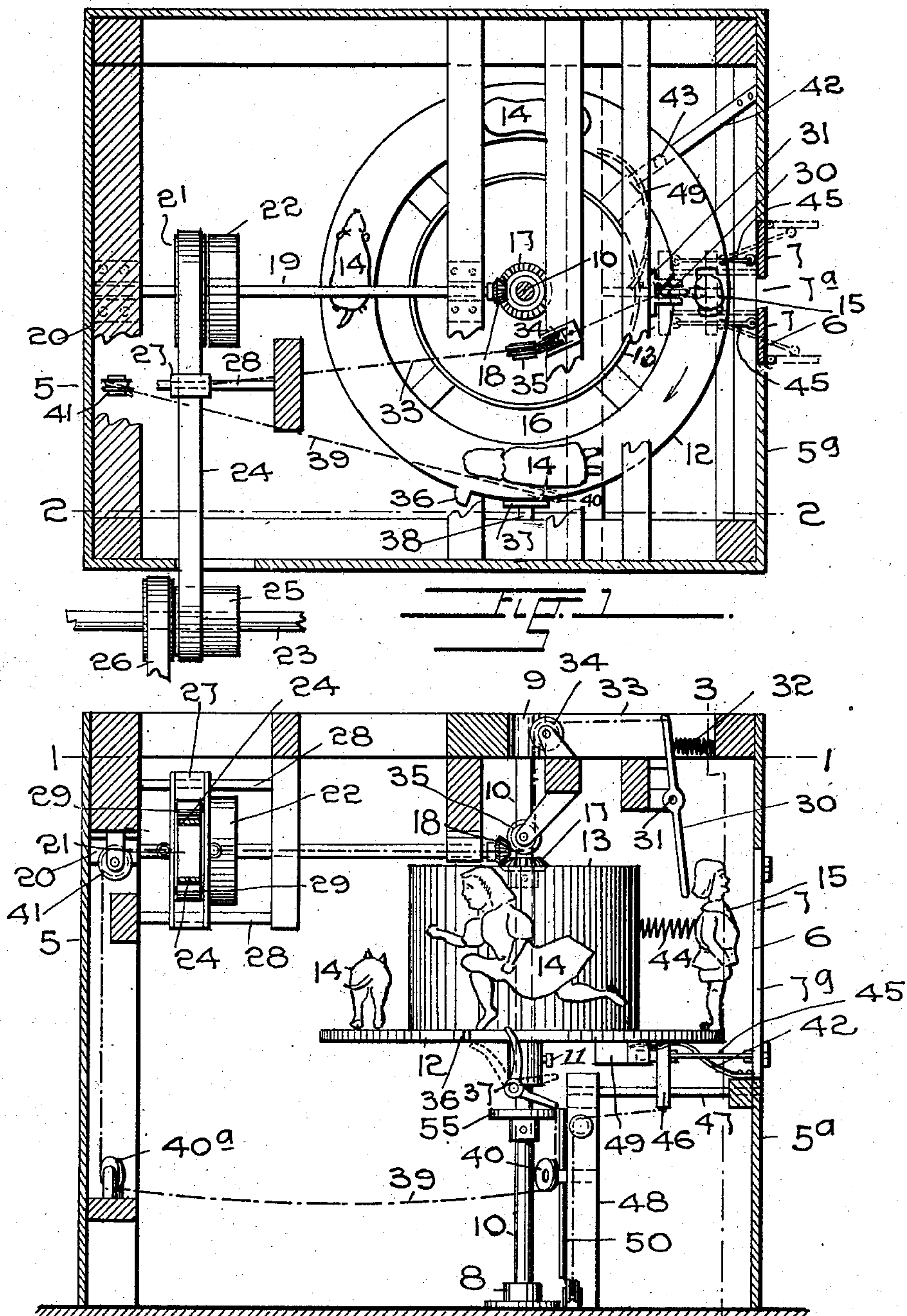
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PATENTED JUNE 23, 1908.

J. C. FAIR.  
GAME APPARATUS.

APPLICATION FILED NOV. 8, 1906. RENEWED APR. 18, 1908.

2 SHEETS—SHEET 1.



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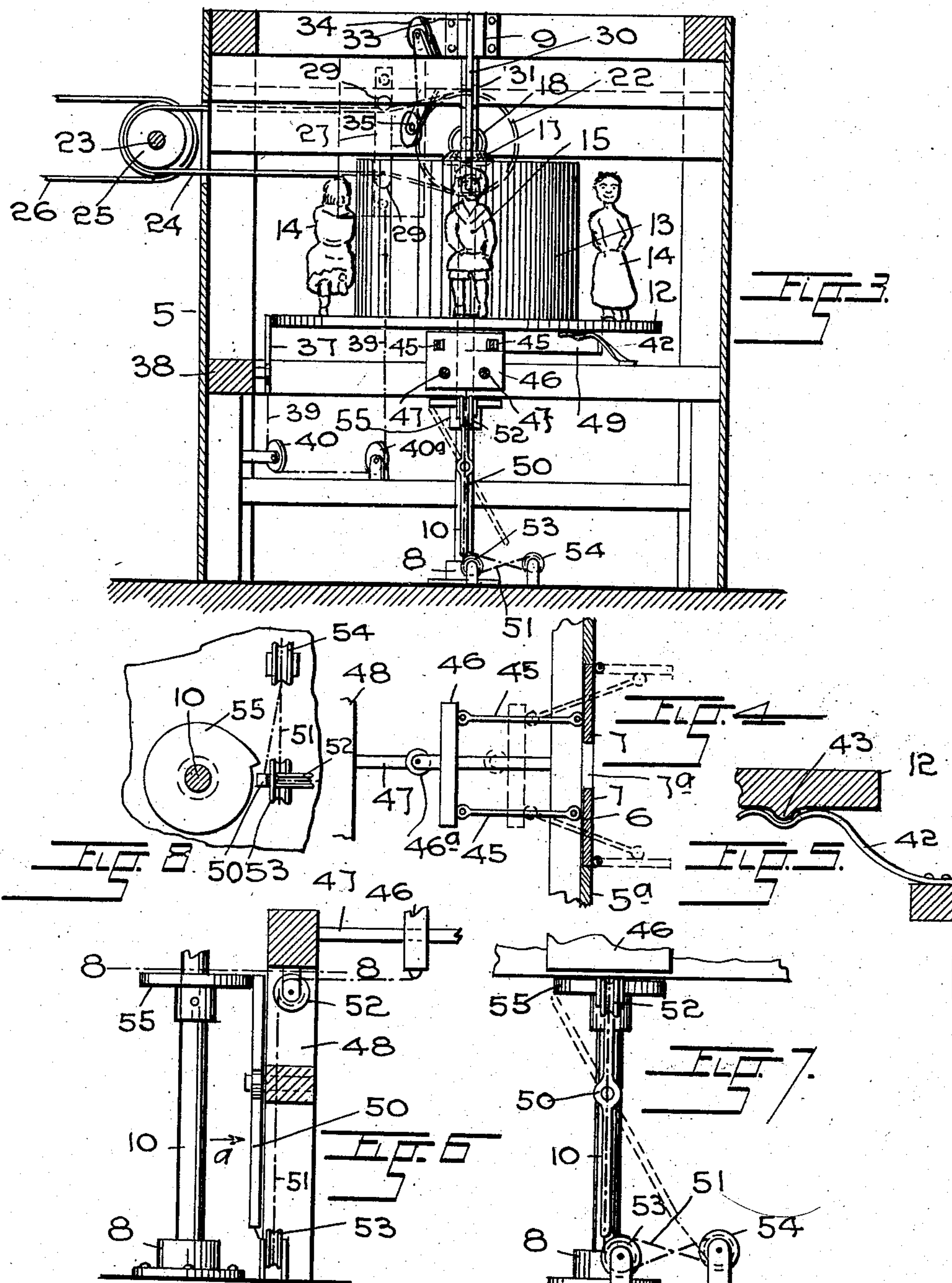
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# UNITED STATES PATENT OFFICE.

JOHN C. FAIR, OF DENVER, COLORADO.

## GAME APPARATUS.

No. 891,333.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed November 8, 1906, Serial No. 342,553. Renewed April 18, 1908. Serial No. 427,892.

*To all whom it may concern:*

Be it known that I, JOHN C. FAIR, a citizen of the United States of America, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Game Apparatus, of which the following is a specification.

This invention relates to a novel game apparatus and has for its object to produce a device provided with a movable appliance, which being actuated when a ball thrown by the player, strikes the target aimed at, will reveal a number of appropriately fashioned, moving images which together may simulate some act or scene and thus greatly enhance the enjoyment derived from the game. I attain this object by the mechanism illustrated in the accompanying drawings in the various views of which like parts are similarly designated and in which,

Figure 1, represents a horizontal section through the device, taken along a line 1—1, Fig. 2, Fig. 2, a vertical section along a line 2—2, Fig. 1, Fig. 3, a vertical section along a line 3—3, Fig. 2, Fig. 4, an enlarged horizontal sectional view of the doors and the therewith connected actuating mechanism, Fig. 5, an enlarged fragmentary view of the revolving platform and the thereto applied spring brake, Fig. 6, an enlarged fragmentary elevation of the door-closing mechanism, Fig. 7, a side view looking from a point *a*, Fig. 6, and Fig. 8, a section taken along a line 8—8, Fig. 6.

Referring to the drawings, 5 designates a preferably rectangular inclosure or booth, the front 5<sup>a</sup> of which has an opening 6, normally partly closed by two outwardly swinging doors 7, hinged along the opposite vertical edges of the opening. The width of these doors is such that when they are in the closed position, a space 7<sup>a</sup> is left between their juxtaposed vertical edges, of sufficient width to allow the passage of one of the balls employed in the game.

Rotatably mounted in a step box 8 and a journal box 9, approximately midway between the sides of the booth, is a vertically extending shaft 10, upon which is secured by means of a set screw 11 or analogous means, a horizontal circular platform 12. This platform is provided with a concentric, upwardly extending, hollow, cylindrical structure 13, which being appropriately painted, forms a background for a number of figures

14 and 15 which are disposed upon the platform along its outer edge. An annular opening 16 in the platform between the cylinder 13 and the image-supporting outer portion, permits the balls thrown by the players to drop on to the floor or into a subjacent receptacle or chute which for obvious reasons, is not shown in the drawings. The upright shaft 10 is furthermore provided with a bevel gear wheel 17 into which meshes a coöperative cog wheel 18, upon the extreme end of a horizontal shaft 19 which is rotatably supported in boxes 20 within the inclosure.

Shaft 19 is provided with a fixed pulley 22 and an adjoining loose pulley 21 and receives its rotary movement from a counter shaft 23, preferably located outside the inclosure, through instrumentality of a belt 24 which operatively connects the above named pulleys with a fixed pulley 25 on the shaft 23. The latter may be connected with any convenient source of power, by a belt 26 or other means of transmission.

The portion of the belt intermediate the two parallel shafts 19 and 23, is engaged by a shifter 27 which is laterally movable upon two parallel guide rods 28, arranged in suitable supports and which is preferably provided with anti-friction rollers 29 which engage the outer sides of the belt.

The figure 15 which when the mechanism is at rest, is situated opposite the space 7<sup>a</sup> between the doors 7 is hinged upon the platform and when impelled towards the center by the impact of a ball thrown through the said space, engages the lower arm of a lever 30 which is fulcrumed in a suitably supported bearing 31 and held in its normal position by a spring 32. A rope or chain 33, leading over guide sheaves 34 and 35 connects the upper arm of the lever with the belt shifter 27, so that when by impact of the image 15, the position of the lever is reversed, the shifter will move laterally along its guides and transfer the belt from the loose onto the fixed pulley on shaft 19, with the result that a rotary movement is imparted to the upright shaft 10 and the therewith connected platform 12. When the latter has completed the greater part of a revolution, it engages by means of an outwardly extending, integral projection 36, the upper arm of a bell crank lever 37, which normally projecting in the path of the said projection is fulcrumed upon a suitable support 38. The lower arm of



this lever is connected by means of a chain or rope 39 which leads over guide sheaves 40<sup>a</sup> and 41, with the belt shifter at the side opposite the one where the connection leading from lever 30 is attached, with the result that when by action of the projection 36 of the revolving platform, the lever 37 is moved about its fulcrum, it will draw the adjacent portion of the rope 37 upwardly and in consequence cause the shifter 27 to move rearwardly along the guides and return the belt to its original position upon the loose pulley. The platform carried onward by its momentum, is subsequently brought to a stand still when the image 15 has reached its original position opposite the space 7<sup>a</sup>; by a spring brake 42, which engages a protuberance 43 on the lower surface of the platform. The figure 15, which by impact of the ball, is moved about its hinge to engage the lever 30, is subsequently returned to the upright position by a spring 44 or analogous means.

The doors 7 are connected by means of inwardly extending pivoted rods 45, with a follower 46, which is slidably supported on parallel guide rods 47 horizontally secured between the front portion of the booth and a support 48 erected underneath the platform 12.

The follower 46 has an anti-frictional roller 46<sup>a</sup>, which when the platform is actuated, is engaged by a cam 49 which projecting downwardly from the lower surface of the platform, is arranged to impel the follower towards the front portion of the booth with the object of opening the doors 7 as illustrated in broken lines in Figs. 1 and 4.

The doors are subsequently closed, when the platform completes its revolution, through instrumentality of a lever 50 which is fulcrumed upon the before mentioned support 48 in proximity to the upright shaft 10. The lower arm of this lever which when the doors are closed, extends in an oblique position as illustrated in broken lines in Fig. 7, is connected with the follower by means of a chain or rope 51 which extends from the latter over a guide sheave 52, downwardly over a second sheave 53 and from there around a third sheave 54 in intersecting directions to the lower arm of the lever. When the follower by action of the cam 49 is thus impelled towards the front of the inclosure, it will cause the lever to assume the position shown in full lines in Fig. 7, in which condition the outer extremity of its upper arm extends in the path of a cam 55 which is fixedly mounted upon the shaft 10 underneath the platform 12. This cam is arranged to engage the lever 50 prior to the completion of a revolution of the platform, for the purpose of returning it to its original position and to consequently reclose the doors by drawing the follower inwardly.

Having thus described the mechanical con-

struction of the apparatus, its operation will be readily understood. The figures erected upon the platform are preferably fashioned and arranged to represent in progressive order, the positions of the various participants in an act, such as for instance, a hunt, when the pivoted image 15 may be made in the form of a rabbit or deer and the other figures in the form of hounds and hunters, or a chase after an evil doer which in this case is represented by the figure 15, while the others are formed and dressed to represent policemen, blood hounds, etc. The background upon the cylindrical structure 13 is, as heretofore explained, painted to represent an appropriate scene. The player standing at a certain distance from the booth, facing its front, attempts to throw a ball through the narrow space between the door and to strike the image 15 situated in alinement therewith. Should he succeed, the impact of the image with the lever 30 will cause the platform to revolve in the direction of the arrow in Fig. 1, and the cam on the latter will simultaneously open the doors. The player now sees the image he aimed at, vanish from sight to be followed in rapid succession by those who apparently are in close pursuit until the platform has completed one revolution when by the mechanism hereinabove described, the various parts are returned to their original positions.

I wish it understood that if so desired, all of the images may be hinged upon the platform in which case the player continues in his attempts to hit one or more of them, while they pass by the opening in the front wall of the inclosure.

Having thus described my invention what I claim is:—

1. In a game apparatus, the combination of a revoluble platform bearing a movable figure, and means to actuate the said platform by the impact of a projected object with the said figure.

2. In a game apparatus, the combination of a revoluble platform bearing a plurality of figures one of which is movable, and means to actuate the said platform by the impact of a projected object with the movable figure.

3. In a game apparatus, the combination of a revoluble platform bearing a movable figure, a suitable mechanism adapted to revolve the platform and to be actuated by the impact of a projected object with the said figure, and means to deenergize the said mechanism and arrest the movement of the platform at the completion of one revolution.

4. In a game apparatus, the combination of an inclosure having an opening in one of its sides, a platform revolubly mounted therein and bearing a figure normally opposite the said opening, a suitable mechanism



adapted to impart a rotary movement to the platform and to be actuated by the impact with the said figure of an object projected through the said opening, and means to deenergize the said mechanism and arrest the movement of the platform at the completion of one revolution.

5. In a game apparatus the combination of an inclosure having an opening in one of its sides, spaced doors arranged to partly close the said opening, a platform revolubly mounted within the inclosure and bearing a figure normally opposite the space between the said doors, a mechanism adapted to revolve the platform and to be actuated by the impact of a projected object with the said figure, and means to automatically open the doors at the commencement of the movement of the platform.

6. In a game apparatus the combination of an inclosure having an opening in one of its sides, spaced doors arranged to partly close the said opening, a platform revolubly mounted within the inclosure and bearing a figure normally opposite the space between the said doors, a mechanism adapted to revolve the platform and to be actuated by the impact of a projected object with the said figure, means to automatically open the doors at the commencement of the movement of the platform, means to deenergize the mechanism and arrest the movement of the platform at the termination of a predetermined period, and means to synchronously reclose the doors.

7. In a game apparatus, the combination of a revoluble platform bearing a movable figure, a shaft adapted to impart a rotary movement to the platform, a loose and a fixed pulley upon the said shaft, an endless belt around one of the said pulleys, a slidable shifter in engagement therewith, and a suitable connection arranged to impel the said shifter by engagement of the said figure when moved by the impact of a projected object.

8. In a game apparatus the combination of a revoluble platform bearing a movable figure, a shaft adapted to impart a rotary movement to the platform, a loose and a fixed pulley upon the said shaft, an endless belt around one of the said pulleys, a slidable

shifter in engagement therewith, a suitable connection arranged to impel the said shifter by engagement of the said figure when moved by the impact of a projected object, and a second connection arranged to move the shifter in opposite direction, by engagement of a projection on the revolving platform.

9. In a game apparatus, the combination of a revoluble platform bearing a movable figure, a shaft adapted to impart a rotary movement to the platform, a loose and a fixed pulley upon the said shaft, an endless belt around one of the said pulleys, a slidable shifter in engagement therewith, a suitable connection arranged to impel the said shifter by engagement of the said figure when moved by the impact of a projected object, a second connection arranged to move the shifter in opposite direction by engagement with a projection on the moving platform, and a brake arranged to arrest the movement of the platform at the end of one revolution.

10. In a game apparatus, the combination of an inclosure having an opening in one of its sides, doors arranged to partly close the said opening, a platform bearing a movable figure, revolubly mounted within the inclosure, and means to actuate the platform by the impact of a projected object with the figure, the said platform having a cam arranged to drive the doors outwardly, while in motion.

11. In a game apparatus, the combination of an inclosure having an opening in one of its sides, doors arranged to partly close the said opening, a platform bearing a movable figure, revolubly mounted within the inclosure, an actuating member arranged to revolve therewith, means to actuate the platform by the impact of a projected object with the figure, the said platform having a cam arranged to drive the doors outwardly, while in motion, and means adapted to reclose the door by engagement therewith of the said actuating member.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOHN C. FAIR.

Witnesses:

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K. M. STUMP.