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No. 825,555. PATENTED JULY 10, 1906.

P. J. POOL.

SOUVENIR VENDING MACHINE.

APPLICATION FILED MAY 19, 1905.

3 SHEETS—SHEET 1.

Fig. 1.

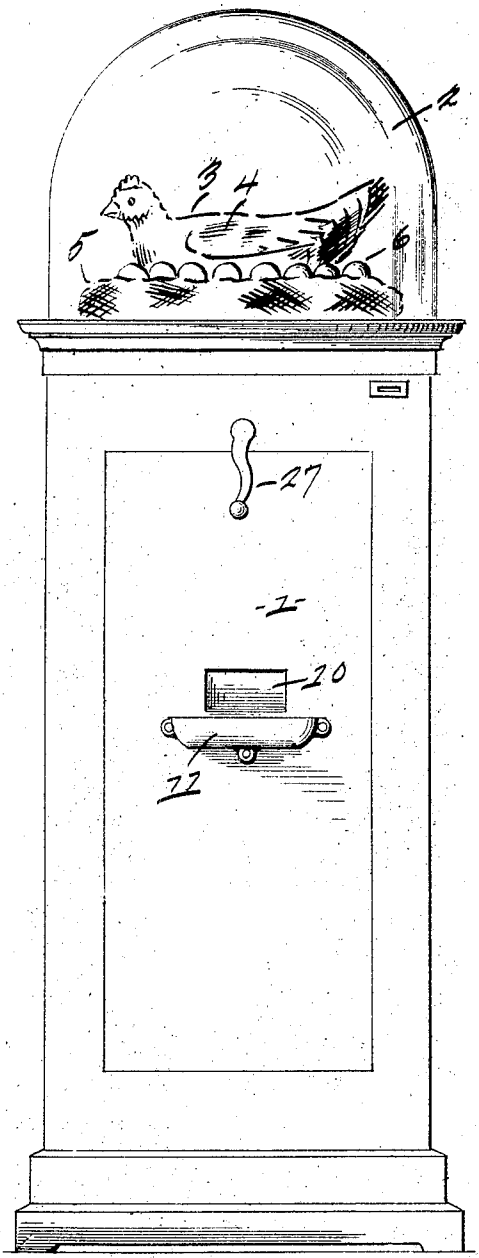
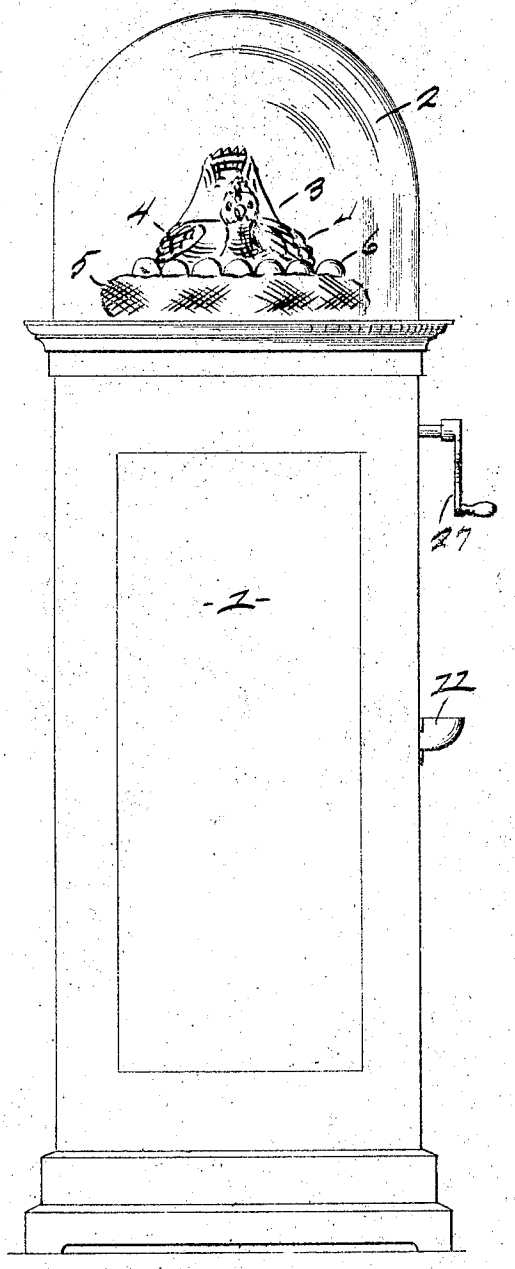


Fig. 2.



WITNESSES.

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INVENTOR.

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By Lindsay & Keller Attys

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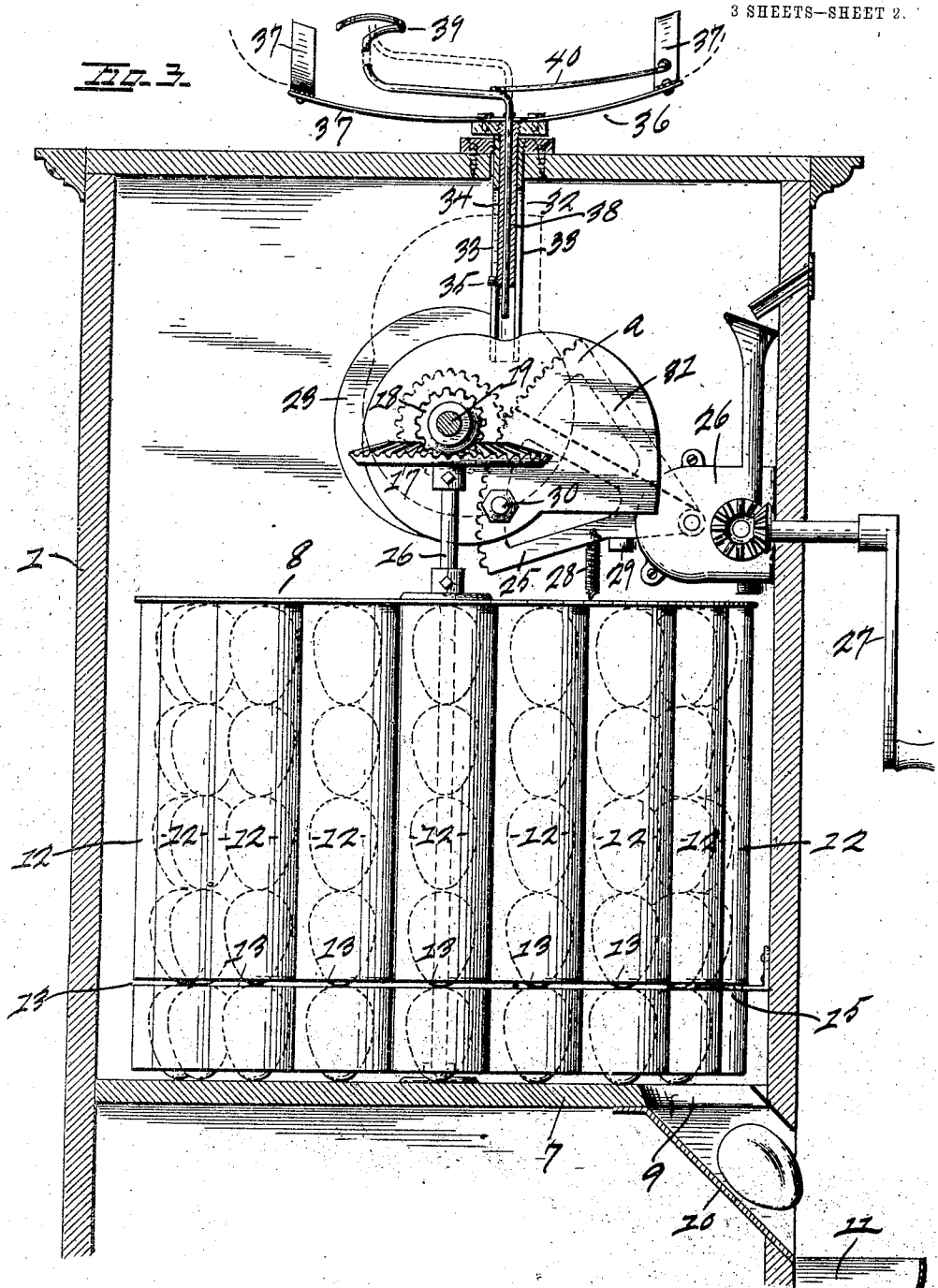
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3 SHEETS—SHEET 2.

Fig. 3.



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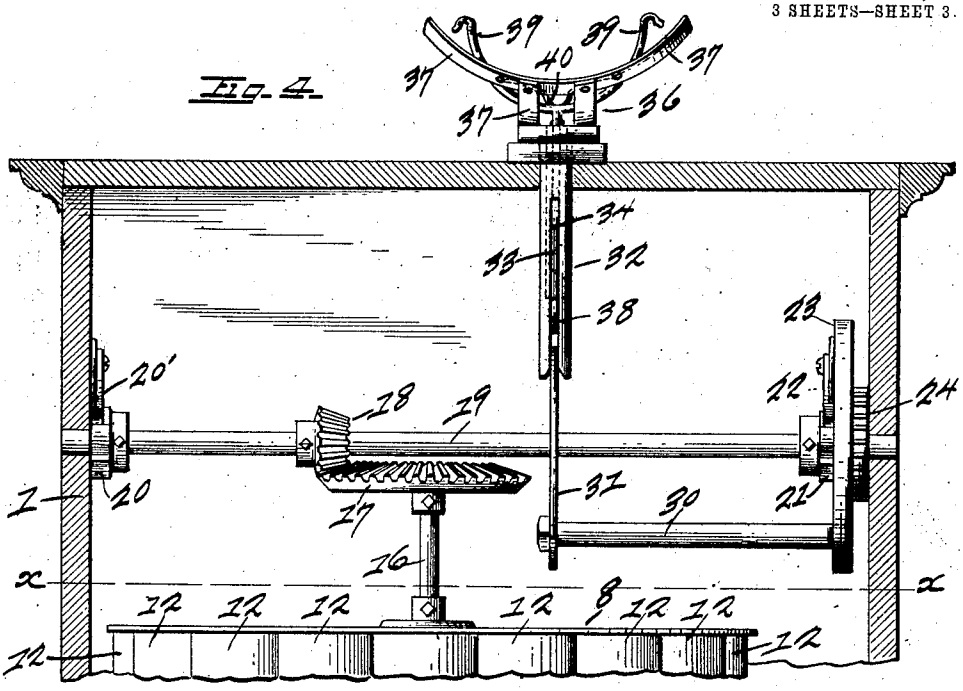
P. J. POOL.

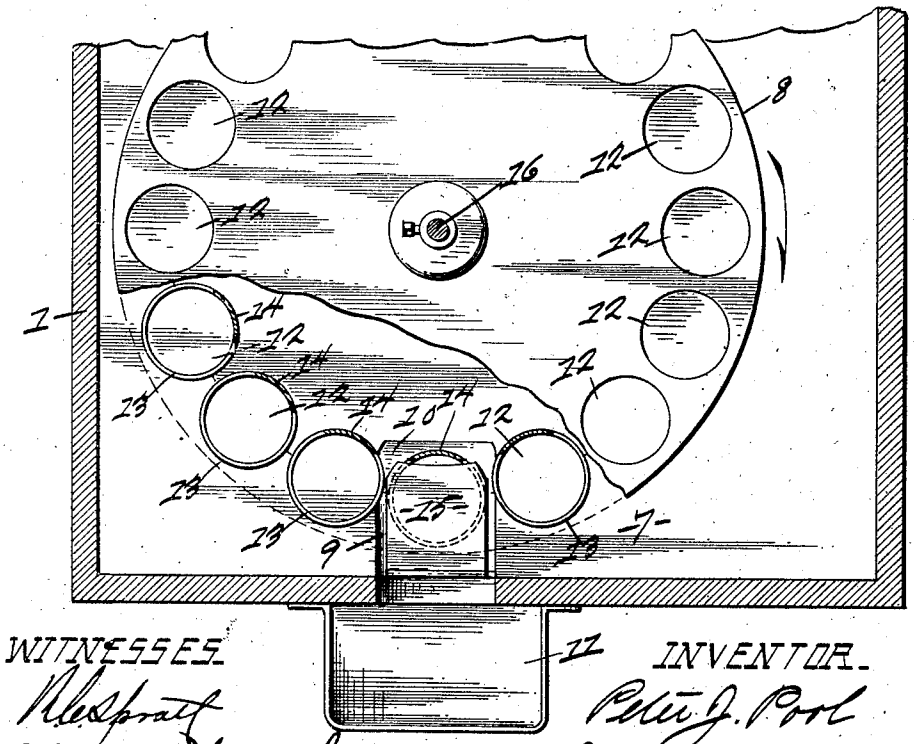
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3 SHEETS—SHEET 3.

Fig. 4.





WITNESSES.

Chas. C. Dekenbaugh.

Fig. 5.

INVENTOR.

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UNITED STATES PATENT OFFICE.

PETER J. POOL, OF TOLEDO, OHIO.

SOUVENIR-VENDING MACHINE.

No. 825,555. Specification of Letters Patent. Patented July 10, 1906.

Application filed May 19, 1905. Serial No. 261,126.

To all whom it may concern:

Be it known that I, PETER J. POOL, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Souvenir-Vending Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

This invention has reference to a vending-machine of novel construction and operation, and it embodies the parts, arrangement, and details hereinafter shown, described, and claimed.

The invention has for its object to provide an article-delivery mechanism within a suitable case which upon operation will deliver a novelty or souvenir in the form of an egg and to mount upon the case containing said mechanism and actuated in connection therewith an animated figure, preferably in the form of a domestic hen, although any other figure associated with or suggestive of an egg—that of a rabbit, for instance—may be employed.

In the accompanying drawings, illustrative of a preferred embodiment of my invention, Figure 1 is a front elevation showing the case for confining the carrier mechanism, the same being surmounted by the figure of a domestic hen. Fig. 2 is a side elevation of the same. Fig. 3 is a section through the case disclosing the carrier and the mechanism for operating the same and also disclosing the mechanism for imparting animated movement to the figure surmounting the case. Fig. 4 is a section through the case at right angles to that of Fig. 3, the same showing the carrier-operating mechanism and the mechanism for operating the figure. Fig. 5 is a plan view, partly in section, of the carrier, the section through the case being on line x x, Fig. 4.

Referring to the details of construction, 1 indicates the case for confining the carrier mechanism, the same being provided at the top with a transparent inclosure 2 for the animated figure 3, in the present instance in the form of a domestic hen, which may be artificially constructed of any suitable material, although I prefer to employ a natural specimen having the wings 4 articulated so as to be capable of movement when engaged by members underneath the same. The figure 3 is preferably surrounded by a nest 5, from which protrude eggs 6, the whole being attractive in appearance. Arranged within the case is a transverse partition or table 7, upon which is rotatably mounted the carrier 8, and at its forward end the table is provided with an opening 9, a chute 10 leading downwardly therefrom and discharging the article delivered from the carrier into the receptacle 11, provided on the face of the case. Carrier 8 comprises a plurality of closely-associated vertical tubes 12, arranged in a circle equidistant from the axis of the carrier, and adapted to successively register with the opening 9 in the table when the carrier is intermittently rotated in the manner hereinafter described. Each tube of the carrier is adapted to contain a number of articles, in the present instance in the form of an egg, the same being shown in position in dotted outline in Fig. 3. These eggs are deposited in the open upper ends of the tubes and are free to fall by gravity, the lowermost egg in each of the several tubes resting upon the table 7, all of the eggs contained in the carrier, with the exception of those contained in the tube in register with the opening 9, being supported by the table. Each of the tubes 12 is slotted transversely at 13, the slots being in a plane passing between the two lowermost eggs of each tube and being therefore in line with each other. These slots are extended for a portion of the distance only around the tubes, the inner walls 14 of the tubes adjacent to the slots being continuous.

15 is a plate secured against movement, preferably to the forward side of the case, and the same is disposed above the opening 9 in the table 7 and projects into the slots 13 as the tubes 12 are made to sucessively register with the opening 9. It will thus be seen that when the carrier is given a step-by-step movement the lowermost egg in each tube as it is brought into register with the opening 9 will fall therethrough and will be deposited in the receptacle 11, the remain-

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ing eggs in said tube being supported by the plate 15. When the carrier is advanced another step, the eggs remaining in the tube just removed from register with the opening 9 will fall and be supported by the table. By the intermittent rotation or successive operations of the carrier all of the eggs contained in the tubes 12 will therefore be delivered one at a time into the receptacle 11.

I will now describe the mechanism for imparting step-by-step movement to the carrier.

Upon the vertical axis 16 of the carrier is secured a bevel-gear 17, which meshes with a smaller bevel-gear 18, secured upon a horizontal shaft 19, the relation of the gears being such that a quarter-turn of the gear 18 will rotate the carrier an angular distance equal to that between two adjacent tubes 12.

20 is a ratchet secured upon one end of the shaft 19, the same being engaged by a stationary pawl 20', adapted to prevent backward rotation of the shaft 19.

21 is a ratchet also secured upon the shaft 19, and the same is adapted to be engaged by a pawl 22, carried upon a disk 23, loosely mounted upon the shaft 19, and said disk is provided upon its outer face with a spur-gear 24, meshing with a segmental gear 25 of an ordinary coin-controlled mechanism 26, provided with an operating-crank 27, projecting from the front of the case, the normal position of the segmental gear being shown in full lines, Fig. 2, a coiled spring 28 normally holding the same in lowered position, the downward movement of the same being limited by a stop 29. When the segmental gear 25 is operated to assume the position in dotted outline *a*, Fig. 2, the gear 24 and disk 23, being loosely mounted upon the shaft 19, will rotate upon said shaft without communicating motion thereto. However, on the return of the disk 23 and the gear 24 the pawl 22, carried by the disk, will engage a tooth upon the ratchet 21 and rotate the shaft 19 approximately a quarter-turn, the carrier being consequently rotated the required extent through the medium of the bevel-gears 17 and 18. Loosely mounted upon the shaft 19 and rigidly connected with the disk 23 by a connecting-rod 30, so as to operate simultaneously with said disk, is a cam-plate 31, having the configuration shown, the same being adapted to vibrate once through a quarter-turn when the coin-controlled mechanism is operated. Mounted upon the top of the case and extending downwardly through a perforation therein is a tubular guide 32, the same being arranged above and in the path of the cam-plate 31, being slotted lengthwise, as indicated at 33, to permit the cam-plate to pass axially therethrough.

Disposed within the tubular guide 32 and having a free sliding movement therein is another tube 34, held against rotation by a projection 35 thereon, operating along one of the slots 33. At the upper end of the tube 34 is mounted a cradle 36, constructed of longitudinal and transverse bands 37, adapted to firmly support the figure-body, the weight of the cradle and the tube 34, together with the weight of the figure, being sufficient to normally maintain them in lowered position. Having a sliding movement within the tube 34 is a vertical rod 38, the lower end of which projects below the end of said tube, the upper end projecting above the same and being bifurcated, the ends 39 being disposed beneath the wings of the figure and engaging said wings adjacent to their point of attachment or articulation with the body. Rod 33 is held normally in lowered position by the action of a light spring 40, carried by the cradle. It is now apparent that as the cam-plate 31 is vibrated the same will engage the lower end of the sliding rod 38 and also the lower end of the tube 34, the figure-body being by this operation elevated and lowered and a movement imparted to the wings of the figure, the elevation of the figure-body and the movement of the wings occurring at different times and producing an extremely lifelike effect. It will thus be seen that the operation of the coin-controlled mechanism will initially operate the figure in the manner herein described, the movement of the figure being then followed by the rotation of the carrier to cause a delivery of an egg in the receptacle 11.

Although I have herein specifically illustrated a preferred embodiment of my invention I do not desire to limit myself to the exact construction shown, since it is apparent that modification and changes in detail may be made therein and the entire invention or segregable parts appropriated and embodied in such a way as not to constitute a substantial departure.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a vending-machine, an article-carrier, means for actuating the same to deliver the articles one at a time, an inclosing case for said carrier, a winged display-figure mounted for vertical movement upon said case, and connections with said carrier-actuating means for imparting a vertical movement to said figure and a movement to the wings thereof, substantially as described.

2. In a vending-machine, an article-carrier, means for actuating the same to deliver the articles one at a time, an inclosing case for said carrier, a winged display-figure

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mounted for vertical movement upon said case, and connections with said carrier-actuating means for imparting a vertical movement to said figure and a movement to the wings thereof, said movements occurring at different times during the operation of the carrier-actuating means, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

PETER J. POOL.

Witnesses:
ARTHUR J. DARTON,
CARL H. KELLER.