No. 894,246.

PATENTED JULY 28, 1908.

J. VIERLING.

VENDING MACHINE.

APPLICATION FILED OCT. 4, 1907.

3 SHEETS—SHEET 1.

Fig. 1.

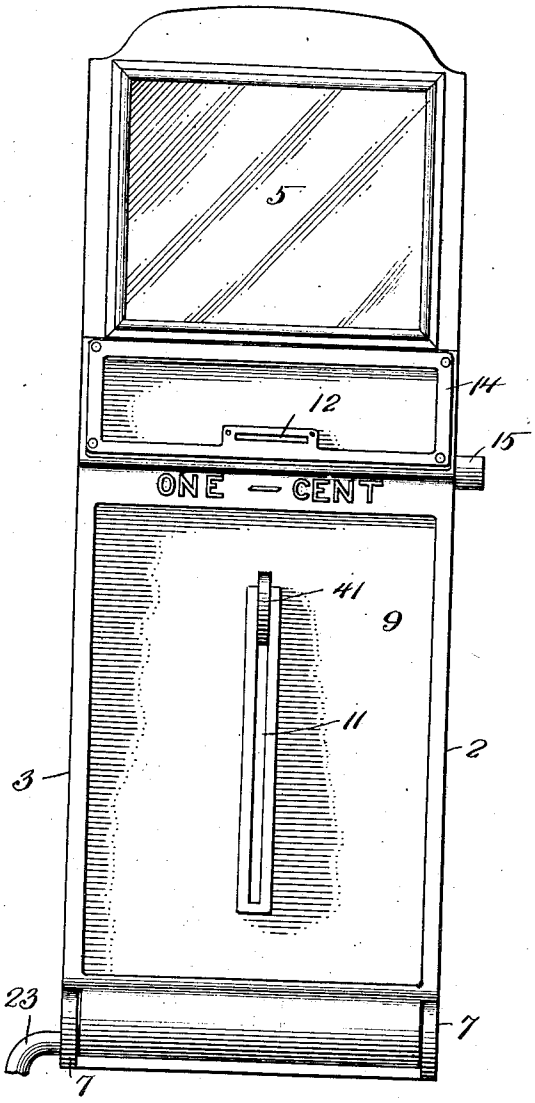
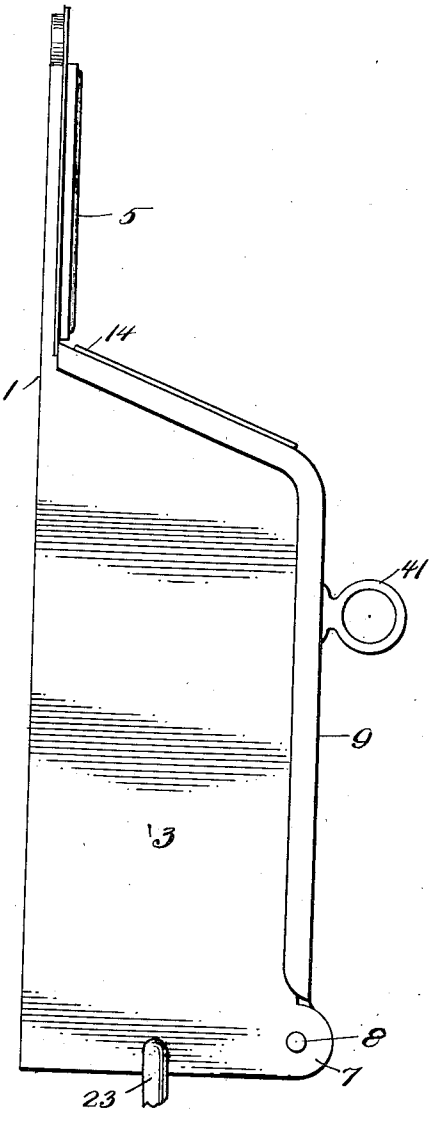


Fig. 2.



Witnesses

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3 SHEETS—SHEET 2.

Fig. 3.

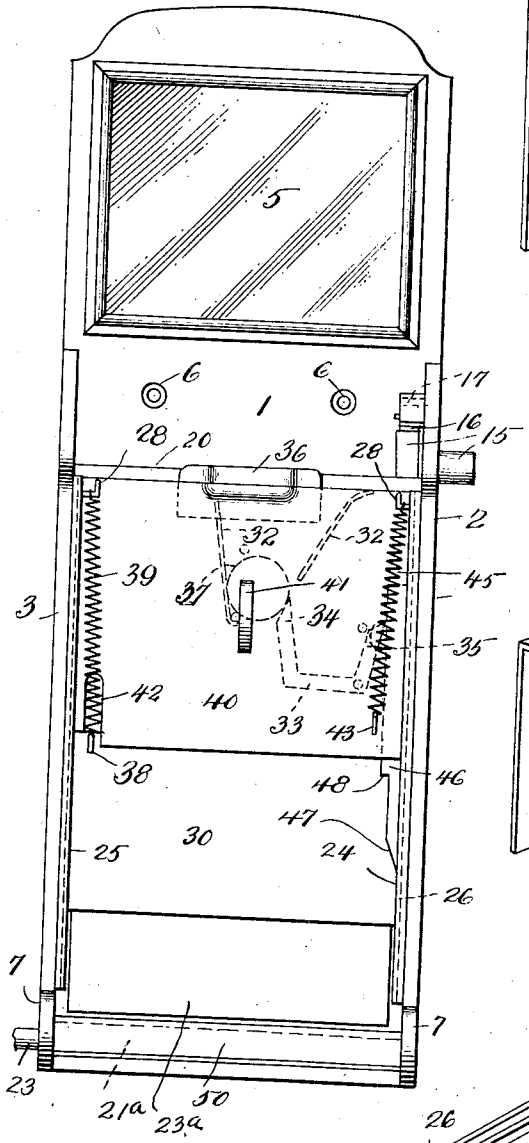


Fig. 4.

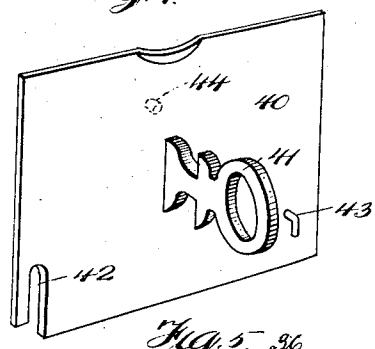


Fig. 5.

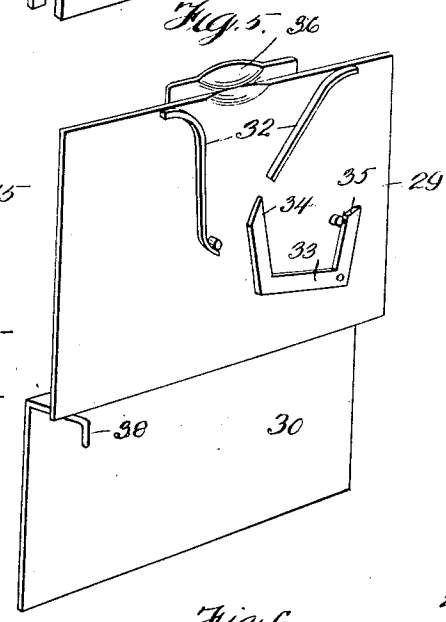
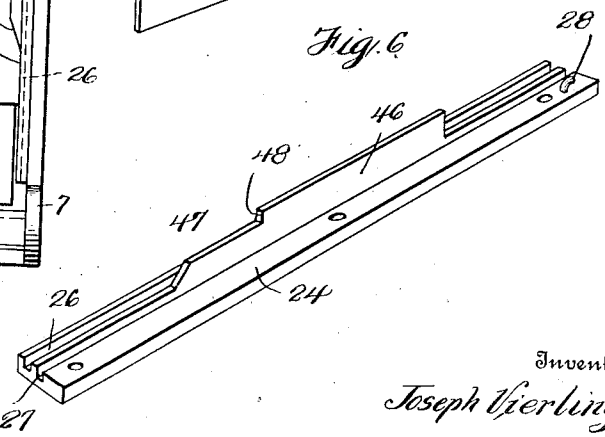


Fig. 6.



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3 SHEETS—SHEET 3.

Fig. 7.

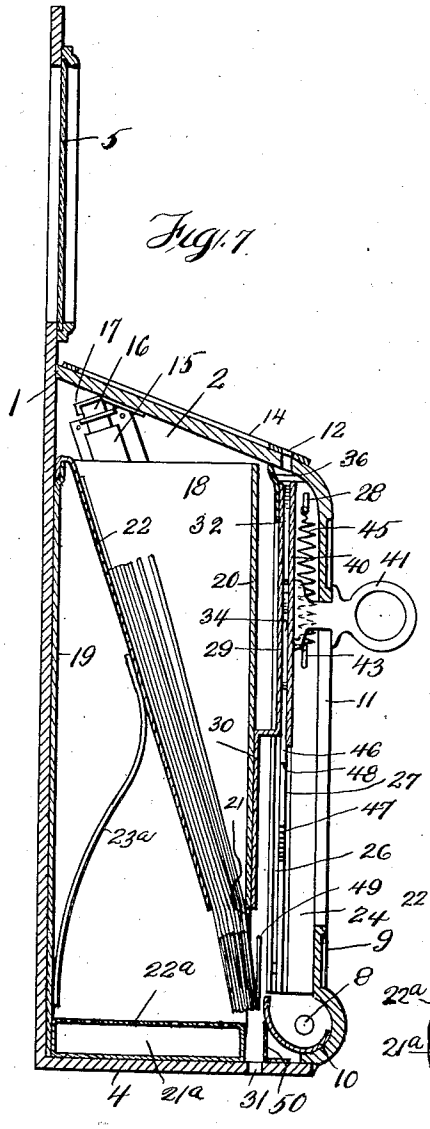


Fig. 8.

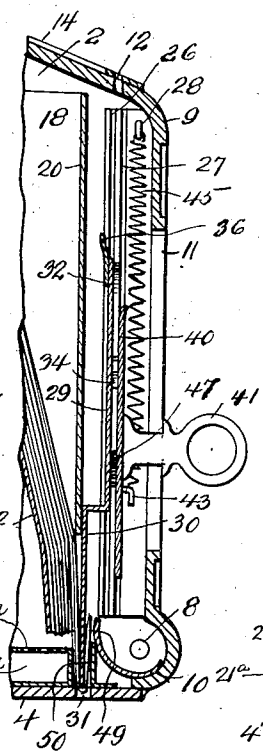
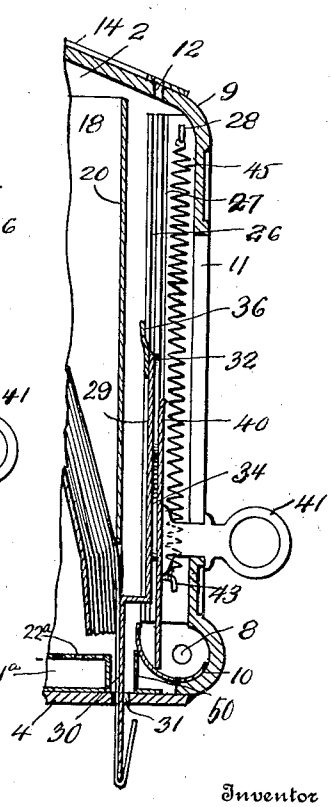


Fig. 9.



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UNITED STATES PATENT OFFICE.

JOSEPH VIERLING, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO P. & O. MANUFACTURING COMPANY, OF SEBRING, OHIO, A CORPORATION OF OHIO.

VENDING-MACHINE.

No. 894,246. Specification of Letters Patent. Patented July 28, 1908.

Application filed October 4, 1907. Serial No. 395,818.

To all whom it may concern:

Be it known that I, JOSEPH VIERLING, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Vending-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in vending machines, and the invention has for its primary object to provide a novel machine for vending or dispensing sanitary shields, or pieces of medicated or disinfected paper.

Another object of this invention is to provide a machine for dispensing pieces of paper and disinfecting a closet and the bowl or hopper thereof.

The invention aims to combine certain new and novel structural elements and produce a coin controlled mechanism for vending sanitary shields, the shields and the mechanism being arranged in a compact form, whereby they will occupy comparatively small space in the closet or compartment in which they are located.

Reference will now be had to the drawing forming a part of this specification, wherein Figure 1 is an elevation of the vending machine, Fig. 2 a side elevation of the same, Fig. 3 a front elevation with the lid or cover plate thereof removed, Fig. 4 is a perspective view of the actuating slide, Fig. 5 is a perspective view of the paper ejecting slide, Fig. 6 is a perspective view of one of the guides of the slides, Fig. 7 is a vertical sectional view of the vending machine, illustrating the normal position of the same, Fig. 8 is a vertical sectional view of a portion of the machine illustrating the mechanism in a partially shifted position, and Fig. 9 is a similar view illustrating the mechanism completely shifted and a piece of paper partially ejected.

To put my invention into practice, I construct the machine of light and durable metal, and cast the casing thereof, which consists of a back plate 1, side walls 2 and 3, and a bottom plate 4. The back plate 1 is of a greater height than the side walls 2 and 3, and is provided with a mirror or sign board 5 at its upper end, also openings 6, whereby the machine can be secured to a wall or suitable support by grooves or similar fastening means (not shown).

The side walls 2 and 3 are formed with pierced lugs 7 at their lower front edges to receive the pintles 8 of a lid or cover plate 9, said lid or cover plate forming the front and top walls of the machine. The lid 9, as it will be hereinafter termed, has its lower hinged or trunnioned end formed semi-cylindrical for holding a curved plate 10, which together with the lower edge of the lid 9 provides a coin receptacle, the object of which will presently appear. The lid 9 is provided with a central vertically disposed slot 11, a transversely disposed coin slot 12 and a sign frame 14, the slot 12 and the sign frame 14 being arranged upon the inclined upper portion of the lid 9. To retain the lid 9 in a closed position, I provide the side walls 2 with a conventional form of lock 15, said lock having a latch 16 for engaging a keeper 17 carried by the inner side of the lid 9. The lock 15 is manipulated with a key.

In the machine is mounted a paper holder comprising side walls 18, a rear wall 19 and a front wall 20, the lower edge of the front wall being cutaway, as at 21. Loosely connected to the upper edge of the rear wall 19 is an inclined plate 22, normally maintained at an inclination by a resilient strip of metal or spring 23^a, said spring being carried by the rear wall 19 of the paper holder.

Secured between the side walls 18 of the paper holder is a receptacle 21^a having a perforated top 22^a, and a discharge pipe 23, which extends through the side walls 18 of the paper holder, and through the side wall 3 of the vending machine. The receptacle 21^a is adapted to contain a liquid disinfectant, and the discharge pipe thereof is adapted to connect with the bowl or hopper of the closet for disinfecting the same.

The side walls 2 and 3 of the machine are provided upon their inner sides with confronting guides 24 and 25, these guides being suitably secured near the front edges of said walls. The guides 24 and 25 are formed with vertically disposed grooves 26 and 27 and each guide at its upper end is provided with a hook or lug 28. In the groove 26 of the guides 24 and 25 is slidably mounted a paper ejecting slide 29, said slide carrying a depending plate 30 which engages the front wall 20 of the paper holder of the machine. The plate 30 is in vertical alinement with the transverse slot 31 formed in the bottom plate 4 of the machine, and this plate is adapted to eject sanitary

shields or pieces of paper as will be presently described.

The slide 29 upon its front side carries two coin guides 32 and a pivoted arm 33 having beveled projections 34 and 35. The rear side of the slide 29 carries a coin shield or guide 36, which is normally maintained in close proximity to the coin slot 12, whereby a coin deposited in said slot will be deflected towards the guides 32 and will rest between one of said guides and the beveled projection 34 of the pivoted arm 33. The coin which I have designated 37 will remain in this position until the slide 29 is moved, as will be hereinafter described. To normally maintain the slide in the upper ends of the grooves 26, I provide the plate 30 with an outwardly extending hook 38, and connecting with this hook and the hook 28 of the guide 25 is a coil spring 39. Movably mounted in the groove 25 is an actuating slide 40, provided with an outwardly extending handle 41 adapted to protrude through the slot 11 of the lid 9. The slide 40 has its lower left hand corner cutaway and slotted as at 42, to clear the lower end of the spring 39 and the hook 38 of the plate 30. Besides the handle 41 the slide 40 carries upon its front side a hook 43 and upon its rear side a lug or pin 44. The hook 43 is connected by a coil spring 45 with the hook 28 of the guide 24. The guide 24 besides being grooved is provided with a vertically disposed web 46 having shoulders 47 and 48, the object of which will presently appear.

In order that the operation of the vending machine can be fully understood, I have illustrated sanitary shields or pieces of paper located in the paper holder of the machine. These sanitary shields are made of tissue paper and folded to occupy a comparatively small space within the machine, each shield being folded to present a flap 49 by virtue of which each shield is partially ejected from the machine. The shields are arranged in the paper holder upon the inclined plate 22 with the flaps of said shields extending towards the front of the machine, whereby when a shield is removed, the flap of the following shield will be presented in such a position as to permit of said shield being partially ejected from the machine. As heretofore stated, when a coin is deposited in the slot 12 of the machine, the coin is supported between the slides 29 and 40 upon guide 32, and the beveled projection 34 of the pivoted arm 33. As the actuating slide 40 is moved downwardly, through the medium of the handle 41, the lug or pin 44 carried by said slide engages the upper edge of the coin 37, carried by the paper ejecting slide 29, and both slides move in unison, placing the springs 39 and 45 under tension. As the slide 29 travels downwardly, the projection 35 of the pivoted arm 34 engages the web 46, and immediately upon passing the shoulders 48, it is impossible to move the slides upwardly, the shoulder 48 simply being a safety stop for preventing a person from operating the machine numerous times by one coin. A further movement of the slides 29 and 40 causes the projection 35 to ride over the beveled shoulder 47 of the web 46, and release the coin held by the guide 32 and the beveled projection 34 of the arm 33. The coin immediately drops into the receptacle formed by the curved plate 10 and the lid 9. When the coin is released from the slide 29, said slide can be further moved to engage the flap 49 of the shield and move said shield through the slot 31 of the machine casing, thus ejecting the shield sufficiently to permit of a person gripping the same and removing it from the machine. Upon the release of the handle 41, the slides 40 and 29 are returned to their normal position through the medium of the spring 39 and 45. To prevent the flaps 49 from extending outwardly too far from the path of the plate 30, I provide the bottom plate 4 of the casing with a transverse angle plate 50, which at all times retains the flap of the shield in position to be engaged by the lower edge of said plate.

The sanitary shields or papers within the machine besides being medicated, are disinfected by the contents of the receptacle 21, and the odors escaping from this receptacle are adapted to disinfect the compartment or closet in which the machine is located.

From the foregoing description, it will be observed that my improved vending and dispensing machine is composed of comparatively few parts, easy access being had to each and every part, when the lid 9 of the machine is opened. A particular feature of my invention resides in the easy access which is had to the coin receptacle, when the lid 9 is thrown open. The coins held in the receptacle of the hinged lid are easily reached and can be expeditiously removed, without disturbing or disarranging any of the mechanism of the machine.

The paper holder of the machine is made of a sufficient size to hold a suitable quantity of sanitary shields, and these shields are fed forward as they are withdrawn through the medium of the spring 23 arranged within the paper holder.

I do not care to confine myself to the form of sanitary shield or paper dispensed in the machine, and such other changes in the size, proportion and minor details of construction as are permissible by the appended claims can be resorted to without departing from the spirit and scope of the invention.

Having now described my invention what I claim as new, is:—

1. A vending machine consisting of walls, a hinged lid carried by two of said walls, a

paper holder arranged within said walls, a spring pressed inclined plate for retaining the paper in said holder, a perforated disinfected receptacle located beneath said holder, oppositely disposed guides carried by the side walls of said machine, a paper delivery slide arranged between said guides, a depending plate carried by said slide for ejecting paper from said machine, an actuating slide arranged between said guides, a handle carried by said lid, means carried by said actuating slide for moving said paper ejecting slide, and means for normally holding said slides in an elevated position.

2. A vending machine comprising a casing, a lid hinged thereto, said casing having a delivery slot formed therein, a paper holder located in said casing, a spring pressed inclined paper holding plate, a disinfectant receptacle located beneath said paper holder, guides arranged in said casing at the front edge thereof, a spring held paper ejecting slide mounted in said guides and having a depending paper engaging plate, a spring held actuating slide mounted in said guides, a handle carried thereby and protruding through a slot in said lid, a pivoted arm carried by said slide, a web carried by one of said guides for controlling the movement of said arm, and means carried by said actuating slide for moving said paper ejecting slide.

3. A vending machine comprising a casing provided with a delivery slot, a hinged lid carried by said casing, a paper holder arranged within said casing and having an inclined spring-pressed paper holding plate, guides carried within said casing at the front thereof, a spring-held paper-ejecting slide mounted in said guides and having a spring-held paper-engaging plate, an actuating slide mounted in said guides and having a handle protruding through a slot in said lid, means for normally holding said slides in an elevated position, and means carried by said actuating slide for moving the paper-ejecting slide.

In testimony whereof I affix my signature in the presence of two witnesses.

JOSEPH VIERLING.

Witnesses:
PAUL WENZIG,
MAX H. SROLOVITZ.