

(No Model.)

J. MEINDL.
TOY BOWLING ALLEY.

No. 418,737.

Patented Jan. 7, 1890.

FIG. 1

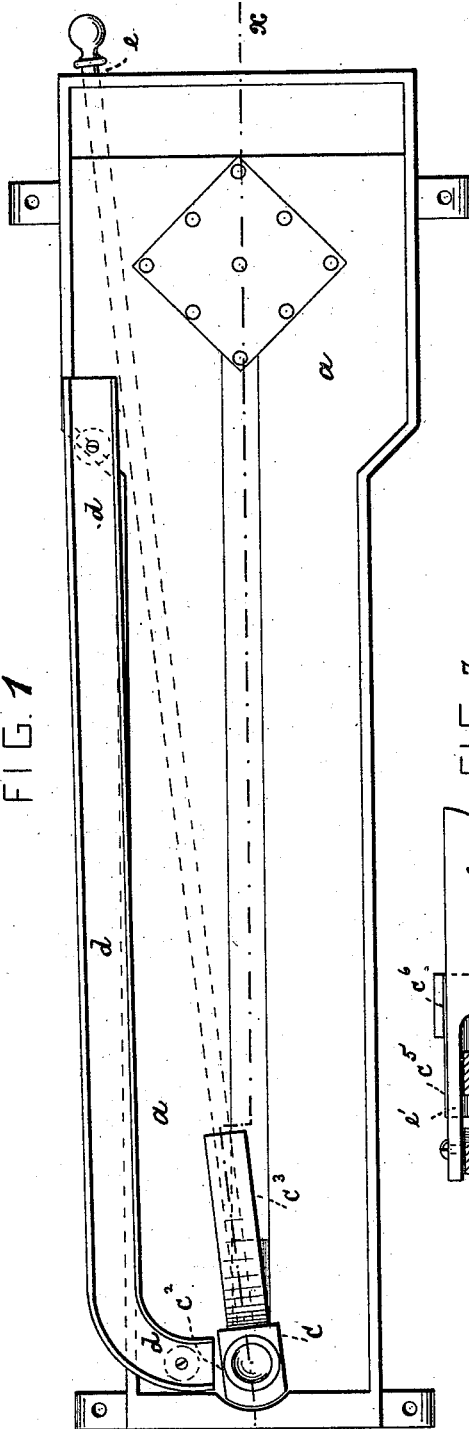


FIG. 3

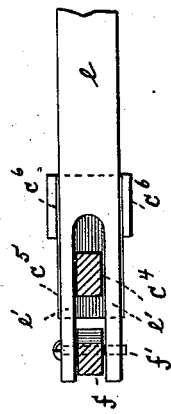
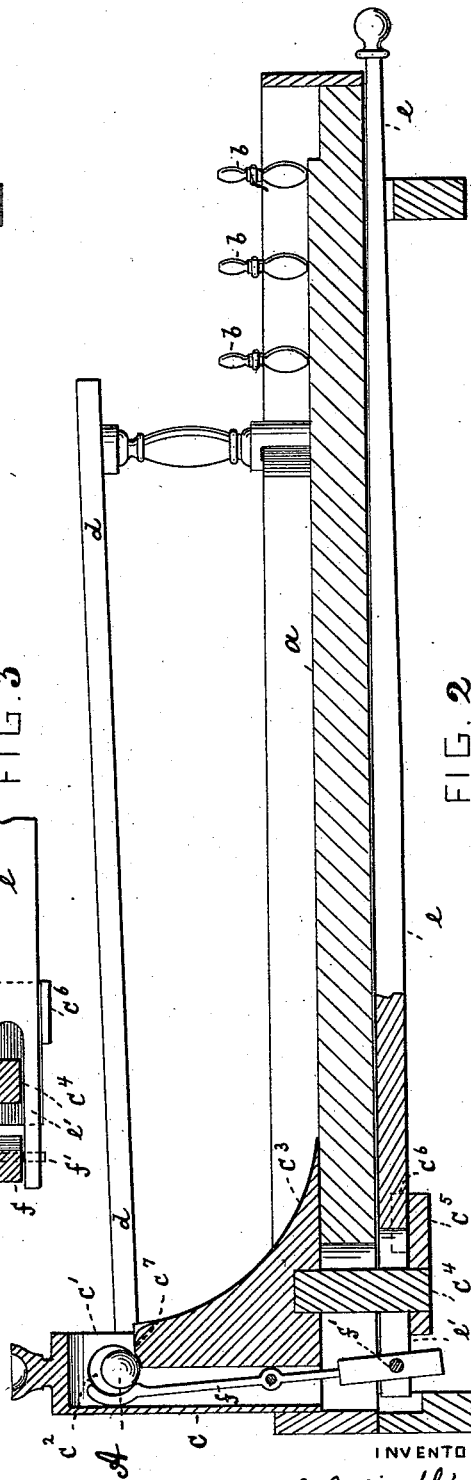


FIG. 2



WITNESSES

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JOSEPH MEINDL, OF STAPLETON, NEW YORK.

TOY BOWLING-ALLEY.

SPECIFICATION forming part of Letters Patent No. 418,737, dated January 7, 1890.

Application filed September 14, 1889. Serial No. 323,959. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MEINDL, of Stapleton, Richmond county, New York, have invented an Improved Toy Bowling-Alley, of which the following is a specification.

This invention relates to a toy bowling-alley in which the propelling devices are placed at the rear of the game-board and are directed and operated by means of a hand-rod that extends forward beneath the game-board.

The invention consists in the various features of improvement, more fully pointed out in the claims.

In the accompanying drawings, Figure 1 is a top view of my improved toy bowling-alley. Fig. 2 is a vertical longitudinal section of the same on line *x x*, Fig. 1; and Fig. 3 a top view of the rear end of hand-rod *e*.

The letter *a* represents the game-board of a toy bowling-alley, in which the usual platform for the reception of the pins *b* is in front or next to the operator. At the rear of the game-board there is a movable chute or conveyer *c*, similar to a tower and having a top opening *c'* at its front and one *c''* at its side. Below the front opening *c'* the conveyer is provided with the inclined plane *c''*, while opposite to the side opening there ends the usual return-ball conveying-gutter *d*. This gutter extends from the front toward the rear and is curved at its rear end, so as to there face opening *c''*.

The conveyer *c* is provided at its lower end with a pin *c''*, extending through a slot in the game-board *a* and embraced by the slotted end of a hand-rod *e*. This hand-rod is placed under the game-board and reaches beyond its front end, so as to be accessible to the player.

To the rear end of rod *e* there is pivoted by pin *f''* a lever *f*, which extends upward within conveyer *c*, and which constitutes the propeller.

It will be seen that by vibrating the rod *e* to the right or left on pivot *f''* it will, by taking pin *c''* along, cause the conveyer to be swung to either side. Thus the inclined plane *c''* may be so directed as to stand in line with

any of the pins *b*. In order to prevent any dead motion between the arms *e'* of rod *e* and the pin *c''*, the latter may be provided with a foot *c''*, having cheek-pieces *c''*, that engage the sides of rod *e*. By thrusting the hand-rod *e* inward the upper end of propeller *f* is thrown back, while by thrusting the hand-rod outward the propeller is suddenly thrown forward. The hand-rod *e* therefore serves the double purpose of setting the conveyer and operating the propeller.

The operation of the game will be readily understood. The ball *A*, thrown into gutter *d*, will, through opening *c''*, enter conveyer *c*. Here it will rest upon a shoulder *c''* of the inclined plane *c''*. Of course the propeller *f* must be thrown back before the ball can enter the conveyer. By means of the hand-rod *e* the conveyer is now aimed at any of the pins *b*. Next the rod *e* is pushed outward to operate the propeller, which will eject the ball through opening *c'*. The ball will roll down the inclined plane *c''* and throw over the pins with which the plane has been brought into line. Thus an amusing game is produced which the player can direct in all its parts without leaving his chair.

What I claim is—

1. The combination of a game-board with a pivoted conveyer at the rear end thereof, a propeller within the conveyer and with a hand-rod extending beneath the game-board and connected to the propeller and also to the conveyer, the hand-rod being adapted to turn the conveyer laterally and to operate the propeller backward and forward, substantially as specified.

2. The combination of a game-board with a conveyer *c*, having pin *c''*, foot *c''*, and cheeks *c''*, and with a pivoted propeller *f* and a slotted hand-rod *e*, that engages pin *c''* and is pivoted to the propeller, substantially as specified.

JOS. MEINDL.

Witnesses:

F. V. BRIESEN,
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