Feb. 9, 1926. 1,572,069

F. KLINE

GAME

Filed April 9, 1925

Fig. 1

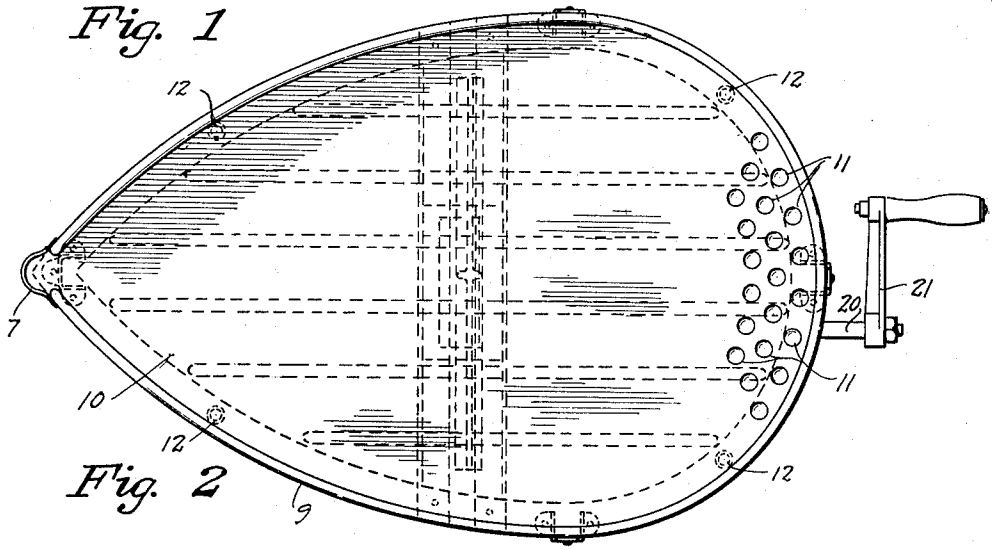


Fig. 2

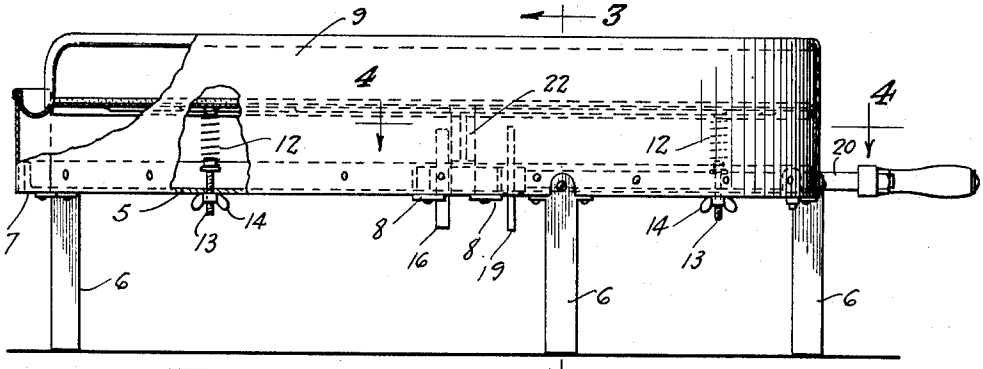
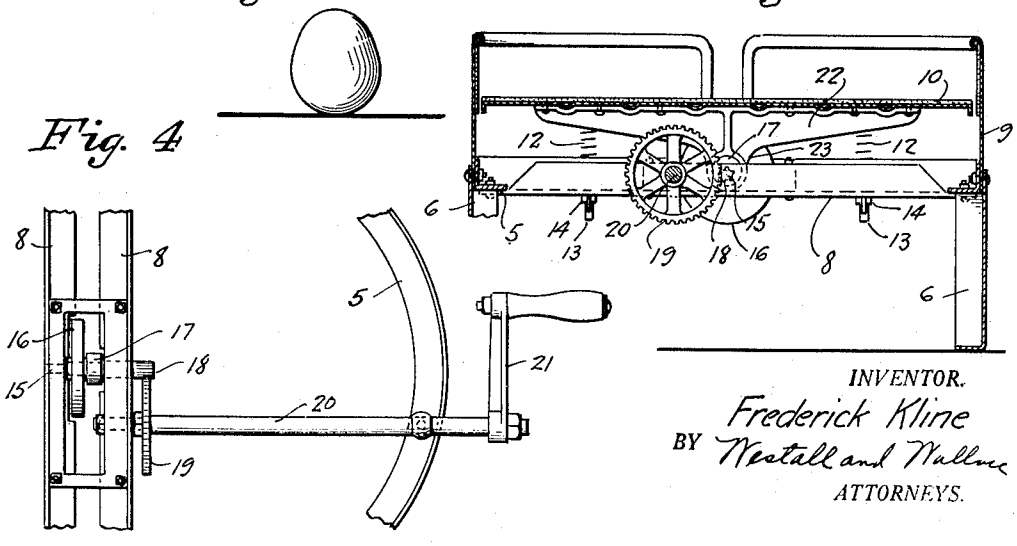


Fig. 5

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Fig. 3

Fig. 4



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UNITED STATES PATENT OFFICE.

FREDERICK KLINE, OF SANTA MONICA, CALIFORNIA.

GAME.

Application filed April 9, 1925. Serial No. 21,775.

To all whom it may concern:

Be it known that I, FREDERICK KLINE, a citizen of the United States, and resident of Santa Monica, in the county of Los Angeles, State of California, have invented new and useful Improvements in a Game, of which the following is a specification.

This invention relates to a toy and pertains more particularly to a game in which a number of objects race against one another.

It is the primary object of this invention to provide a game wherein the objects may travel an undetermined tortuous path. It is another object of this invention to provide a game of the character described which is amusing to the spectator and player from the visual standpoint, by reason of the antics of the objects in travelling or racing over the course.

These objects together with other objects and corresponding accomplishments are obtained by means of the embodiment of my invention illustrated in the accompanying drawings, in which:

Fig. 1 is a plan view of a complete machine for manual operation; Fig. 2 is an elevation of the structure shown in Fig. 1, portions of the guard rail being broken out and parts being shown in section; Fig. 3 is a section as seen on the line 3—3 of Fig. 2; and Fig. 4 is a section as seen on the line 4—4 of Fig. 2 of a fragment of the device. Fig. 5 is an elevation of one of the ovoid racers.

Referring more particularly to the drawing, a base is provided consisting of an angle bar 5 supported upon legs 6. The bar 5 is bent and the ends thereof brought together with a space therebetween. A pocket 7 projects outwardly at the opening to catch the racers after they have completed their travel over the course. Spanning the base member 5 are bridge bars 8. A rail 9 encompasses the base and provides a guard for the table later described. The ends of the rail are spaced to provide a gate communicating with the pocket 7.

Mounted within the rail is a horizontally disposed table 10 having clearance between it and the rail around its periphery so that the table may be vibrated. The table is provided at one end with recesses 11 to receive racers which may rest therein. This section of the table forms a starting zone. The far end of the table adjacent the gate is the goal. The table is supported upon four springs 12 which in turn rest upon the heads of screws 13 threaded in openings in the angle member 5; the lower end of the screws are provided with suitable means for turning the latter, such as kerfs. Wing nuts 14 act as jam members to lock the screws in any adjusted position. The springs float the table.

Journalled upon the bridge members 8 is a shaft 15, upon which is mounted a fly wheel 16 and an eccentric 17. The end of shaft 15 is provided with teeth forming a pinion 18 which meshes with a gear 19. Gear 19 is mounted upon a shaft 20 which is journalled in the base and on a bridge member 8. Shaft 20 extends beyond the base and has secured thereto a hand crank 21 for operating the same. Thus, means is provided for manual operation of the gearing. However, a motor might be substituted for the hand crank. Secured to the under side of the table is a bracket 22 having a strap portion 23 over the eccentric. By rotating the shaft 20, eccentric 17 is rotated and motion communicated to the table, vibrating the latter. The predominating movement is up and down, however, there may also be a side or lateral rocking movement. The table is set so that it has slight inclination from the starting zone 11 downward toward the goal. In the operation of the device, ovoid racers, one of which is indicated in Fig. 5 are placed in the depressions. The hand crank 21 is now revolved causing the table to vibrate. This projects the racers from the depressions, and they start to roll toward the goal end by reason of gravity. The vibration of the table causes the racers to jump and roll in tortuous paths so that it is impossible to determine which racer will reach the goal first. The guard rail 9 prevents the racers from leaving the table. The racers may be colored or otherwise marked so that they can be distinguished between, and the shape may be varied.

Although, I have herein shown a game which has a manually operated motor, it is obvious that the device may be made to be operated by an electric motor or any other similar prime mover. In such cases, the details of the gearing and mounting may be changed to accord with good mechanical practice. The dimensions of the machine may also be varied.

What I claim is:

1. A toy comprising a horizontally disposed table which is inclined longitudinally and provided near its higher end with a plurality of racer starting recesses, springs for floating the table so that it may be vibrated in all directions, motor mechanism including an eccentric and connecting rod for vibrating the table in an up and down direction, ovoid racers adapted for insertion within said recesses and to be discharged therefrom, and guards converging to an opening for the passage of a single racer at the low end of said table.

2. A toy comprising a horizontally disposed table which is inclined longitudinally and provided near its high end with a plurality of racer starting recesses, means for floating the table so that it may be vibrated, motor mechanism connected to said table to vibrate the latter, ovoid racers adapted for insertion within said recesses and to be discharged therefrom, and guards converging to an opening for the passage of a single racer at the low end of said table.

3. A toy comprising a horizontally disposed table which is inclined longitudinally and provided near its high end with a starting zone, springs for floating the table so that it may be vibrated in all directions, motor mechanism including an eccentric and connecting rod for vibrating the table in an up and down direction, ovoid racers adapted for disposition within said starting zone and to be discharged therefrom, and a goal at the low end of said table.

4. A toy comprising a horizontally disposed table which is inclined longitudinally and provided at its high end with a racer starting zone, springs for floating the table so that it may be vibrated in all directions, motor mechanism including an eccentric and connecting rod for vibrating the table, rolling racers adapted for disposition within said starting zone and to be discharged therefrom, and guards converging to an opening for the passage of a single racer at the low end of said table.

5. A toy comprising a horizontally disposed table which is inclined longitudinally and provided at its high end with a racer starting zone, means for floating the table so that it may be vibrated up and down, motor mechanism connected to said table to vibrate the latter, rolling racers adapted for disposition within said starting zone and to be discharged therefrom, and a goal at the low end of the table.

6. A toy comprising a horizontally disposed table which is inclined longitudinally and provided near its higher end with a plurality of recesses, means for floating so that it may be vibrated up and down, motor mechanism connected to said table to vibrate the latter, rolling racers adapted for insertion within said recesses and to be discharged therefrom, and guards converging to an opening for the passage of a single racer at the lower end of said table.

In witness that I claim the foregoing I have hereunto subscribed my name this 3rd day of April, 1925.

FREDERICK KLINE.