D. A. MORITZ AND W. J. PETERSON.

VENDING MACHINE.

APPLICATION FILED APR. 15, 1921.

1,396,772.

Patented Nov. 15, 1921.

2 SHEETS—SHEET 1.

FIG. 1

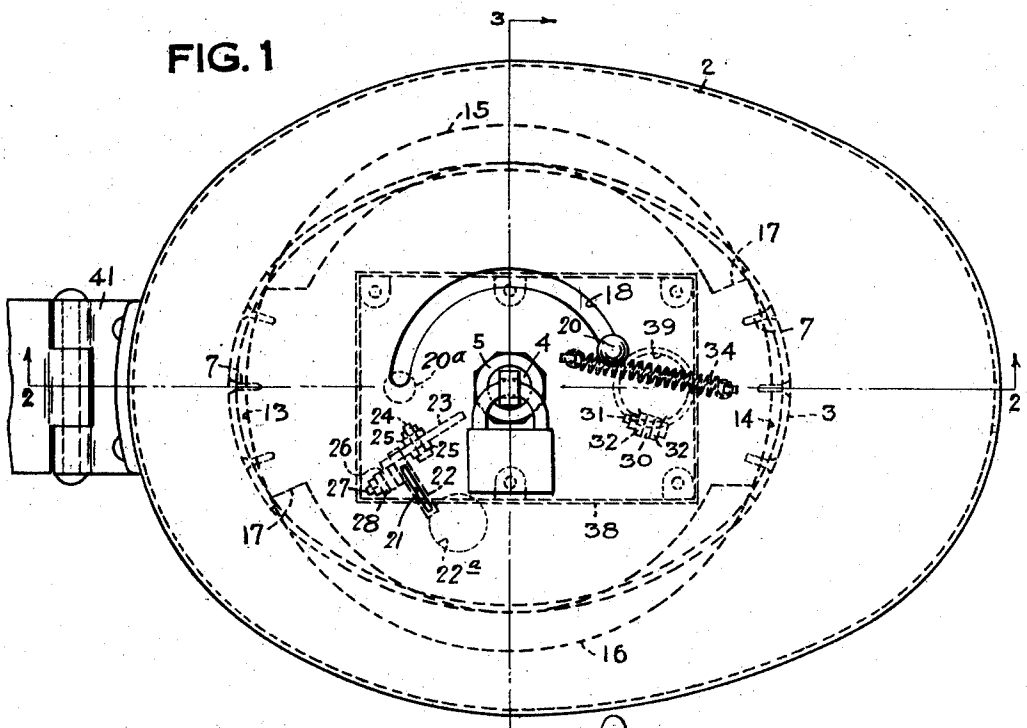


FIG. 2

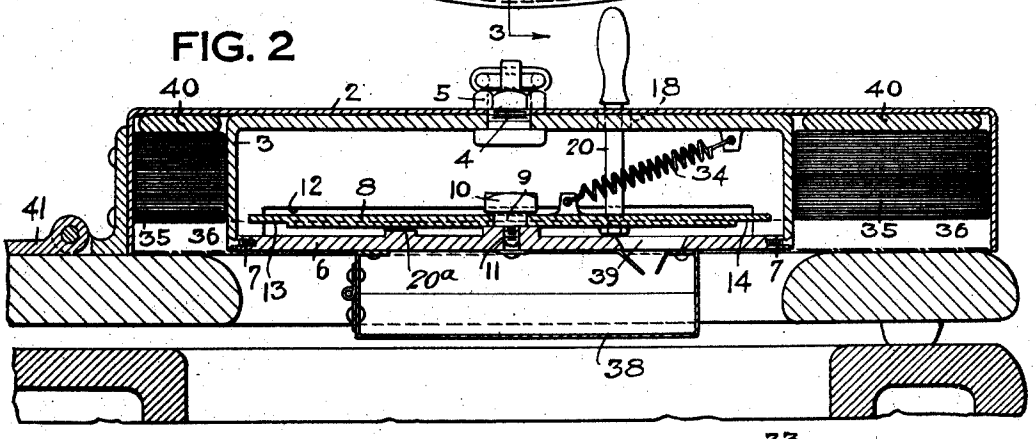


FIG. 6

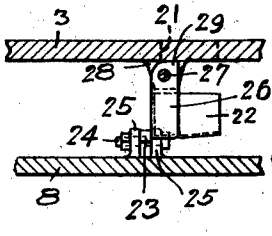


FIG. 7

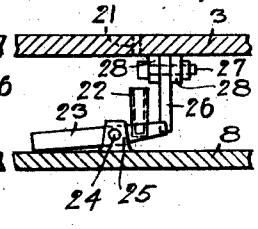
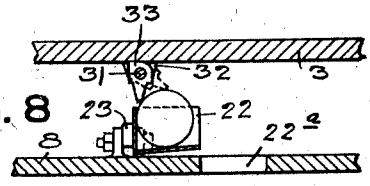


FIG. 8



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FIG. 3

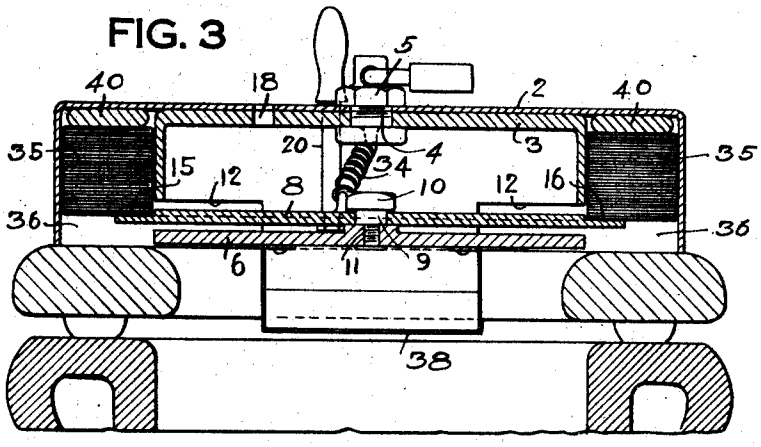


FIG. 4

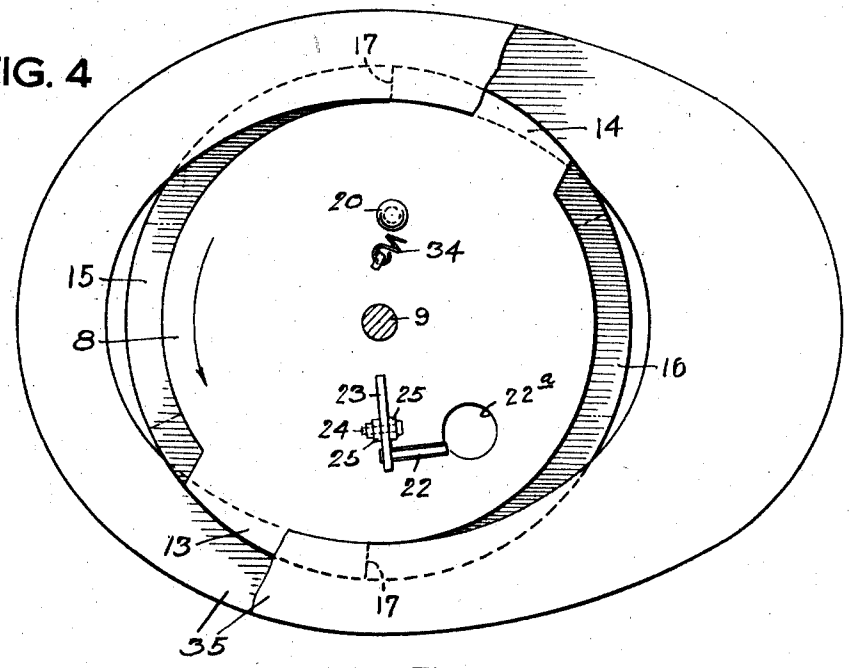
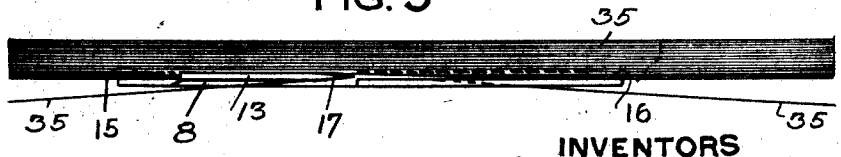


FIG. 5



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UNITED STATES PATENT OFFICE.

DANIEL A. MORITZ AND WILLIAM J. PETERSON, OF McKEESPORT, PENNSYLVANIA.

VENDING-MACHINE.

1,396,772. Specification of Letters Patent. Patented Nov. 15, 1921.

Application filed April 15, 1921. Serial No. 461,494.

To all whom it may concern:

Be it known that we, DANIEL A. MORITZ and WILLIAM J. PETERSON, citizens of the United States, and residents of McKeesport, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Vending-Machines; and we do hereby declare the following to be a full, clear, and exact description thereof.

Our invention relates to a vending machine, and more especially to a vending machine for vending sheets of paper to be applied to water-closet seats.

In the accompanying drawings, Figure 1 is a plan view; Fig. 2 is a section on the line 2—2, Fig. 1; Fig. 3 is a section on the line 3—3, Fig. 1; Fig. 4 is a plan view of the rotary plate, showing the separators and the sheets of paper; Fig. 5 is a detail showing the separators in process of separating the sheet from the pack; and Figs. 6, 7 and 8 are details.

The object of our invention is to provide a device in which the sheets are compactly arranged, and when the coin is inserted in the slot and the lever turned, a sheet is stripped from the pack and deposited on the seat, thereby doing away with the necessity of placing on the seat by hand.

In the drawings the numeral 2 designates a suitable box or casing shaped generally to conform to the shape of a closet-seat, and made of sheet metal of proper thickness. Within the casing 2 is the oval frame 3 which is secured to the casing 2 by the bolt 4 provided with the nut 5. The frame 3 is provided with the bottom plate 6 secured in place by the screws 7.

A rotary circular plate 8 is mounted on the bearing 9 of the screw 10 screwed into a seat 11 in the bottom-plate 6. The plate 8 extends through the slots 12 in the frame 3 into the casing 2 as clearly shown in Fig. 3. The under-face of the rim of the plate 8 is undercut at opposite points which form flange like segments 13 and 14, (see Fig. 2), and the upper face of the rim at opposite sides is likewise cut away to form flanges 15 and 16, (see Fig. 3). The undercut portions 13 and 14 have secured thereto the knives or separators 17. The front edges of said undercut portions 13 and 14 may be beveled or sharpened to act in the same manner as said separators. A curved slot 18 is formed in the top of the casing 2 and the frame 3, and through said slot passes the lever 20 which is secured to the rotary plate 8.

A coin-slot 21 is formed in the casing 2 and frame 3, and in line with said slot is the coin-holder 22 mounted on the weighted lever 23. This lever 23 is pivoted by the pin 24 to the lugs 25 on the plate 8. A swinging pawl 26 is suspended from the pin 27 in the lugs 28 on the frame 3, said pawl being in the path of movement of the lever 23. The pawl 26 is held from movement in one direction by the cam-portion 29 which engages the inner face of the frame 3 as clearly shown in Fig. 6. This prevents the turning of the plate 8 until a coin has been inserted in the holder 22. The weight of the coin in the holder lowers the forward end of the lever 23 and permits said lever to pass under said pawl. The plate 8 is provided with the opening 22^a through which the coin passes when ejected from the holder.

Another pawl 30 is mounted on the pin 31 in lugs 32 on the under face of the frame 3, said pawl 30 like the pawl 26 being held by the cam-portion 33 from moving in one direction. A spring 34 is connected to the stationary frame 3 and to the rotary member 8 which is adapted to return said member to normal position.

The sheets of paper 35 are compressed into a compact package and are inserted in the space 36 formed between the casing 2 and the frame 3. The sheets may be paraffined or waxed and conform to the shape of the closet-seat with the oblong openings formed therein. A weight 40 is provided to insure the package of sheets always resting in contact with the portions 15 and 16 of the plate 8. The sheets are held from falling out by the flange portions 15 and 16 of the rotary plate 8 which extends into the space 36 or paper magazine. As the plate 8 is round and the casing which forms the paper magazine is oval the only portions of the plate 8 which overlap the sheets are the flange portions 15 and 16. The undercut portions 13 and 14 do not overlap the sheets when said plate is in normal position as shown in Fig. 1.

A coin-box 38 is secured to the bottom-plate 6, and an opening 39 permits the coin to pass from the coin-holder into said coin-box.

The casing 2 has the hinge-portion 41 which adapts the device for connection to

the ordinary closet seat instead of the lid. When the coin is inserted in the slot 21 it drops into the holder 22 and the lever 23 is lowered. The operator then moves the lever 20 in the slot 18. This turns the plate 8 and the lever 23 passes by the pawl 30. By the time the lever 20 has reached the end of its stroke, it engages with an abutment 20^a, and on being released the spring 34 returns the plate 8 to normal position. As said lever and the plate 8 start to move back the coin strikes the pawl 30 and is ejected from the coin holder and drops through the openings 22^a and 39 into the coin-box.

When the plate 8 is first moved the knife edges 17 of the flanges 13 and 14 will enter between the sheets to separate one from the pack, and at the same time prevent the pack from falling out, for by the time the plate 8 makes half a revolution the flanged portions 15 and 16 completely release the sheet to permit it to drop onto the seat.

In this manner each time a coin is inserted in the slot and the plate 8 turned, a sheet is released and laid on the seat ready for use.

What we claim is:

1. In a vending machine, the combination of an oval shaped casing, a like shaped frame in said casing, the walls of said casing and said frame forming a receptacle for a pack of sheets of paper, a rotary circular plate mounted on said frame overlapping said sheets in said receptacle at opposite points, sheet separating members carried by said plate, and coin controlled mechanism for releasing said rotary plate, whereby when said plate is rotated a sheet is separated from the pack and discharged from said receptacle.

2. In a vending machine, the combination of an oval shaped casing, a like shaped frame in said casing, the walls of said casing and frame forming a receptacle for a pack of sheets of paper, a rotary circular plate with portions of its rim at opposite points recessed and overlapping the sheets in said receptacle, recessed portions formed in the lower face of said rim of said frame at opposite points, having sharpened portions, and coin controlled mechanism for releasing said rotary plate, whereby when said plate is rotated a sheet is separated from the pack and discharged from said receptacle.

3. In a vending machine, the combination of an oval shaped casing, a like shaped frame in said casing, the walls of said casing forming a receptacle for a pack of sheets of paper, a rotary circular plate with portions of its rim at opposite points recessed and overlapping the sheets in said receptacle, recessed portions formed in the lower face of said rim of said frame at opposite points having sharpened portions, a weight in said casing bearing on said pack, and coin-controlled mechanism for releasing said rotary plate, whereby when said plate is rotated a sheet is separated from the pack and discharged from said receptacle.

4. In a vending machine, the combination of an oval shaped casing, a like-shaped frame in said casing, the walls of said casing and frame forming a receptacle for a pack of sheets of paper, a rotary circular plate with portions of its rim at opposite points recessed and overlapping the sheets in said receptacle, recessed portions formed in the lower face of said rim of said frame at opposite points, and separators carried by said last named recessed portions, and coin-controlled mechanism for releasing said rotary plate, whereby when said plate is rotated the sheet is separated from the pack and discharged from said receptacle.

5. In a vending machine, the combination of an oval-shaped casing, a like-shaped frame in said casing, the walls of said casing and frame forming a receptacle for a pack of sheets of paper, a rotary circular plate with portions of its rim at opposite points recessed and overlapping the sheets in said receptacle, recessed portions formed in the lower face of said rim of said frame at opposite points having sharpened portions, a weighted lever on said plate, a coin-holder on said lever, a slot formed in said casing in register with said coin holder, and a stop carried by said frame in the path of said lever and movable in one direction, whereby when a coin is inserted in said holder and said plate rotated said lever will pass below said stop to be rotated the desired distance.

6. In a vending machine, the combination of an oval-shaped casing, a like-shaped frame in said casing and forming with said casing a receptacle for a pack of sheets of paper, a rotary circular plate mounted on said frame adapted to overlap the sheets at opposite points, separators carried by said plate, and coin-controlled mechanism for releasing said rotary plate, whereby when a coin is inserted in said holder and said plate rotated said lever will pass below said stop to be rotated the desired distance.

In testimony whereof, we, the said DANIEL A. MORITZ and WILLIAM J. PETERSON, have hereunto set our hands.

DANIEL A. MORITZ.
WILLIAM J. PETERSON.

Witnesses:
ROBT. D. TOTTEN,
JOHN F. WILL.