

Oct. 4, 1932.

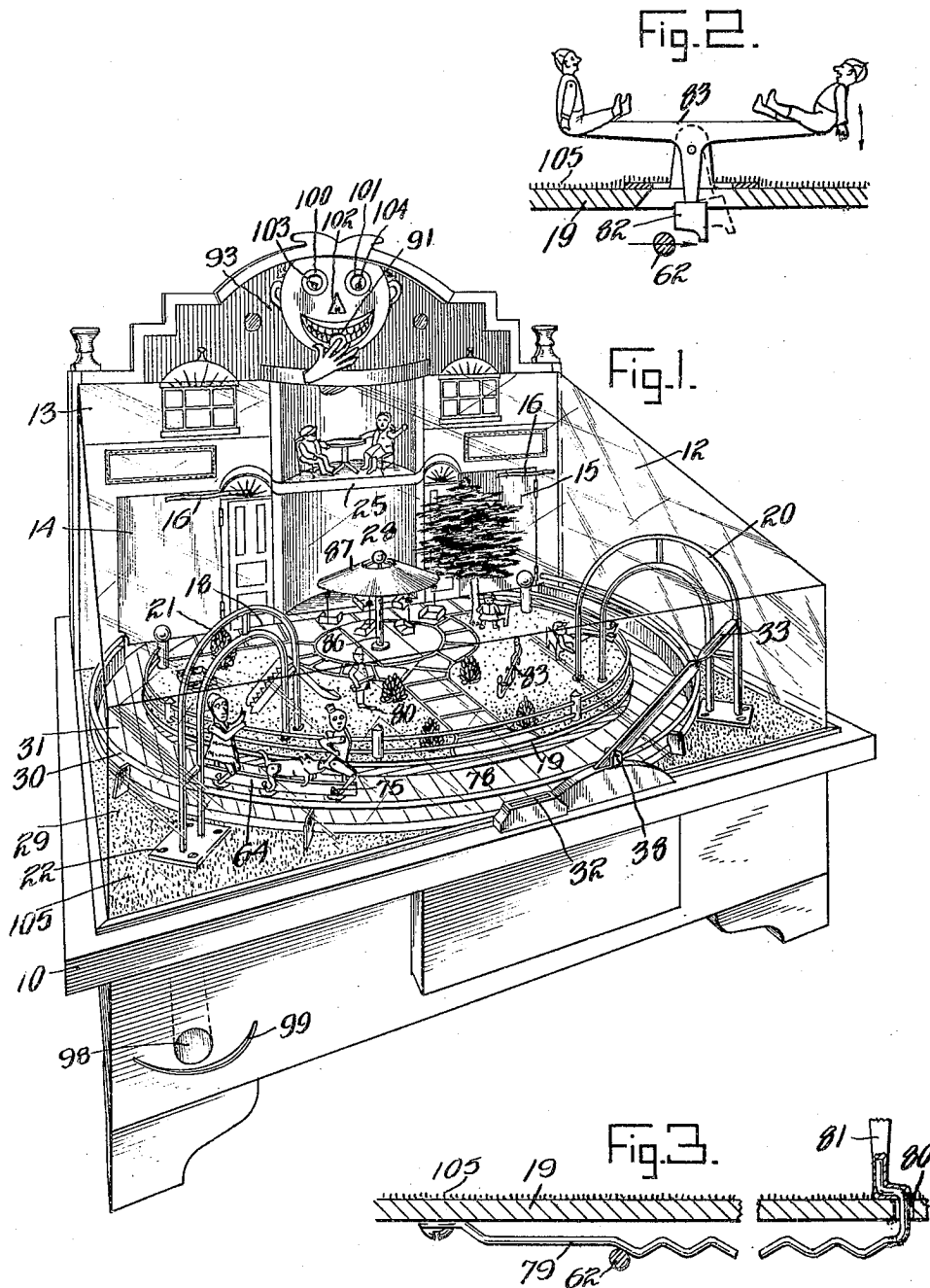
H. E. WARMOTH

1,880,553

COMBINED VENDING AND AMUSEMENT DEVICE

Filed Feb. 20, 1931

4 Sheets-Sheet 1



INVENTOR  
*Henry E. Warmoth*  
BY *[Signature]*  
ATTORNEY

Oct. 4, 1932.

H. E. WARMOTH

1,880,553

COMBINED VENDING AND AMUSEMENT DEVICE

Filed Feb. 20, 1931

4 Sheets-Sheet 2

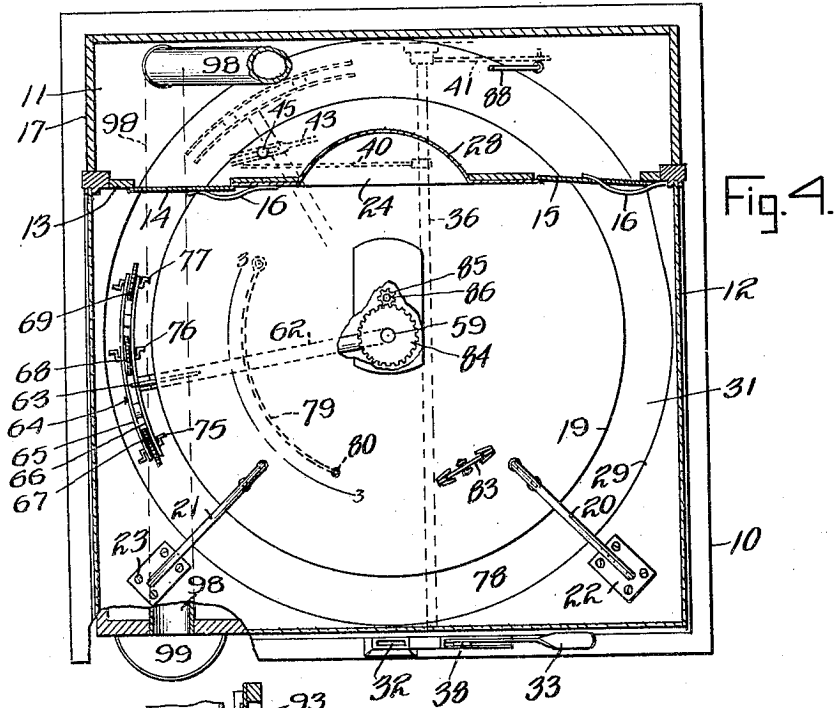


Fig. 4.

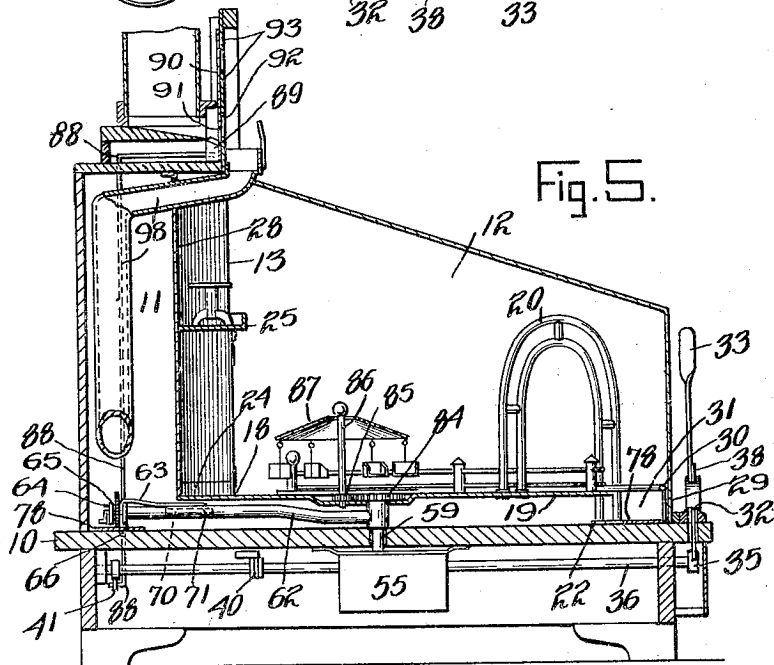


Fig. 5.

INVENTOR  
Henry E. Warmoth  
BY  
*[Signature]*  
ATTORNEY

Oct. 4, 1932.

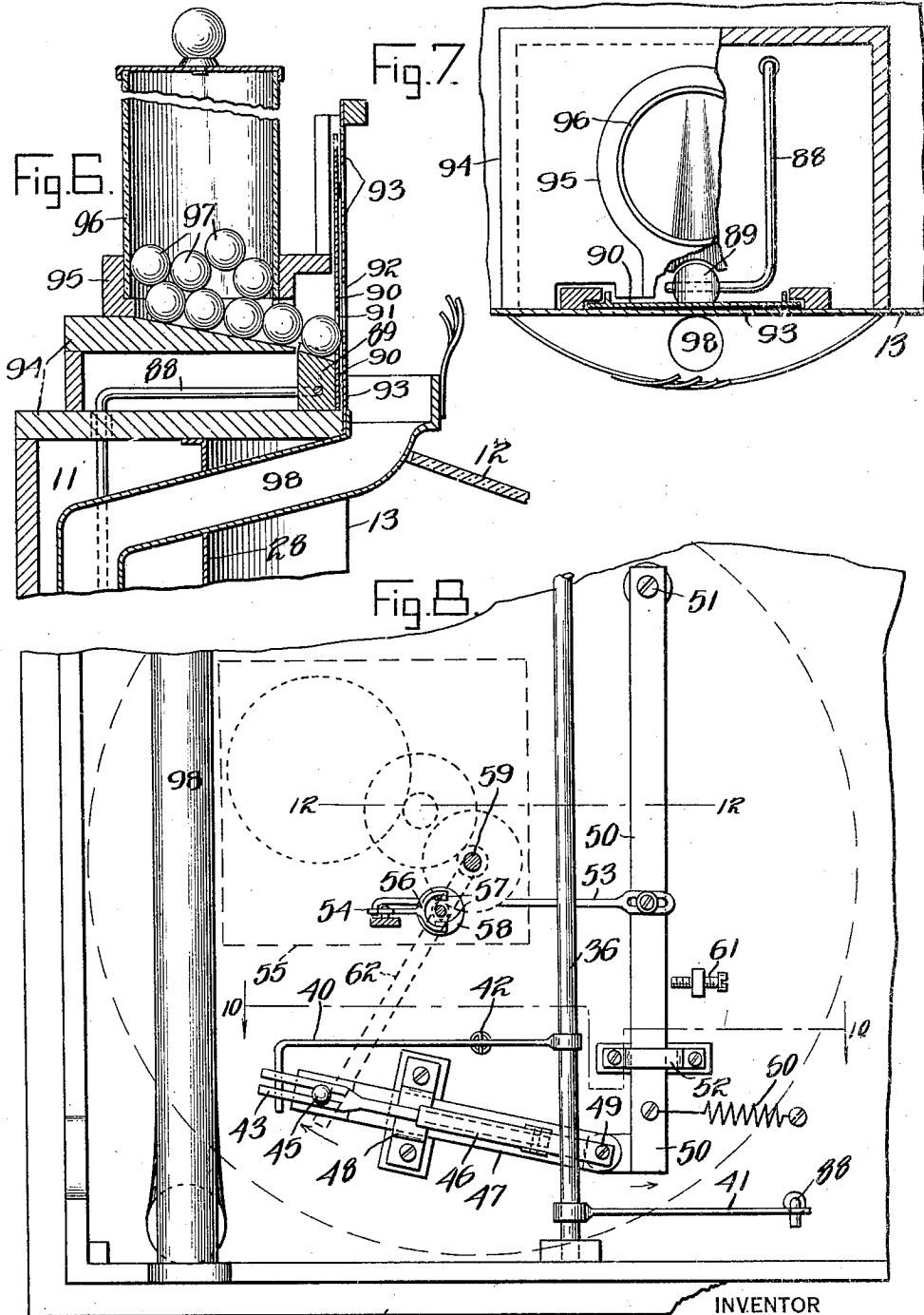
H. E. WARMOTH

1,880,553

COMBINED VENDING AND AMUSEMENT DEVICE

Filed Feb. 20, 1931

4 Sheets-Sheet 3



INVENTOR  
Henry E. Warmoth  
BY  
*W. B. Ford*  
ATTORNEY

Oct. 4, 1932.

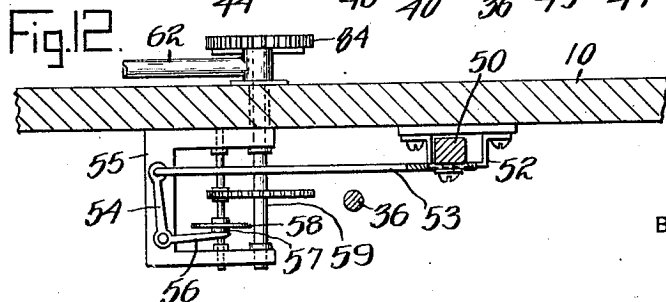
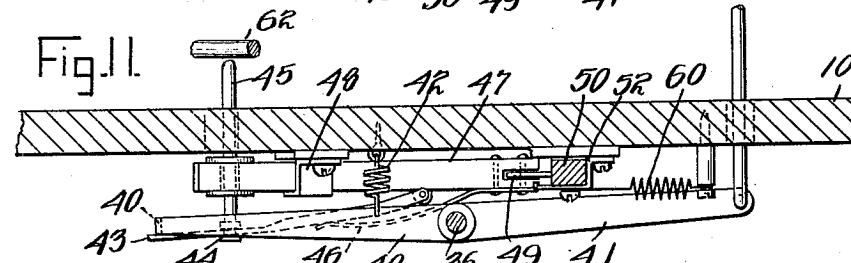
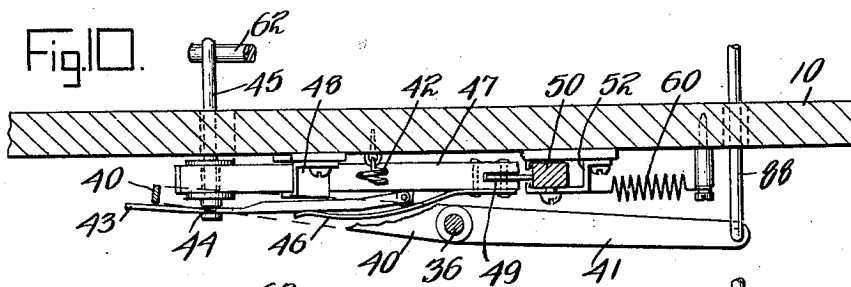
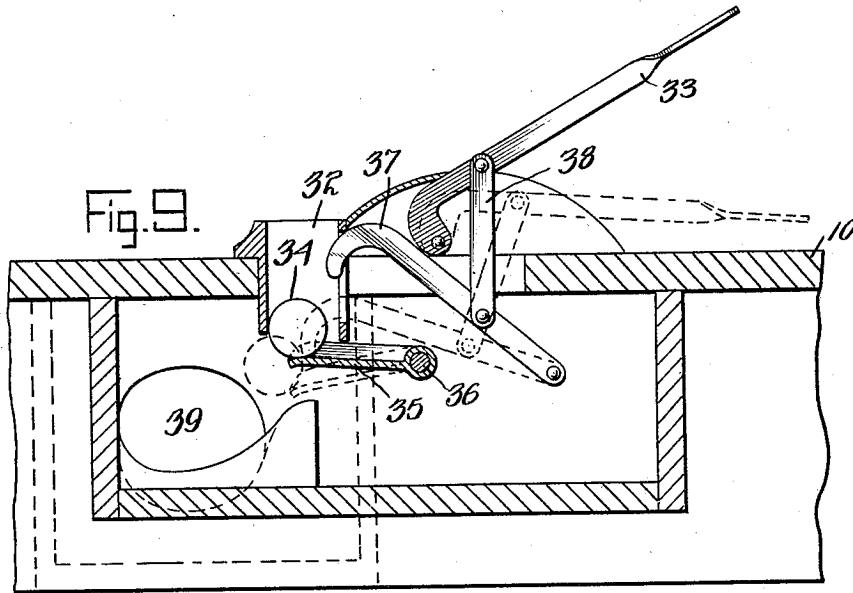
H. E. WARMOTH

1,880,553

COMBINED VENDING AND AMUSEMENT DEVICE

Filed Feb. 20, 1931

4 Sheets-Sheet 4



INVENTOR  
Henry E. Warmoth  
BY  
*W. S. Sanford*  
ATTORNEY

# UNITED STATES PATENT OFFICE

HENRY E. WARMOTH, OF STILESVILLE, INDIANA, ASSIGNOR OF ONE-HALF TO PAUL DAUGHERTY, OF INDIANAPOLIS, INDIANA

## COMBINED VENDING AND AMUSEMENT DEVICE

Application filed February 20, 1931. Serial No. 517,333.

This invention relates to devices for vending commodities such as chewing gum, candy balls, etc. and to amusement devices operated in conjunction with the vending devices. The invention further relates more specifically to coin operated devices of this character.

An object of the invention is to provide a dispensing device having amusement features associated therewith, such amusement features adding incentive to the purchase of the commodities.

The amusement devices of the invention are secured by providing jointed figurines or puppets and other devices which are actuated in connection with dispensing of the commodity.

Referring to the accompanying drawings, which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a perspective view as seen from the front,

Figure 2 is a detail consisting of a teeter-totter with movable figurines thereon,

Figure 3, a section on line 3—3 of Figure 4 showing in detail the device for operating one of the figurines,

Figure 4, a plan view partially in section of a portion of the device,

Figure 5, a longitudinal section,

Figure 6, an enlarged sectional detail of the commodity dispensing device,

Figure 7, a plan view partially in section of that portion of the device shown in Figure 6,

Figure 8, a bottom view of a portion of the device,

Figure 9, a detail in section of the lever mechanism for operating the coin controlled mechanism,

Figure 10, a section on line 10—10 of Figure 8,

Figure 11, a section similar to Figure 10 but showing the parts in different positions, and

Figure 12, a section on line 12—12 of Figure 8, showing the brake for stopping operation of the device at the end of a cycle.

In the drawings numeral 10 indicates the base of the device having a rear compartment

11 and a front compartment 12, the front compartment having its top, sides and front preferably made of glass so as to make the interior visible to the operator. The compartments 11 and 12 are divided by a partition 13 in which partition are doors 14 and 15, the door 14 swinging toward the front compartment and the door 15 swinging toward the rear, the doors being provided with closing springs 16. The rear compartment 11 is provided with a door 17 to provide easy access for the purpose of repairs, etc. A circular platform 19 is secured to the partition 13 at its center portion 18, the platform being raised a slight distance from the base of the machine. The platform 19 is supported at its front edge by two arched supports 20 and 21 having their ends 22 and 23 secured in the base 10 and spaced out a distance from the rim of the platform 19. The purpose of so mounting the platform 19 will later appear. The middle portion of the partition wall 13 is curved back to provide a miniature stage 24 and above this stage is a miniature balcony upon which are placed figurines 26 and 27 or any other suitable attractive device depicting familiar scenes. The curved portion 28 serves to strengthen the partition 13.

A fence 29 is spaced from the circular platform 19 and extends from the door 14 to the door 15 and a railing 30 is secured above the fence. A run way 31 is provided inside the fence 29.

A coin operated mechanism is shown in detail in Figure 9. This is operated by a control lever 33. The coin engages the end of a grooved lever 35 which is attached to a shaft 36. A link 38 is attached at one end to the lever 33 and at its other end to a lever 37 having a hook on its free end. When the lever 33 is pressed down it carries the lever 37 to cause the free end to engage the coin and rock the shaft 36. When the lever has been pressed down to the dotted line position in Figure 9 the coin is forced off the end of the slotted lever 35, and into a coin receptacle 39. The shaft 36 controls operation of the amusement devices enclosed within the glass cabinet 12 and also operates means for eject-

ing the candy, chewing gum or other commodity.

Operation of the amusement devices is effected through a release arm 40 secured on the shaft 36 and operation of the commodity dispensing device is secured by means of a dispensing arm 41 secured on the shaft 36. A spring 42 secured to the arm 40 tends to return the shaft 36 to inoperative position after it has been rotated by the coin control mechanism. As shown in Figures 8, 10 and 11 the bent end of the release lever 40 engages a fork 43 which engages an annular groove 44 in the lower end of a pin 45 which pin is slidable through the base 10. A spring 46 pressing beneath the fork 43 normally holds it in elevated position. The fork 43, release pin 45 and spring 46 are all mounted on a bar 47 which bar is slidable mounted in a suitable guide 48, the guide being secured to the under side of the base 10. The bar 47 is connected at 49 with a brake control lever 50 which lever is pivoted at 51 to the base of the machine and is supported by a guide bracket 52 near its outer or movable end. A link 53 is connected at one end to the lever 50 and at its other end to an arm 54 of a bell crank lever. The other arm 56 of the bell crank lever is padded with friction material 57 which engages beneath a brake disc 58. The brake disc is mounted on a shaft journaled in the housing of the motive unit 55. The shaft just mentioned is connected by suitable gearing with the main motive shaft 59, this shaft being driven by any suitable motor means with suitable speed increasing gears shown in dotted lines in Figure 8. This motor may be a spring motor of any suitable construction housed within the unit 55 or if preferred an electric motor may be used. The brake control lever 50 and the brake 57 are retracted by a brake release spring 60 secured at one end to the base of the machine and at its other end to the lever 50. An adjustable screw 61 determines the distance through which the lever 50 may be retracted to release the brake. The motive shaft 59 has attached to its upper end an arm 62 which extends under the circular platform 19 and approximately to the rim of this platform. The pin 45 normally holds the arm 62 from rotating. A carriage 64 is secured to the arm 62 by means of a hooked spring 63. The carriage consists of a pair of curved members 65 and 66 between which are toothed wheels 67, 68 and 69. The carriage 64 also has a pin 70 on its inner side which engages a hole 71 in the end of the driving arm 62. Movable figurines 72, 73 and 74 having jointed arms, legs and heads are mounted on the carriage 64, the legs, heads, etc. being connected by cranks 75, 76 and 77 with the spur wheels 67, 68 and 69. The surface 78 on the run way 31 over which the carriage travels is pliable so that as the carriage moves the spur wheels will be rotated. Normally the carriage 64 is

held back of the partition 13 within the compartment 11. When the device is set in motion the carriage travels around the runway 31 opening the doors 14 and 15 as it engages them and stops in the dotted lines position shown in Figure 4. The driving arm 62 at one period of its travel engages beneath a crinkled wire 79 which wire is secured at one end to the underside of the platform 19, and its free end passes up through a hole 80 in the platform and has a figure 81 attached thereto, the figure here shown being that of a policeman. As the arm 62 rotates it should be apparent that it will cause a bobbing of the Figure 81. As the driving arm 62 rotates further it contacts with a weight 82 shown in Figure 2 which weight is suspended from the third arm of a teeter-totter 83. After the arm has passed beyond the weight 82 this weight will cause the teeter-totter to continue to swing. The upper end of the shaft 59 carries a spur gear 84 which engages a pinion 85 attached to the lower end of a shaft 86. On the upper end of the shaft 86 is mounted a miniature swing or merry-go-around 87. As will be seen the merry-go-around will be driven at a much greater speed than the arm 62 and in the opposite direction.

The dispensing device, as stated above, is operated by an arm 41. To the outer end of this arm is attached a link 88 which link passes up through the rear compartment and is attached at its upper end to an escapement block 89. To the front side of this block is attached a plate 90 having an aperture 91 which is brought into register with an aperture 92 in the upper section 93 of the partition 13. The compartment 11 has a top 94 upon which is mounted a holding cup 95 into which is inserted a container 96 for the products 97 to be dispensed. As the escapement block 89 is lifted by the rod 88 it brings the product within range of the aperture 92 at which time it rolls or slides into a tube 98 and falls by gravity to a scoop 99 on the front of the machine at which it may be received by the purchaser. The partition 93 has a number of apertures 100, 101 and 102 to indicate eyes and nose of a design painted on the front of the partition. The dispensing escapement plate 90 also has painted designs 103 and 104 to indicate pupils of the eyes of the figure. When the escapement plate 90 is raised the pupils of the eyes are moved about at the rear of the apertures 100 and 101. The device of course may be embellished with any desired design. At the outside of the fence 29 there may be any suitable design to indicate grass as shown at 105.

From the description the operation of the device should be apparent, the purchaser inserts a coin in a suitable slot and operates the injecting lever whereupon the candy, chewing gum or other commodity is delivered to him from the slot or scoop 99, at the same

time the amusement device is set into operation, creating an added incentive to buy additional commodities.

It will be obvious to those skilled in the art that various changes may be made in my device without departing from the spirit of the invention and therefore I do not limit myself to what is shown in the drawings and described in the specification, but only as indicated by the appended claim.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:

The combination of a dispensing and amusement device of the class described comprising a vertical power driven shaft, an arm extending horizontally from said shaft, a platform above said arm, a figurine normally resting on said platform, a crinkled bar having one end secured to the underside of said platform and having the waves of its crinkled portion in the path of movement of said horizontal arm with its free end extending upward through said platform and connected to said figurine to impart a jiggling motion thereto, substantially as set forth.

In witness whereof, I have hereunto set my hand at Indianapolis, Indiana, this 18th day of February, A. D. nineteen hundred and thirty-one.

HENRY E. WARMOTH.

35

40

45

50

55

60

65