

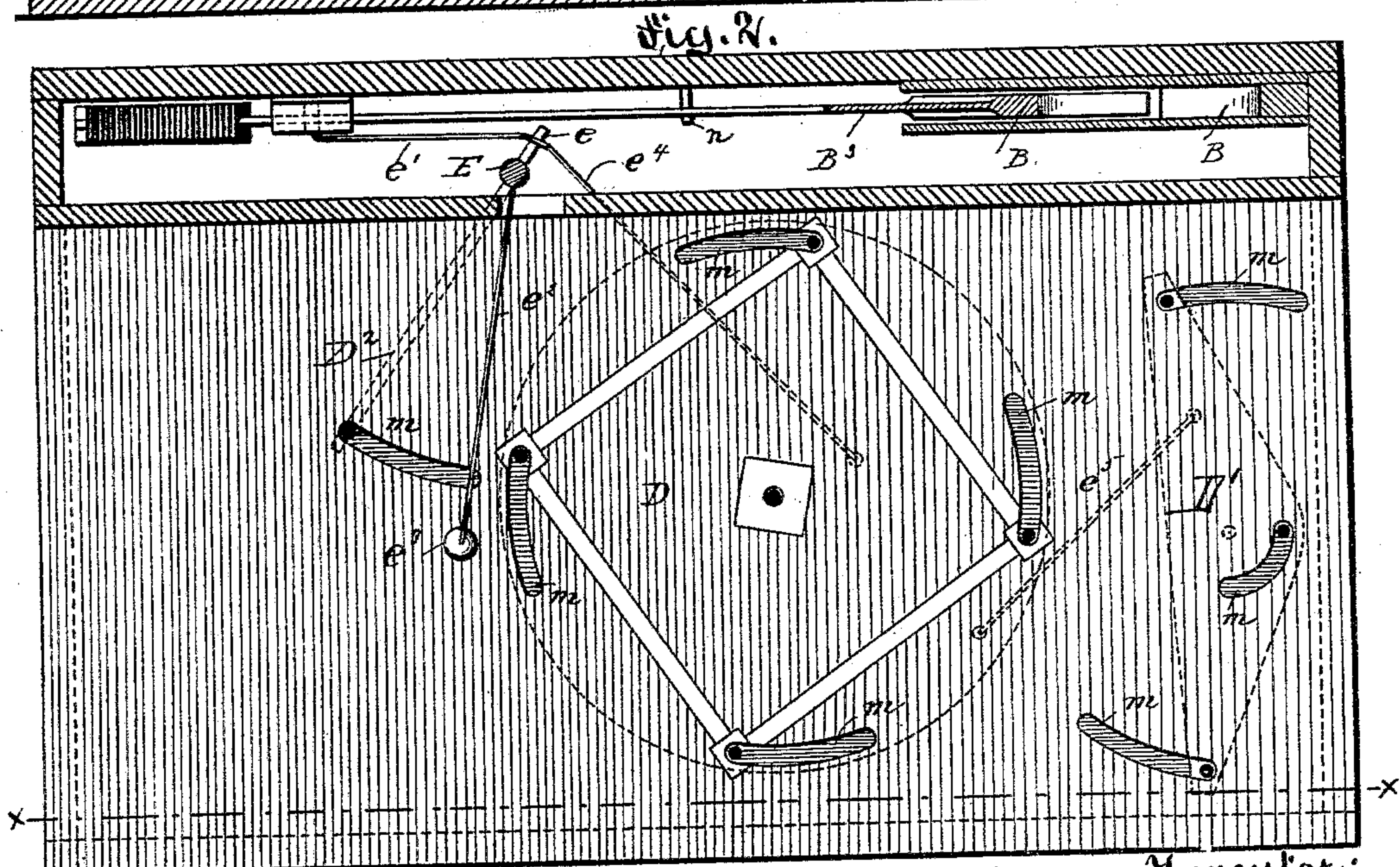
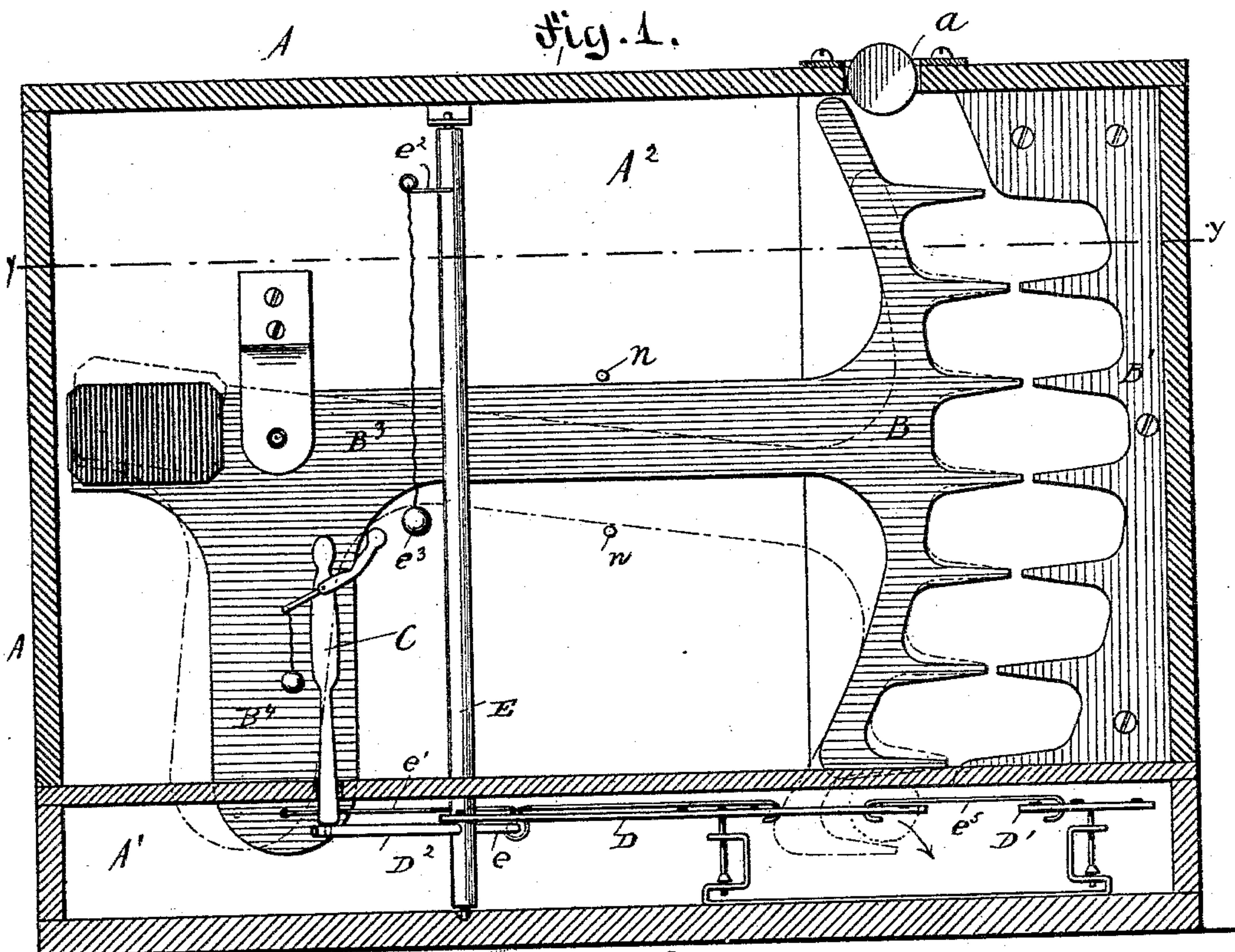
(No Model.)

2 Sheets—Sheet 1.

E. DEL VALLE.  
TOY BANK AND COIN OPERATED GAME.

No. 414,633.

Patented Nov. 5, 1889.



Witnesses:

W. H. Rosenbaum.  
Martin Petry.

Inventor:  
Eduardo del Valle  
by Goepel & Haeggen  
ATTORNEYS.



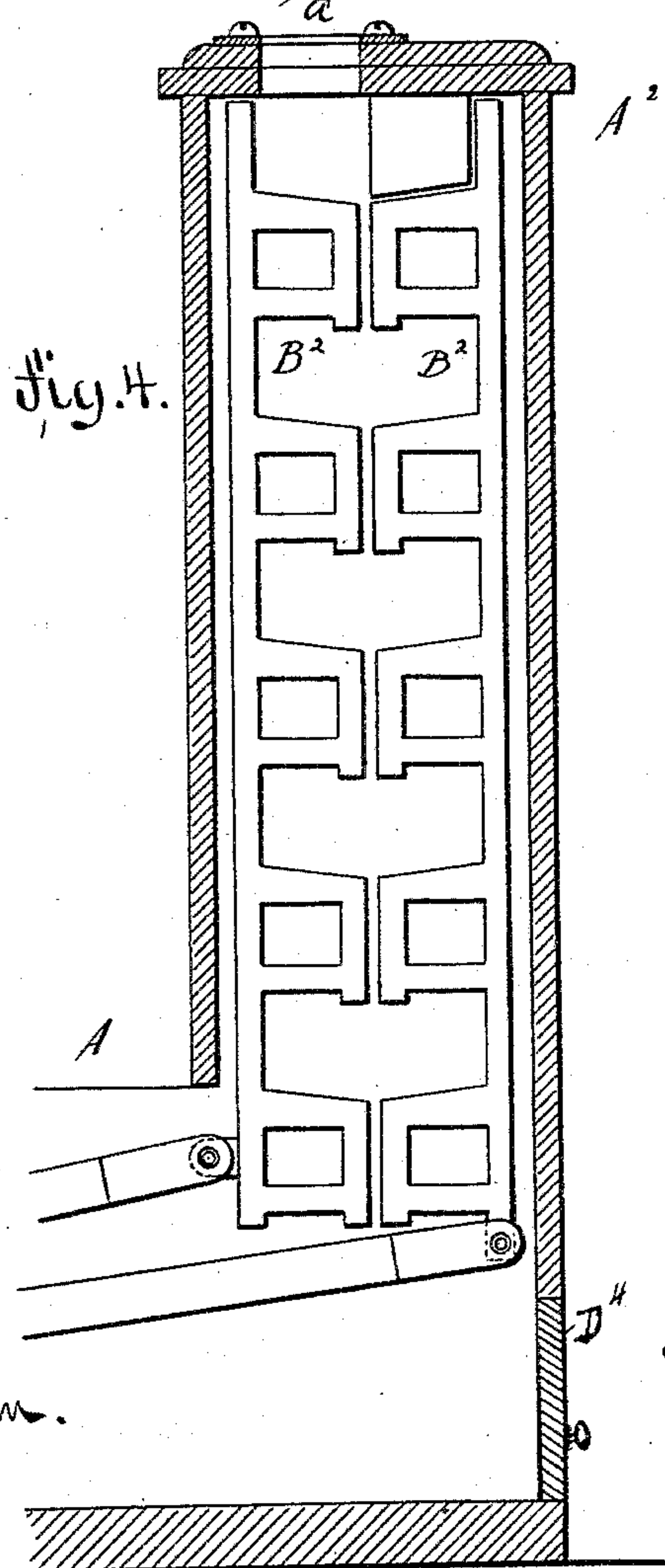
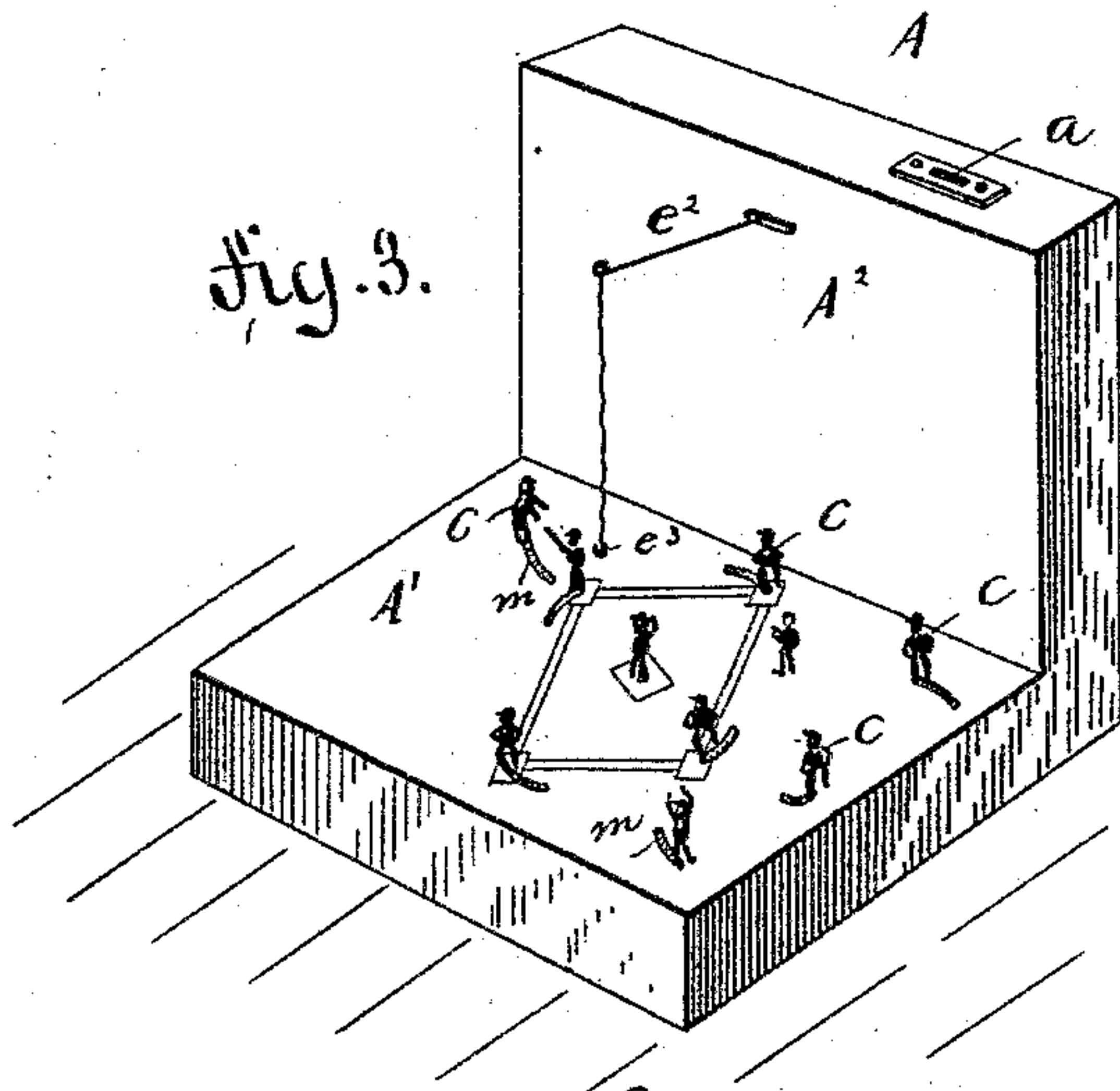
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*F. H. Rosenbaum.*  
*Martin Petry.*

INVENTOR

*E. Del Valle*

BY

*Goepel & Naeggen*

ATTORNEYS



# UNITED STATES PATENT OFFICE.

ELISEO DEL VALLE, OF BROOKLYN, NEW YORK, ASSIGNOR TO RICHARD TEICHMANN, OF SAME PLACE.

## TOY BANK AND COIN-OPERATED GAME.

SPECIFICATION forming part of Letters Patent No. 414,633, dated November 5, 1889.

Application filed April 24, 1889. Serial No. 308,439. (No model.)

*To all whom it may concern:*

Be it known that I, ELISEO DEL VALLE, of Brooklyn, in the county of Kings and State of New York, a citizen of Spain, have invented certain new and useful Improvements in Combined Toy Savings-Banks and Coin-Operated Games, of which the following is a specification.

The object of this invention is to furnish an improved toy for children's use, which combines the advantages of a savings-bank with a suitable game that is operated automatically by the dropping of a coin into the coin-chute; and the invention consists of a combined savings-bank and game operated automatically by the dropping of a coin into a step-shaped coin-chute, said coin-chute being formed by a tooth-shaped end of a balanced lever and the tooth-shaped face of a piece, the latter either fixed in place or pivotally secured to the inner wall of the casing, the opening or passage in the chute being a continuous serpentine channel, through which the coin passes in downward direction, moving by gravity the movable balanced step-shaped piece, which, by the lever and link connection with the different oscillating platforms, oscillates the latter and the figures supported on the same, so as to represent a suitable game.

In the accompanying drawings, Figure 1 represents a vertical longitudinal section of my improved savings-bank and coin-operated game on line  $x x$ , Fig. 2, the rear part of the same being an elevation. Fig. 2 is a horizontal section on line  $y y$ , Fig. 1. Fig. 3 is a perspective view of the entire toy savings-bank and coin-operated game, and Fig. 4 is a sectional elevation of a modified form of coin-chute.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the inclosing-casing of my improved toy savings-bank and coin-operated game. The casing A is made of a base part  $A^1$  and an upright rear part  $A^2$ , which latter is provided at its top with a coin-slot  $a$ , through which coins for operating the game are dropped. On the rear wall  $A^2$ , vertically below the coin-slot, is arranged a serpentine coin-chute, which is

formed either of a movable toothed piece B and a fixed toothed piece  $B'$ , the teeth of which are tapered, as shown in Fig. 1, or of two movable and step-shaped pieces  $B^2 B^2$ , as shown in Fig. 4. The movable piece B is applied to the end of a fulcrumed end-weighted lever  $B^3$ , the weight balancing the movable step-shaped piece B, so that when the coin is dropped from the slot upon the upper step or tooth of the piece B said piece B is lowered, so that the coin has a chance to roll or drop upon the first step or tooth of the fixed piece  $B'$ , from which it rolls onto the second step or tooth of the movable piece B, tilting the same again, and so on alternately until it arrives at the lower end of the piece B and is dropped upon the bottom of the casing, as indicated by the arrow in Fig. 1. The oscillating piece B, which is tilted by the motion of the coin through the serpentine chute formed by the pieces B  $B'$ , serves to operate a number of figures C, which are supported on suitable platforms or levers, said figures being arranged in imitation of an outdoor game.

In the drawings a base-ball game is represented, in which four of the figures, representing the basemen and striker, are supported on a disk-shaped platform D, three figures representing the outfielders on a triangular platform  $D'$ , while the figure representing the catcher is supported on a lever-arm  $D^2$ , which is attached to a vertical spindle E, said spindle turning in bearings at the top and bottom of the vertical part  $A^2$  of the casing, and being connected with a downwardly-extended arm  $B^4$  of the fulcrumed lever  $B^3$  by a connecting-rod  $e^1$ , which engages an arm  $e$  of the vertical spindle E. To the upper part of the spindle is applied an arm  $e^2$ , from which is supported by a string a ball  $e^3$ , which swings as soon as the movable piece B is set in motion by the dropping of a coin. A connecting-rod  $e^4$  connects the crank-arm  $e$  with the centrally-pivoted platform D so as to oscillate the same, said platform being again connected by a pivot-rod  $e^5$  with the triangular platform  $D'$  so as to oscillate the latter and the figures on said platform. The figures C are guided in arc-shaped slots  $m$  of the top part of the base-frame  $A^1$ , the figures being



kept moving to and fro in said slots as long as the coin passes through the serpentine chute formed by the pieces B B'. Each time a coin is dropped the figures are moved in imitation of a base-ball game.

Instead of arranging ten figures, such as are required for representing a game of base-ball, any other number of figures corresponding to other games may be arranged—such as cricket, lawn-tennis, croquet, and the like—in which case only the special arrangement of the figures and the operating mechanism varies.

When two movable pieces B<sup>2</sup> B<sup>2</sup> are used for forming the coin-chute, the second movable piece is arranged to operate a second fulcrum and weighted lever, to which said second movable piece B<sup>2</sup> is pivoted, as shown in Fig. 4. This arrangement may be useful in some cases, as one lever B<sup>2</sup> may be used for operating one set of figures belonging to a game while the other lever B<sup>2</sup> operates the other set of figures. A suitable door D<sup>4</sup> is arranged in the bottom of the side wall of the casing, which is closed by a lock and opened from time to time for removing the coins in the same manner as in other toy savings-banks.

For operating the game, the coin is dropped through the coin-chute and passed alternately from one step or tooth of the piece B to the next step or tooth of the adjoining piece B', the coin moving by gravity the movable piece B, so that the same oscillates between two stop-pins *n* and forms thereby a motor for moving the figures on the platforms which are connected with the operating-lever B<sup>3</sup> and with each other, as the case may be. In this manner a very amusing combination of savings-bank with a coin-operated game is obtained, which latter induces the dropping of coin and tends to cultivate a habit of economy. In place of coins, marbles may be used.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of a supporting-casing having a coin-slot and coin-chute formed of step-shaped or toothed pieces, one of said pieces being arranged in connection with a fulcrumed and weighted lever, and a number of figures operated by a lever-connection from

said fulcrumed lever, substantially as set forth.

2. The combination of a supporting-frame having a coin-slot in its top, a coin-chute below said coin-slot, the coin-chute being formed by step-shaped or toothed pieces, a fulcrumed and weighted lever applied to one of said coin-chute pieces, figures moving in slots in the top of the base-frame, and mechanism connecting the fulcrumed lever with the figures, so that by the dropping of the coin the figures are set in motion until the coin has passed through the chutes, substantially as set forth.

3. The combination of a supporting-casing having an upright rear portion provided with a coin-slot in its top and a horizontal base portion having slots in its top, a coin-chute formed of a fixed step-shaped or toothed piece and a movable step-shaped or toothed piece, a fulcrumed and weighted lever applied to said movable piece, an intermediate pivoted spindle connected with an arm of the fulcrumed lever, pivoted platforms connected by pivot-links with said spindle, and figures supported on said platforms and an arm of said spindle, substantially as set forth.

4. The combination of a casing provided with a coin-slot in its top, a weighted lever having a toothed end and a dependent arm, a tooth-faced piece opposite the toothed end of said lever, a vertical spindle having an arm extending therefrom, a rod connected with the dependent arm of the lever and engaging the arm of the spindle, centrally-pivoted platforms with figures thereon, said platforms being connected by rods with the arm of the spindle, and a ball suspended by a string from an upper arm of the spindle, substantially as described.

5. The combination of a casing having a slot therein, a balanced lever having a toothed end, a separate piece having a toothed face opposite said end, and a coin-receptacle, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ELISEO DEL VALLE.

Witnesses:

PAUL GOEPEL,

JOHN ALONZO STRALEY.