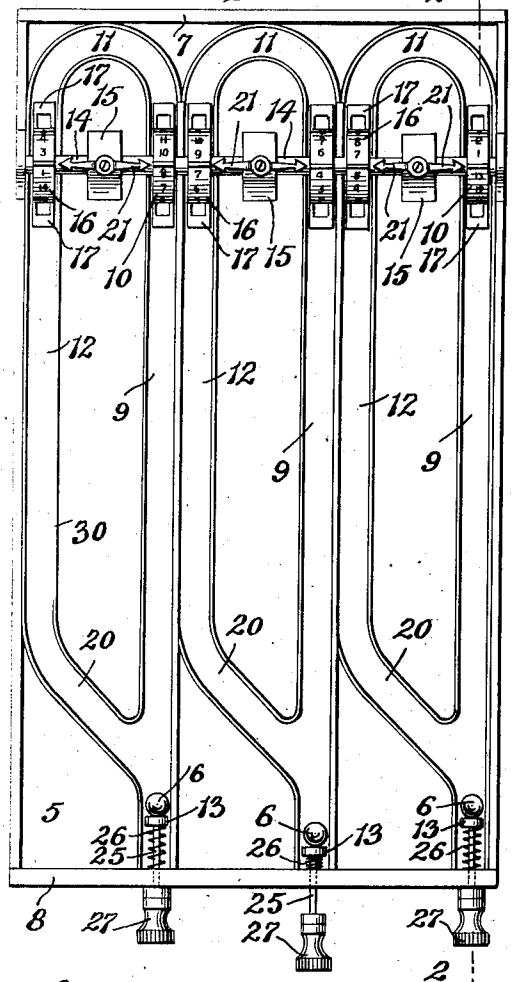
Jan. 1, 1935. L. L. LANGROCK 1,986,000

GAME

Filed Jan. 5, 1934

Fig. 1.



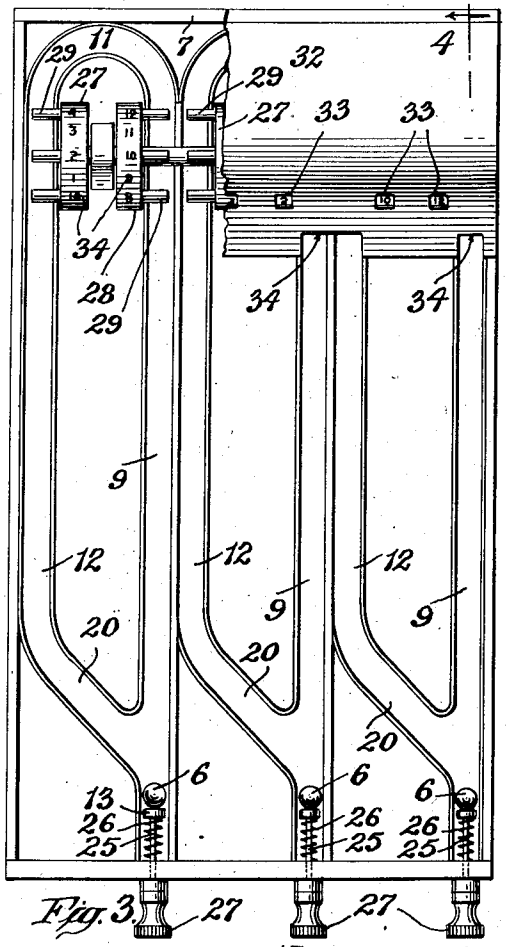


Fig. 3.

Fig. 2.

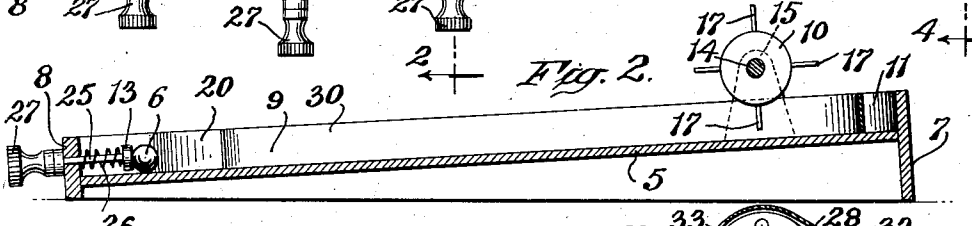
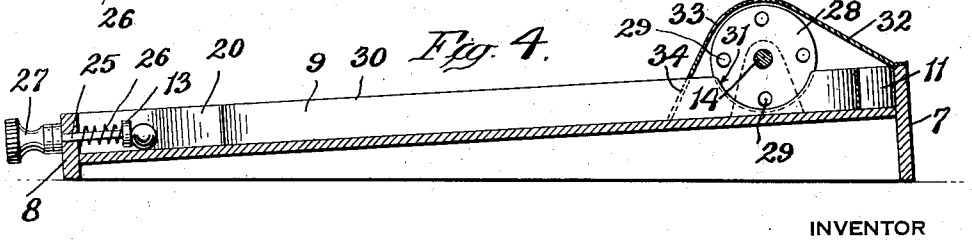


Fig. 4.



INVENTOR

Leopold L. Langrock

BY

Harry Radzinsky

ATTORNEY

Patented Jan. 1, 1935 1,986,000

UNITED STATES PATENT OFFICE

1,986,000

GAME

Leopold L. Langrock, New York, N. Y.

Application January 5, 1934, Serial No. 705,350

3 Claims. (Cl. 273—121)

This invention relates to games, and has for its object to provide an interesting and instructive game. More specifically, the game constitutes a support provided with one or more alleys and a means for propelling a ball or similar object along the alleys to cause the ball to be brought forcibly against projecting parts of a wheel or other rotatable member positioned in the alley. The wheel bears symbols, numbers, or other indicia on its periphery. When the ball is propelled along the alley, its impact against the projecting portions of the wheel causes the wheel to be rotated. Suitably mounted indicating means will designate a portion of the periphery of the wheel after the wheel has stopped rotating, and the numeral, symbol, or other indicia aligned with the indicating means may be read by the player, and will count as a point, a number of points, or other scoring, dependent upon the nature of the symbols or other markings used on the wheels.

In the accompanying drawing, in which several embodiments of the invention are shown, Fig. 1 is a plan view of a game constructed in accordance with the invention; Fig. 2 is a sectional view on the line 2—2 of Fig. 1, looking in the direction of the arrows; Fig. 3 is a plan view of a modified structure, wherein the wheels or other rotatable members are contained in a windowed casing; and Fig. 4 is a sectional view on the line 4—4 of Fig. 3, looking in the direction of the arrows.

In the embodiment of the invention shown in Figs. 1 and 2, 5 indicates the baseboard or support for the game. Said support may be made of wood, sheet metal, or any other suitable material, and is arranged to lie at an angle to the horizontal so that the balls indicated at 6 will, after being propelled up one alley, return by gravity in a return alley to the propelling means. To hold the baseboard 5 at such an angle, a rear wall 7 of greater height than the front wall 8 is provided on the baseboard. The board 5 is provided with a series of alleys shown at 9, by a plurality of upstanding ribs or walls 30, each of the alleys constituting means for guiding the ball 6, as it is propelled therein toward the rotatable wheels 10. The end of each of the alleys 9 is curved, as indicated at 11, to lead into return alleys 12 which return the ball into the alleys 9 and to the plungers 13, which are used to propel the balls.

The wheels 10 are mounted to rotate on a shaft 14 which is secured in brackets 15, attached to and extending upward from the baseboard 5. A series of wheels 16 are also provided on the shaft 14, one of said wheels 16 being located in each of the return alleys 12. It is thus apparent that when any one of the plungers 13 is manipulated to shoot a ball, the ball will proceed along its alley 9, will strike the radially projecting flanges 17 provided on the wheel 10, which flanges are normally located in the alley 9, and will rapidly spin the wheel 10. The ball continues its progress along the alley after having struck the flanges on the wheel 10, and enters the curved portion 11 of the alley and then proceeds in a return direction along the return alley 12. As it enters the return alley 12, it strikes the flanges 17 on the wheel 16, located in said return alley, and spins that wheel. The ball finally enters the angular portion 20 of the return alley and then falls against the plunger where it is in position to be again propelled.

As the wheels 10 and 16 cease rotating, one or the other of the numerals, symbols, or other markings borne on each of their peripheries, and clearly seen in Fig. 1, will register with the indicators 21 supported on the brackets 15. To count the scoring, the numerals on both wheels are noted and placed to the credit of the player.

In the arrangement shown in Fig. 1, the player manipulates the three plungers 13, there shown, and takes a reading from the six wheels which are spun by the three balls moving up the alleys 9 and returning in the alleys 12. It will be obvious that the number of alleys, wheels and balls used may be increased or decreased, according to the nature of the game. It is possible for three players to each utilize one alley. One player may also use three alleys or one player may use two alleys and another player one. Instead of numerals being utilized on the peripheries of rotatable wheels, representations of playing cards, pictures, letters, or other symbols may be used according to the nature of the game to be played. A wheel may be used in one of the alleys 9 and none in the return alley 12, or vice versa.

The spring-pressed plungers shown at 13 each consist of stems 25 surrounded by springs 26 and provided with a knob 27 which is grasped in the hand, drawn outwardly and then released, the spring acting to cause the head of the plunger to shoot the ball rapidly up the alley 9. The force imparted to the ball may, of course, be varied according to the whim of the player.

The structure shown in Figs. 3 and 4 is similar in most respects to that shown in Figs. 1 and 2 except that in Figs. 3 and 4, the wheels shown at 27 and 28 are provided with laterally extending pegs 29 which project through recesses 31 in the walls 30 of the alleys and enter the alleys in position to be struck by the balls 6, as they are

propelled along the alleys. The wheels are covered by a shield or cover member 32 which is provided with a plurality of windows 33 through which the numerals 34 appearing on the peripheries of the wheels 27 and 28 can be read. If the body of the wheels shown at 28 and 34 are made of translucent material, they may be illuminated by small lights placed behind them, so that the numerals appearing through the windows 33, after the wheels 27 and 28 stop rotating, can be plainly seen by the player. The cover member 32 is provided with openings 34 located in registration with the alleys so that the balls may easily enter into the cover member through the alleys 9 and return through the return alleys 12.

While I have shown and described several embodiments of the invention, it will be obvious that it may be varied in many ways and in many particulars, according to the game to be played, and the rules used in playing it, without departing from the spirit of the invention.

What I claim is:

1. A game provided with propelling means, an alley along which a ball is projected by said propelling means, a return alley leading back to the propelling means, a wheel mounted for rotation in each of said alleys, said wheels having parts positioned in the respective alleys to receive the impact of a ball movable first along one alley in one direction and then in the other alley in a return direction, the wheels bearing symbols, and means for indicating a portion of each of the wheels after the wheels have ceased rotation.

2. A game provided with ball-propelling means, an alley along which a ball is projected by said propelling means, a return alley forming a continuation of the first alley and leading back to the propelling means, wheels mounted for rotation in each of said alleys, said wheels having projecting elements extending into the alleys to receive the impact of a ball movable first along one alley in one direction and then in the other alley in a return direction, the wheels bearing symbols on their peripheries, and fixed indicators for indicating a portion of the periphery of each of the wheels when the wheels have ceased rotation after having been rotated by the impact of the ball as it moves along the alleys.

3. A game provided with an alley in which a ball is directed by propelling means, propelling means located in one end of said alley, a wheel mounted for rotation and provided with projections located in the alley to receive the impact of a ball moving therein under the propulsion of the propelling means, the wheel carrying markings, means for designating one of the markings on the wheel after the wheel has ceased rotation, the alley having a return portion for directing the ball back to the propelling means and into position to be again propelled thereby.

LEOPOLD L. LANGROCK.