

No. 748,795.

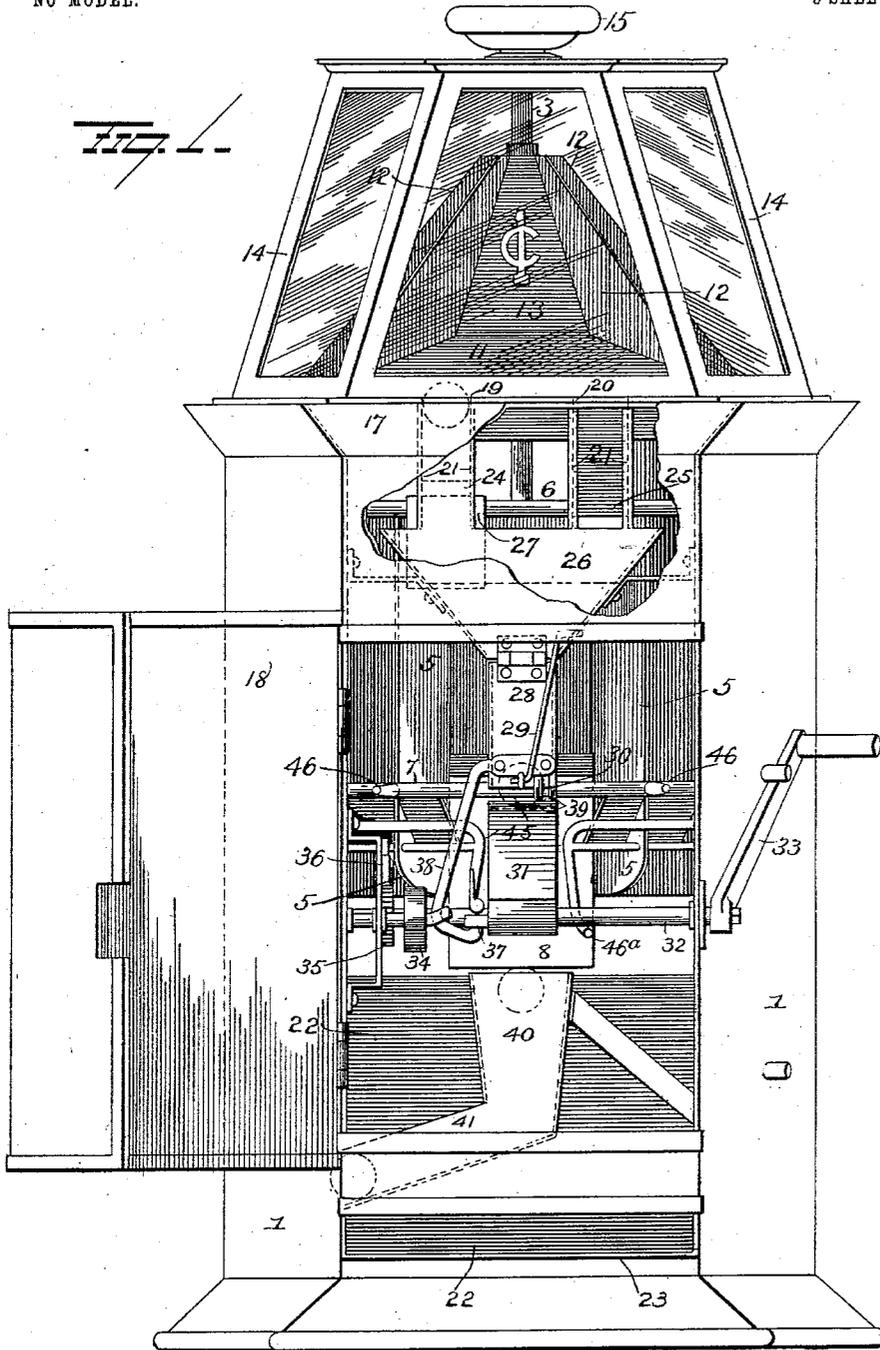
PATENTED JAN. 5, 1904.

E. S. SCHEBLE.
VENDING MACHINE.

APPLICATION FILED NOV. 21, 1902.

NO MODEL.

3 SHEETS—SHEET 1.



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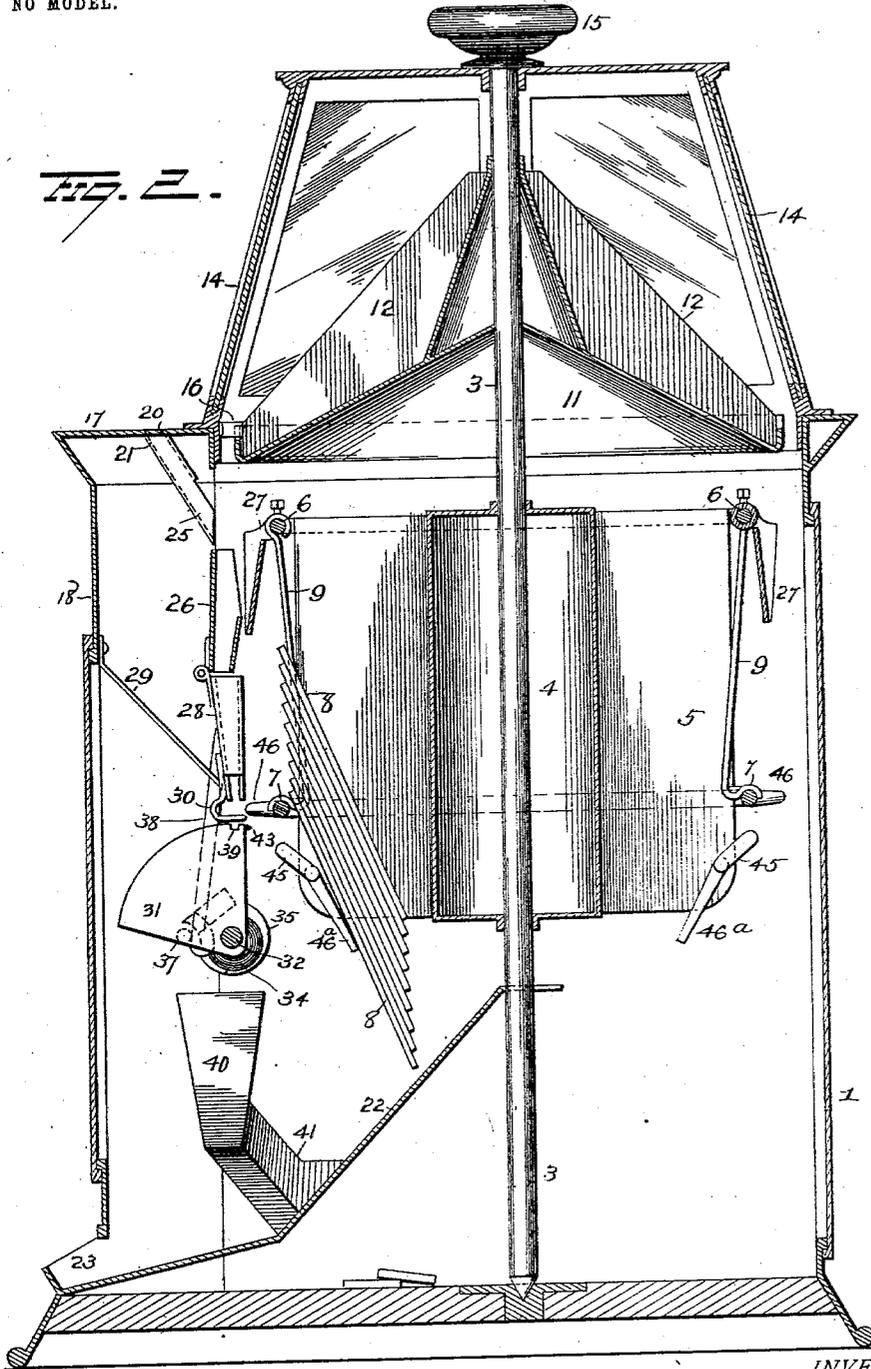
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3 SHEETS—SHEET 2.

FIG. 2.



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3 SHEETS—SHEET 3.

Fig. 3.

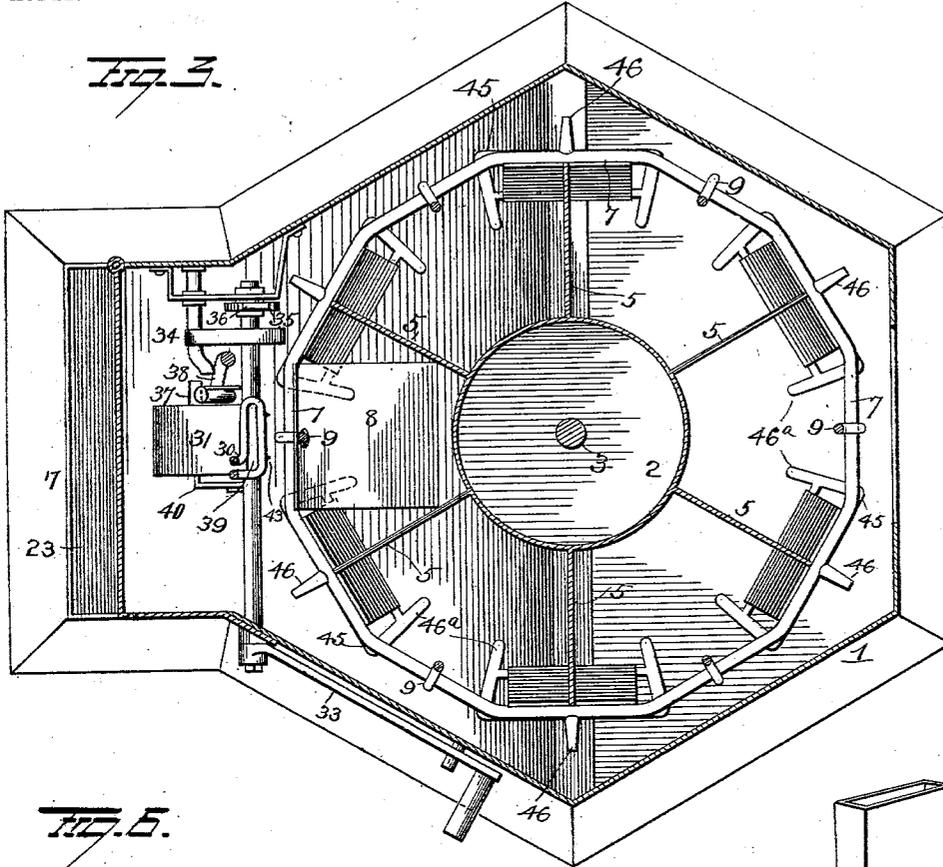


Fig. 6.

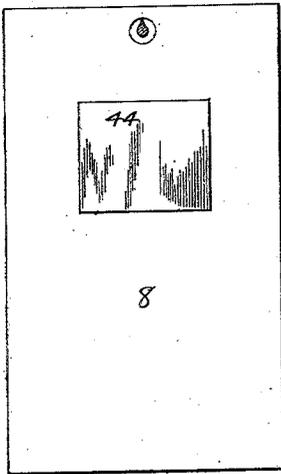


Fig. 5.

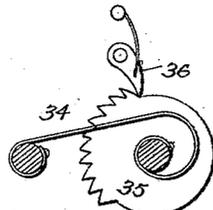
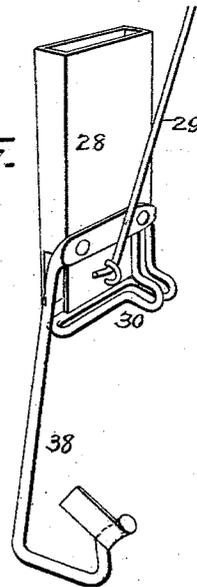


Fig. 4.

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UNITED STATES PATENT OFFICE.

EUGENE STITES SCHEBLE, OF CLEBURNE, TEXAS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO S. E. WILMORE, OF NEW YORK, N. Y.

VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 748,795, dated January 5, 1904.

Original application filed July 1, 1902, Serial No. 114,000. Divided and this application filed November 21, 1902. Serial No. 132,226. (No model.)

To all whom it may concern:

Be it known that I, EUGENE STITES SCHEBLE, of Cleburne, in the county of Johnson and State of Texas, have invented certain new and useful Improvements in Vending-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in vending-machines, this application being a division of application for patent filed by me July 1, 1902, and designated by Serial No. 114,000.

An object of this invention is to provide a movable carrier in which goods of different price can be displayed and which can be operated to move any of the goods into position to be removed.

A further object is to provide improved mechanism whereby the prices for the goods in the several receptacles may vary and provide improved mechanism which will compel the goods desired to be ejected.

A further object is to provide improvements of this character in which the goods are displayed in separate receptacles above the vending-receptacles, so that the purchaser need make no mistake in his purchase.

A further object is to provide an improved vending-machine in which the goods vended are inclosed in envelops or like packages having frangible supports or connections, so that they can be torn free and dropped into easy reach of the purchaser.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in elevation, illustrating my improvements. Fig. 2 is a view in longitudinal section. Fig. 3 is a horizontal sectional view, and Figs. 4, 5, and 6 are views of various details of construction.

I represents a metal casing which may be hexagonal, as shown, cylindrical, or any other shape desired.

In the casing 1 my improved frame or movable receptacle 2 is located and comprises a vertical shaft 3, supported to revolve in a bearing in the bottom of casing 1 and having a cylinder 4 secured thereon some distance above its lower end. This cylinder is provided with a series of radial wings 5, around the upper and lower ends of which rings 6 and 7, respectively, are secured. The spaces between the wings 5 constitute separate compartments for receptacles containing the goods to be vended, and the said receptacles for the goods are preferably envelops or bags 8, perforated at one end to receive a rod 9, hung from upper ring 6 and bent at their lower ends to rest on the lower ring 7 and prevent the escape of the envelops until ejected by the ejector 31, as will be more fully hereinafter explained. On shaft 3 above the receptacles a conical disk 11 is secured and is provided with radial inclined partitions 12, forming receptacles 13 directly above the vending-receptacles for the display of goods similar to the goods in the envelops below and also carry some designation of the price to be paid for such articles. These receptacles 13 can be viewed through a transparent cover 14, secured on casing 1 and through which shaft 3 projects and is provided with a knob or handhold 15 to be grasped by the purchaser and turn the frame to bring the proper receptacle into operative position, suitable spring dogs or fingers 16 being provided on the receptacles 13 to ride into a notch in casing 1 and temporarily hold the frame in the position desired, thus aiding the purchaser in finding and holding the frame in an operative position.

The front of casing 1 is made with an offset 17, in which is contained the coin-controlled mechanism, and a door 18 is provided to permit of ready access to the same when opened. On the top of offset 17 a plate is secured, and in which slots 19 and 20 are located and are of just the proper size to receive a one-cent and a five-cent piece, respectively. Beneath these slots guideways 21 are located and are of the proper distance apart to accommodate just the proper coin. Hence should a smaller coin be inserted it will not travel in the guides,

but will drop through onto an inclined platform 22, down which it will slide to an open pocket 23 in the offset, and in which the goods are delivered, hence returning the coin to the operator. Communicating with these guides 21 and into which they discharge are inwardly-inclined open chutes 24 and 25 of the one-cent and five-cent guides, respectively, and beneath these chutes a hopper 26 is located to receive the coins when deflected thereinto by shields 27 on the upper rings 6 of the movable frame. These shields are located in proper position on the several receptacles according to the cost of the goods therein contained. For instance, in a receptacle containing one-cent articles the shield will be in such location that when the receptacle is moved to operative position the shield will be in front of chute 24 to deflect the one-cent pieces into the hopper; while the chute 25 for five-cent pieces will be open and such coins will be returned to the operator, as they will pass entirely over the hopper and fall down inclined platform 22 and into the open pocket 23. When the frame is moved so as to vend a five-cent article, the five-cent chute 25 will have a shield 27 in front of it to deflect the five-cent pieces into the hopper, while the one-cent chute 24 will be open and drop the one-cent pieces into pocket 23 if any should be inserted while the frame is in this position.

Below hopper 26 and hinged thereto is a spout 28, held normally in a vertical position by a spring 29, connected at one end to the machine-casing and at its other end to a looped coin-holder 30, secured to spout 28 and having its looped portion located directly below the discharge end of the spout to hold the coins in a vertical position and on the curved face of an ejecting-segment 31. This segment 31 is secured upon a shaft 32, projecting out through the casing and having a lever or arm 33 thereon to operate the segment, as will hereinafter appear, suitable stops being provided to limit the movement of the arm or lever. A clock-spring 34 is provided on shaft 32 to normally hold the shaft in position to "set" the segment, and a mutilated gear 35 is secured on the shaft near its inner end. A spring-pressed double-acting pawl 36 engages mutilated gear 35 when moved in either direction—that is to say, when the shaft 32 is turned to move ejector-segment 31 to throw out an envelop the pawl will engage mutilated gear 35 to prevent the premature return of the ejector; but when the latter has been moved far enough to insure the ejection of the parcel the pawl 36 will pass the end of the series of teeth of the mutilated gear 35, and said teeth will ride under the pawl 36 and permit the complete return of the ejector-segment to its set position before it can again be operated, thus preventing more than a single package being ejected when but one coin has been dropped in the machine. To hold the ejector-segment

31 against movement until the coin has been dropped into place, I provide a lug 37 on one side of the segment, which engages the hooked free end of an arm 38, carried by spout 28, so that should any one attempt to move the ejector-segment lug 37 will engage arm 38 and hold the ejector against movement, the hooked end of said arm 38 being moved out of the path of the lug 37 only when the spout 38 and ejector 31 are coupled together by a coin, as previously explained.

On the curved face of ejector-segment 31 at its inner end a groove or shoulder 39 is provided whose function is when a coin is held thereagainst by spout 28 and holder 30 to serve as a coupling and force the spout inward before it rides from beneath the coin, hence moving arm 38 far enough to permit lug 37 to pass over it and not interfere with the operation of the ejector. As the latter is turned it will support the coin until the end of the segment is reached, when the coin will drop into a hopper 40 and be conveyed by a trough 41 to the interior of the casing, from which the coins can be removed through a doorway at the back or sides, as preferred.

To effectually eject the envelops, the inner end of segment 31 is provided with short teeth 43 to engage the envelops, and to strengthen the latter and facilitate their removal I preferably provide them with a cloth or felt paster 44, which is engaged by the teeth 43 and the envelops torn from rod 9. The return movement of the ejector-segment rubbing against the remaining envelops serves to effectually disengage the teeth from the envelop if they should become caught and compel the envelop to drop into the open pocket 23 to be removed by the purchaser.

The envelops in one of the receptacles may each contain five one-cent pieces, so that a purchaser can secure change for a five-cent piece to enable him to purchase one-cent articles.

On each of the wings 5 guide-brackets 45 are secured to prevent the operation of the ejector-segment until the compartment is moved to the proper position, and on these brackets inwardly-projecting fingers 46^a are located to hold the envelops back, preventing them from sagging forward to interfere with the perfect operation of the machine.

To prevent a purchaser from dropping a one-cent piece in the machine when the receptacle is in position for a one-cent article and then turn the receptacle to a five-cent article before operating the ejector, I provide the lower ring 7 between each receptacle with a short lug 46, which moves between spout 28 and holder 30, thus striking the coin and knocking it out of position into the pocket below.

It will thus be seen that with my improvements the purchaser can select any goods he desires to purchase, the trays in the top clearly advertising the goods in the recepta-

cles, and when he has decided just what he desires to purchase he turns the frame to bring the proper receptacle into position to be engaged by the coin-controlled mechanism. Then by dropping the proper coin in its proper slot and moving lever 33 an envelop containing the goods desired will be delivered to him in the open pocket below. If the wrong coin is inserted in a slot or if a correct coin is inserted in the wrong slot, they will drop through into the open pocket without operating the machine, or if the receptacle is turned after a proper coin has been dropped the coin will be ejected by means of the fingers 46, as above explained.

A great many changes might be made in the general form and arrangement of the several parts described without departing from my invention, and hence I would have it understood that I do not wish to limit myself to the precise construction set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. In a vending-machine, the combination with a casing, of a movable frame therein having a series of compartments, means in each compartment for suspending receptacles containing goods, an ejector for removing said suspended receptacles from their supports, and means for controlling said ejector.

2. In a vending-machine, the combination with a casing having a transparent top, of a frame mounted to rotate in said casing and having a series of radially-disposed vertical compartments, a series of display-trays carried by the rotatable frame and located within the transparent top, suspending means in each compartment for receptacles containing goods and a single ejector for the receptacles in all of said compartments.

3. In a vending-machine, the combination with a casing having a transparent top, of a frame mounted to rotate in said casing and having a series of radially-disposed vertical

compartments, a handhold above the transparent top to turn the frame, display-trays within the transparent top, means in each compartment to suspend a series of receptacles containing goods, and a single ejector to eject the receptacles containing goods from any of said compartments.

4. In a vending-machine, the combination with a receptacle, of an upright rod therein having a bent lower end, envelops containing goods having frangible connection with said rod and supported by the bent lower end thereof and an ejector for removing an envelop from said rod and immediately ejecting it.

5. In a vending-machine, the combination with a receptacle, of a depending rod, paper envelops perforated to receive the rod and be supported thereon, a paster on one side of all of said envelops, and a toothed ejector to engage the paster and tear the bottom envelop from the rod.

6. In a vending-machine, the combination with a casing, of a vertically-disposed rotary frame therein comprising a series of radial compartments, means in each compartment for suspending receptacles containing goods to be vended, means for turning said frame, a single ejector to eject the receptacles containing goods downwardly from any of said compartments, and means for centering any of said compartments in position to be operated upon by the ejector.

7. In a vending-machine, the combination with a rotatable frame having several compartments, means in each compartment for suspending receptacles containing goods to be vended, a single ejector for said receptacles and means for holding the lower portions of the receptacles out of the way of the ejector-operating devices.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EUGENE STITES SCHEBLE.

Witnesses:

SELAH V. D. TOMKINS,
MALCOLM B. EGBERT.