Aug. 23, 1927. 1,640,285

J. MORTKA

SANITARY TOILET SEAT PAPER VENDING MACHINE

Filed July 26, 1926 2 Sheets-Sheet 1

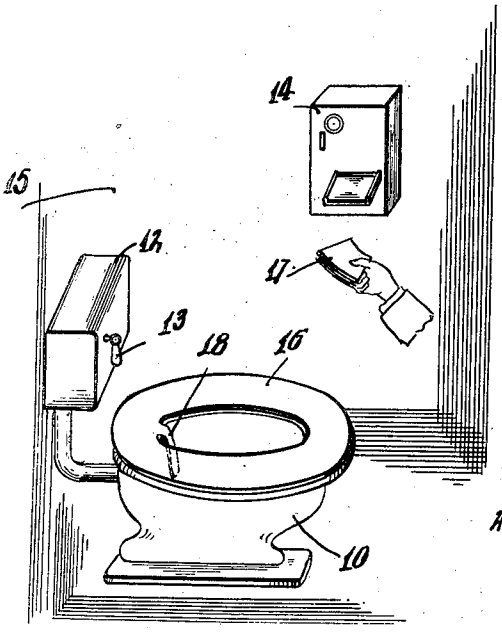


FIG. 1

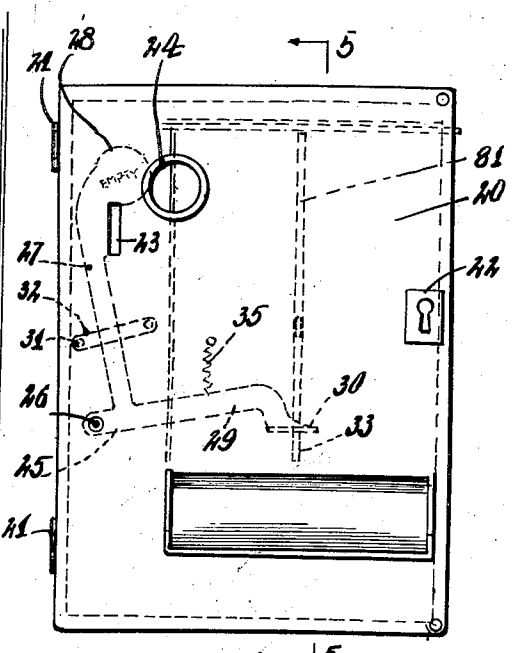


FIG. 2

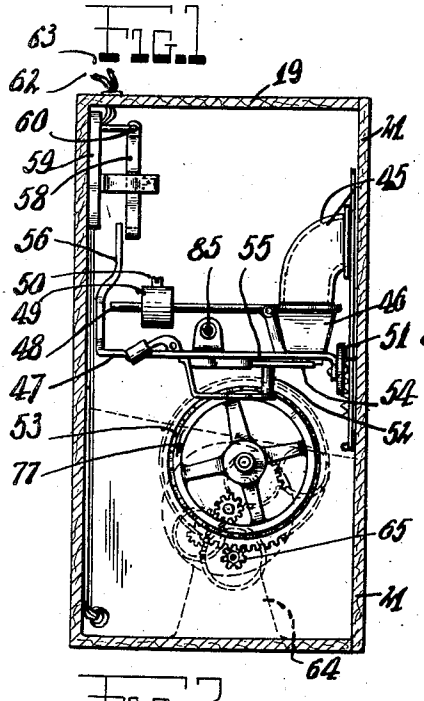


FIG. 3

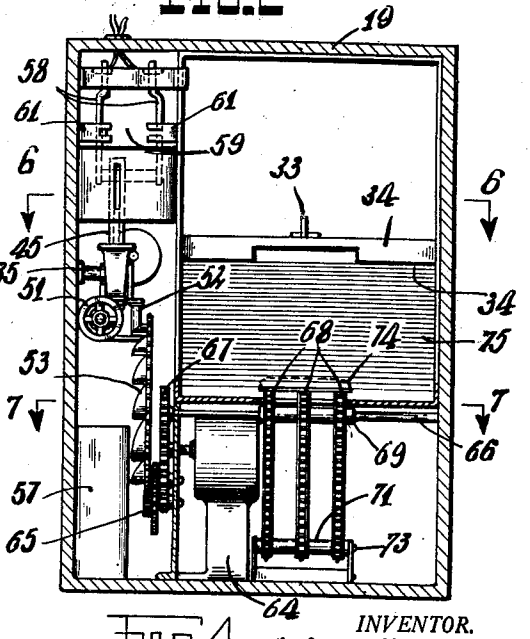


FIG. 4

INVENTOR.
John Mortka
BY Golton & Blackett
ATTORNEY

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J. MORTKA

SANITARY TOILET SEAT PAPER VENDING MACHINE

Filed July 26, 1926 2 Sheets-Sheet 2

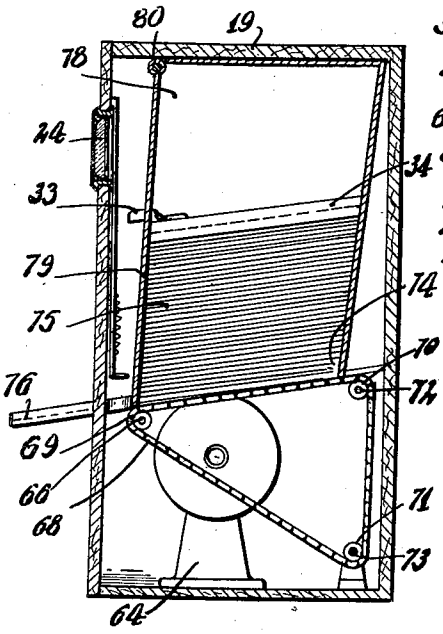


FIG. 5.

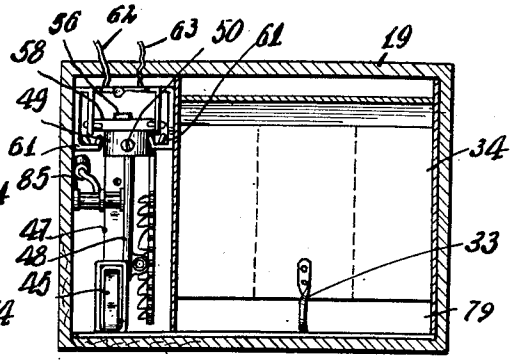


FIG. 6.

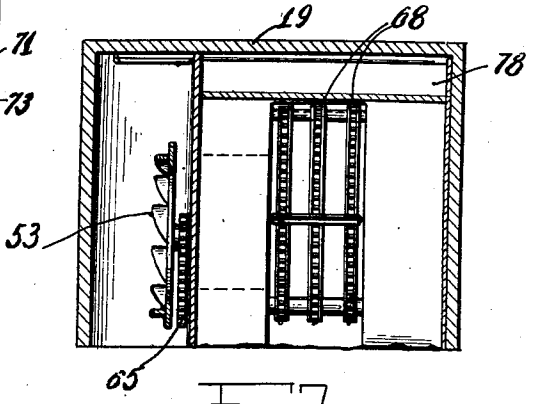


FIG. 7.

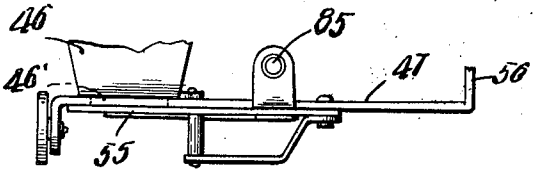


FIG. 8.

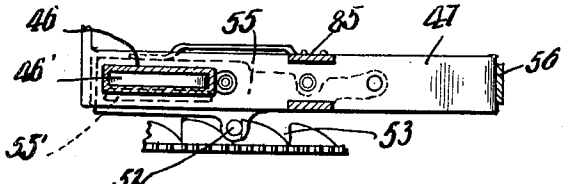


FIG. 9.

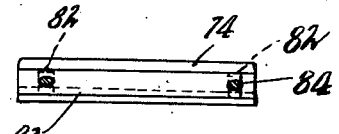


FIG. 10.

INVENTOR.
John Mortka
BY
ATTORNEY

Patented Aug. 23, 1927. 1,640,285

UNITED STATES PATENT OFFICE.

JOHN MORTKA, OF POUGHKEEPSIE, NEW YORK.

SANITARY-TOILET-SEAT-PAPER-VENDING MACHINE.

Application filed July 26, 1926. Serial No. 124,897.

This invention relates generally to coin slot machines used for vending merchandise, the invention having more particular reference to a novel type of coin slot machine.

The invention has for an object the provision of an improved coin slot machine for vending sanitary paper toilet seat covers.

A further object of the invention is to provide a sanitary paper toilet seat cover of novel design.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawing shows a perspective view of a toilet with my improved coin slot machine as it would appear attached to the wall.

Fig. 2 shows a front elevational view of my improved device.

Fig. 3 shows a side elevational view of my improved device with the side portion of the case removed so as to expose certain working parts.

Fig. 4 shows a similar view to that illustrated in Figure 2, but with the cover removed so as to expose certain working parts.

Fig. 5 is a vertical sectional view taken on the line 5—5 of Figure 2.

Fig. 6 shows a top plan view of my improved device showing the top portion of the case removed so as to expose certain working parts.

Fig. 7 shows a longitudinal sectional view of my improved device taken on the line 7—7 of Figure 4.

Fig. 8 shows an enlarged fragmentary side elevational view of the carriage as used in connection with my improved device.

Fig. 9 shows a top plan view of the carriage as shown in Figure 8.

Fig. 10 shows an enlarged front elevational view of a modification of the tongue as used in connection with my improved device.

Referring in particular to Figure 1 of the accompanying drawing, the toilet bowl, designated by the numeral 10, the toilet seat 11, the flush tank 12, and operating handle 13, are of common ordinary construction, such as generally used in toilets. My improved coin slot machine, designated by the reference numeral 14 is conveniently attached to the wall 15, and is used to vend the sanitary toilet seat covers 16, in folded form, to facilitate the said vending of same, as designated by the reference numeral 17. The sanitary toilet seat covers may be made of paper of any suitable quality, thickness and texture, and are of oval contour, comprising a rim, the center portion, of somewhat smaller oval shape, being removed, with the exception of a protruding strip 18, extending from the inner edge of the said rim. It is understood that the sanitary toilet seat cover 16, is to be used but once and then discarded.

As here embodied my improved coin slot machine 14 for vending the sanitary toilet seat covers, in folded form, as designated by the reference numeral 17, comprises a case 19 or box, of any convenient suitable size, having sides, top and bottom, and a removable front cover 20, or door hinged thereto as at 21, and provided with a lock 22. The front cover 20 has a slot 23 to receive the coin required to operate my improved device when one of the sanitary toilet seat covers placed within is desired, and is also provided with an aperture over which a piece of glass 24, or any transparent material may be placed. The lever 25 is pivotally attached to the inside of the said front cover 20, as at 26, and has an upper extended portion 27, with an enlarged extremity 28, the lever 25 has a lower extended portion 29 with a flanged or lipped extremity 30, and is held against the front cover 20 by means of a bracket 31 attached to the front cover 20, and having an elongated aperture 32 to permit the lever 25 to be operated by the protruding member 33 attached to the slidable block 34. It is understood that the flanged extremity 30 of the lower extended portion 29 of the lever 25 will be engaged by the protruding member 33 of the slidable block 34, when the slidable block assumes a bottom position, that is when the supply of sanitary toilet seat covers placed under the said slidable block has been exhausted, which will cause the enlarged extremity 28 to be seen through the piece of glass 24, and the upper extended portion 27 of the lever 25 will cover the slot 23 making it impossible to insert a coin, it being understood that the enlarged

extremity 28 will have marked, printed or otherwise lettered thereon the word Empty, or any similar designation, and that a spring 35 is attached, at one extremity to the lower extended portion 29 of the lever 25, and has its other extremity attached to the inside of the front cover 20, to swing member 27 so as to keep the slot open and the Empty sign away from aperture 24.

The coin channel 45 is attached to the case 19, and is intercommunicative with the slot 23 and the coin box 46 which has a slot 46′ located at its bottom, is rigidly attached to one extremity of the carriage 47, which is pivotally attached to the case 19, as at 85. The carriage 47 has a rod 48 to which is slidably attached a counterweight 49, which may be held in any desired position by means of a set screw 50, or any similar suitable screw. The carriage 47 has rotatively attached thereto a wheel 51 having its periphery in contact with the case 19. The carriage 47 has a bracket 55 hinged thereto to which is rotatively attached a roller 52, which is held in contact with one of the teeth of the ratchet wheel 53 by a flat spring 54 attached to the carriage 47 and having a free extremity pressing against the bracket 55. The carriage 47 has also an extension 56 attached thereto and extending upwards.

The coin, when placed in the slot 23 will pass through the channel 45 and drop into the coin box 46, and the weight of the coin, will cause the carriage 47 to swing or pivot forwards.

When the coin causes the carriage 47 to pivot forwards, the extension 56 will make contact with the circuit breaker 58 which is pivotally attached to the switch block 59, as at 60, and will push the circuit breaker 58 against the protruding arms 61 which will complete an electrical circuit from any convenient suitable source, not shown in the accompanying drawings, through the wires 62 and 63 connected thereto and to the electric motor 64 conveniently attached to the case 19, it being understood that the circuit breaker 58 normally breaks the heretofore mentioned circuit.

When the electric motor 64 is thus set in operation, or rotated, the train of gears 65, or any suitable similar reduction gearing such as ordinarily used, will rotate the shaft 66 by means of the gear 67 rigidly attached to the shaft 66 and meshing with the reduction gearing 65. The endless chains 68, or any flexible members are extended over the enlarged portion 69 of the shaft 66, and over the enlarged portions 70 and 71, of the idler shafts 72 and 73, respectively. It is understood that the said shafts 66, 72 and 73 are rotatably mounted in suitable bearings, journals, or the like attached to the case 19 and that the shafts 66 and 70 are so located as to permit the tongue 74 or flanged member, which is attached to the chains 68 and extends upwards therefrom, when the endless chains 68 are revolved by the rotating of the shaft 66, to engage the sanitary toilet seat cover, at the bottom of the stack or pile, as designated by the reference numeral 75, and force or push the said sanitary toilet seat cover along the protruding strip 76 or trough, from where it is taken to be used.

When the electric motor 64 is put in operation, the ratchet wheel 53, which is operatively connected to the reduction gearing 65, is also rotated, a certain predetermined part of a revolution in the direction designated by the arrow 77, shown in Figure 3 of the accompanying drawings, which will cause the roller 52 which is held in contact with one of the teeth of the ratchet wheel 53, to move or pivot the bracket 55 so that a slot 55′ located in the said bracket 55 will register with the slot 46′ located at the bottom of the coin box 46, and the said coin will drop through the said slots 46′ and 55′ into the coin receiver 57, which is placed at the bottom of the case 19 below the coin box 46, and is readily removable.

When the said coin drops through the slots 46′ and 55′ the counterweight 49 will cause the carriage 47 to return to its initial or normal position, which will break the circuit and stop the electric motor 64.

A supply of the sanitary toilet seat covers in suitable folded form are placed or stacked in the compartment 78 of the case 19, by pulling forwards the compartment front 79, which is hinged thereto, as at 80, at or near its upper extremity, the slidable block 34 being placed on top of the heretofore mentioned stack of sanitary toilet seat covers, there being an elongated aperture 81 through which the protruding member 33 attached to the slidable block 34 extends. It is understood that the said slidable block will keep the sanitary toilet seat covers stacked underneath same, partly compressed, so as to enable the tongue 74 to operate or push the sanitary toilet seat cover at the bottom of the stack, along the said protruding strip 76 so as to be obtainable for use by the intended user.

Reference is made in particular to Figure 10 of the accompanying drawings, in which I have shown a modification of the tongue as used in connection with my improved device.

For the purpose of adapting my improved device to handle, dispense, or vend, two sanitary toilet seat covers, at once, or a thick sanitary seat cover, I have provided the tongue 74 with elongated apertures 82, by means of which the said tongue 74 may be adjustably attached to the support 83, by means of bolts 84, or the like, located in the said elongated apertures 82 and in apertures suitably located in the support 83, as a means

of holding the tongue 74 in any desired extended position, for the purpose as hereinbefore set forth.

Having thus described my invention, what I claim as new, and desire to protect by Letters Patent of the United States is as follows:—

1. In a device of the class described, the combination with a ratchet wheel moved a certain predetermined part of a revolution by the action of certain dispensing means, of a casing, a carriage pivotally attached thereto, a coin box attached to the carriage, the said coin box being formed with a bottom slot, a bracket hinged to the carriage, a roller on the said bracket, said roller being engageable with the said ratchet wheel, means for normally keeping the roller engaged with the ratchet wheel, the said bracket being formed with a slot coincidable with the slot of the coin box, in a certain position only of the roller to the ratchet wheel, an extension member from the said carriage, a motor connected to operate the said dispensing means, and a switch for closing the circuit of the motor, and operated by the extension member when moved by a coin falling into or from the coin box and pivoting the carriage.

2. In a device of the class described, the combination with a ratchet wheel moved a certain predetermined part of a revolution by the action of certain dispensing means, of a casing, a carriage pivotally attached thereto, a coin box attached to the carriage, the said coin box being formed with a bottom slot, a bracket hinged to the carriage, a roller on the said bracket, said roller being engageable with the said ratchet wheel, a flat spring attached to the carriage having a free extremity pressing against the bracket, said bracket being formed with a slot coincidable with the slot of the coin box in a certain position only of the roller to the ratchet wheel, an extension member from the said carriage, a motor connected to operate the said dispensing means, and a switch for closing the circuit of the motor, and operated by the extension member when moved by a coin falling into or from the coin box and pivoting the carriage.

In testimony whereof I have affixed my signature.

JOHN MORTKA.