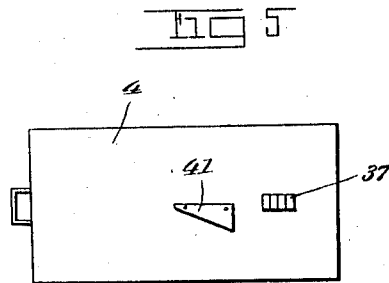
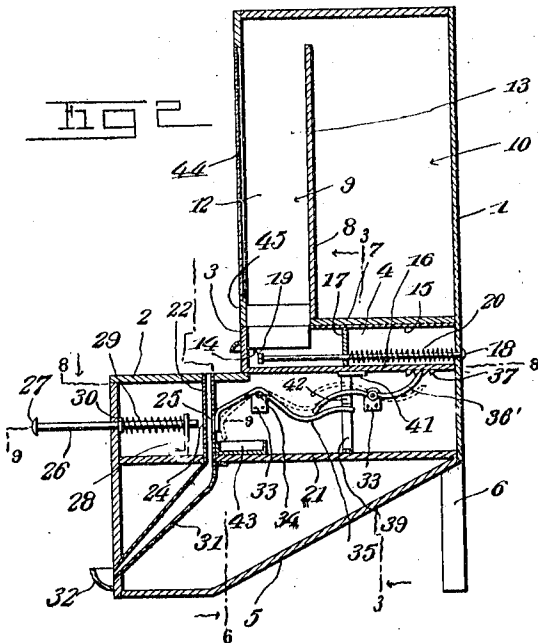
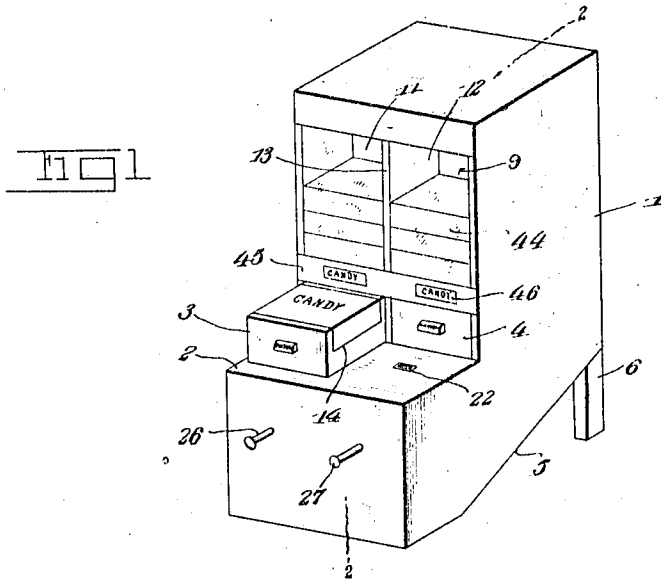


J. V. VANDAGRIFF.
VENDING MACHINE.
APPLICATION FILED MAY 6, 1911.

1,051,786.

Patented Jan. 28, 1913.

3 SHEETS-SHEET 1.



Witnesses
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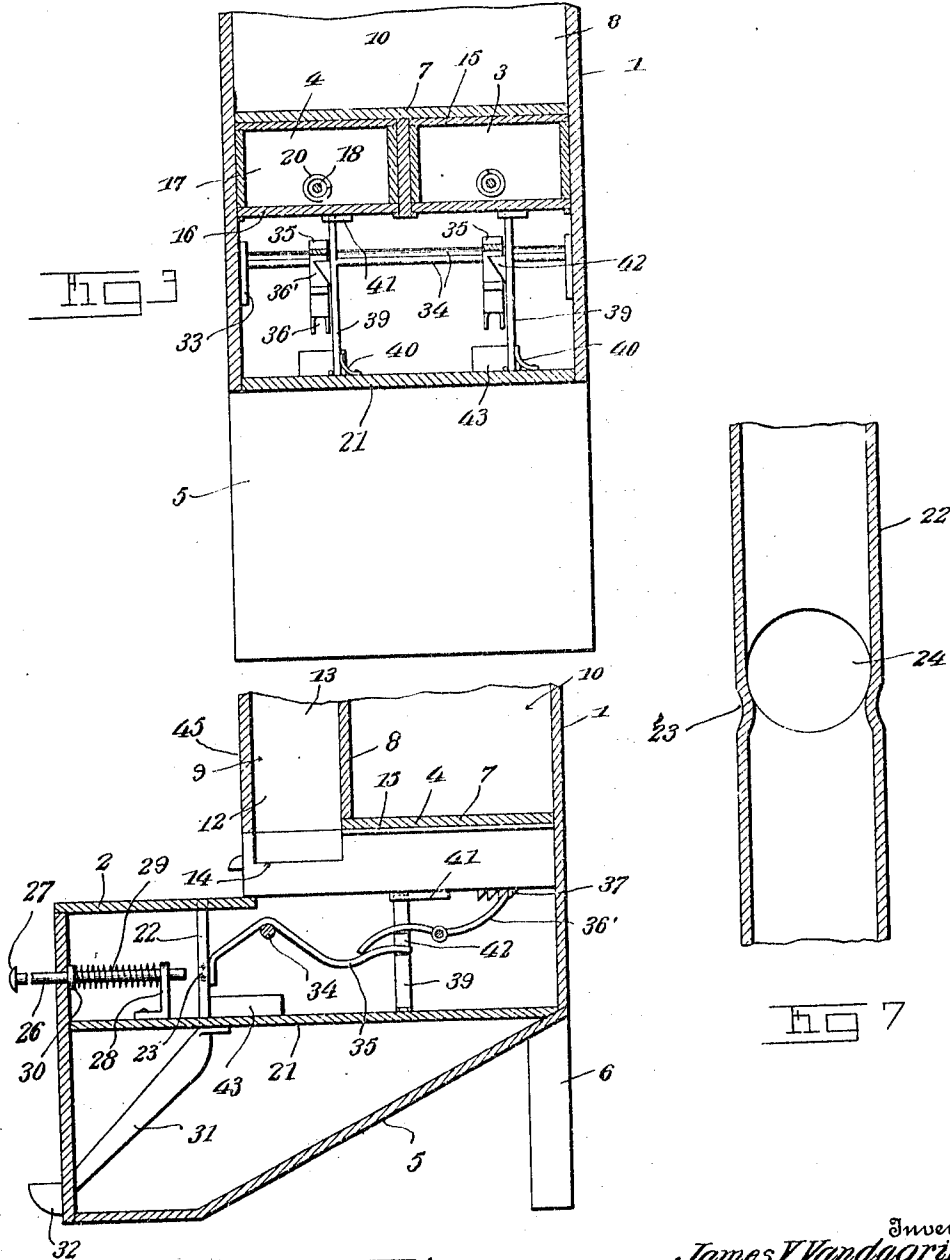
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3 SHEETS—SHEET 2.

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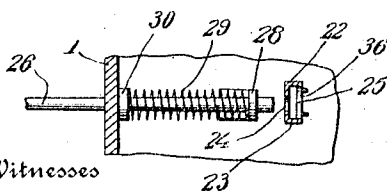
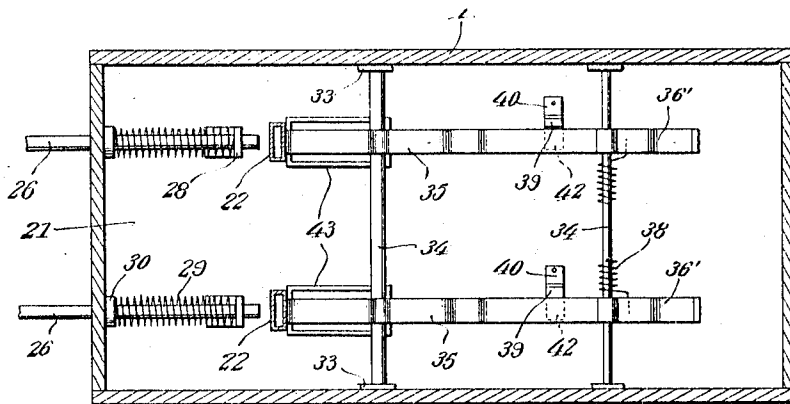
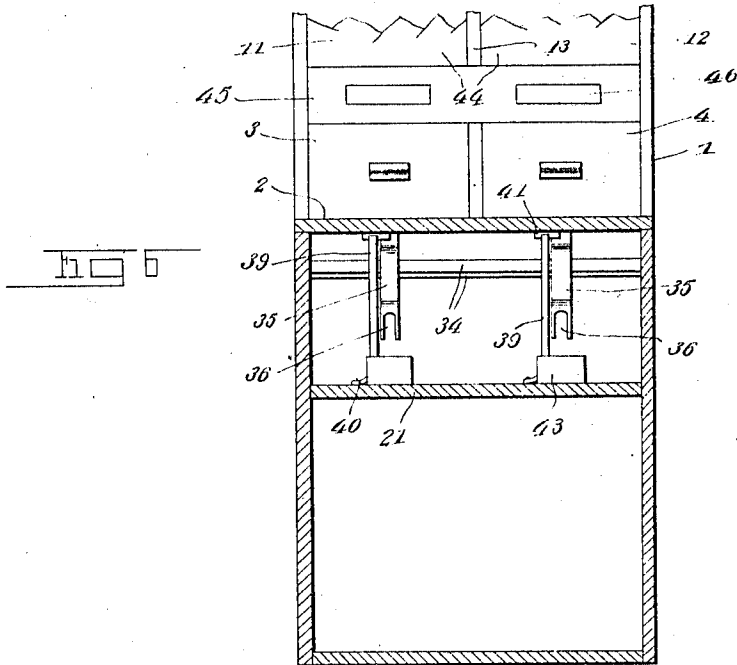
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

JAMES V. VANDAGRIFF, OF LYRA, TEXAS.

VENDING-MACHINE.

1,051,786.

Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed May 5, 1911. Serial No. 625,294.

To all whom it may concern:

Be it known that I, JAMES V. VANDAGRIFF, a citizen of the United States, residing at Lyra, in the county of Palo Pinto and State of Texas, have invented new and useful Improvements in Vending-Machines, of which the following is a specification.

This invention relates to vending machines and more particularly to coin or check controlled vending machines.

The principal object of the invention is the provision of a simple, cheaply constructed and efficient machine which will deliver articles upon the insertion of a coin of proper denomination and in which the parts are placed in operative position only upon return of the packet or article carrier.

A further object of the invention is the provision of a novel form of coin chute which holds the coin in proper position to operate the parts when of the proper denomination and which will permit the passage of a coin smaller than one of proper denomination and which is located in such a manner that a coin cannot be inserted until the package carrier is carried to normal position.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawings, which form a part of this application, and in which:—

Figure 1 is a perspective view of the device with one of the drawers open. Fig. 2 is a vertical section taken through the device on the line 2—2 of Fig. 1. Fig. 3 is an enlarged section taken on the line 3—3 of Fig. 2. Fig. 4 is an enlarged detail section through the machine showing one of the drawers or package receptacles in side elevation. Fig. 5 is a bottom plan view of one of the drawers. Fig. 6 is a detail vertical section taken on the line 6—6 of Fig. 2. Fig. 7 is an enlarged section taken through one of the coin chutes. Fig. 8 is a horizontal section on the line 8—8 of Fig. 2. Fig. 9 is a similar view on the line 9—9 of Fig. 2.

Referring more particularly to the drawings, 1 represents a casing which is provided, at its lower portion, with an offset table 2 upon which the package receptacles, or drawers, 3 and 4 are adapted to rest when in open position. The casing may be supported upon a counter, stand or bracket and has its bottom 5 inclined and its rear

ends supported upon legs 6. Extending transversely across the upper part of the casing is a partition or floor 7 which supports a vertical partition 8, and this vertical partition forms dispensing and storage compartments 9 and 10. The compartment 9 is separated into independent compartments 11 and 12 by a partition 13 so that packages of candy or similar articles may be held in one compartment and articles of a different character held in another compartment. The drawers 3 and 4 are both provided with a recess 14, the recess 14 of drawer 3 registering with and adapted to receive the articles in the compartment 11 while the recess 14 in the drawer 4 registers with and is adapted to receive the articles in the compartment 12. The recesses 14 are formed near the forward end of the drawer and immediately behind the recess the drawer is formed with a top plate 15 upon which the articles in the compartments rest when the drawer is extended, as shown in Fig. 1. Each outward movement of the drawer carries with it a package, the succeeding package resting upon the top 15 until the drawer is returned to closed position, at which time the package resting upon the top will drop into the recess 14 and be in position to be dispensed when the drawer is again thrown to open position, as will hereinafter be described.

Extending across the separate drawers, from side to side and from the top 15 to the bottom 16 of each, is a bridge piece 17 which is apertured to receive a bolt 18 connected to the casing and having on its free end a limiting nut 19 which limits the movement of the drawer. Between the casing and the bridge piece 17 is a spiral spring 20 which surrounds the bolt 18 and is compressed, when the door is held in closed position, so that, upon release of the drawer as will hereinafter be described, the drawer is projected by the spring until stopped by the engagement of the nut with the bridge piece.

Extending across the casing, intermediate the table 2 and the bottom of the machine, is a platform or floor piece 21 and extending between the platform and the floor piece 21 is a coin chute 22 which is provided with a restricted portion 23 and an aperture 24 opposite the same. The restricted portion is made so as to hold a coin of proper denomination and the aperture 24 is of such

size as to permit the coin held by the restriction to be ejected through the aperture laterally of the chute. The opposite or forward side of the chute is also provided with an aperture 25 to permit the passage of the plunger 26 which is provided at its outer end with a thumb button 27 and has its inner end slidably mounted in a bracket 28 carried by the floor piece 21 and is normally held in projected position by means of a spiral spring 29 which surrounds the plunger and is arranged between the bracket 28 and a collar 30 keyed to the plunger. The lower end of the chute 22 communicates with a diagonal chute 31 whose discharge is located immediately above the receiving cup 32 carried by the front of the casing below the table. The arrangement of dispensing drawer, coin chute and discharge chute is duplicated upon the opposite side of the machine and may, if necessary, be duplicated any number of times so that more than two articles of different types may be dispensed from the same machine.

Secured in plates 33 arranged at the sides of the casing, above the floor piece 21, is a shaft 34 upon which are pivoted the levers 35, each of which is substantially S-shaped and has its forward end slotted, as at 36 and arranged closely adjacent the coin chute 22. The slot 36 is positioned, when the lever is at normal, coincident with the slots 25 and 24, and permits the ready passage of the plunger. The slot is, however, too narrow to permit the passage of a coin and therefore when one is pressed against the lever by the plunger the rear end of the lever will be raised. The rear end of each of these levers is positioned to lie beneath the forward end of a tripping lever 36', whose rear end is adapted to engage a short rack bar 37 upon the drawer and has its forward end normally thrown downwardly into engagement with the rear end of the lever 35 by a spiral spring 38.

In order that the levers may be held in their operative position by the plungers when a coin of proper denomination has been deposited, there is pivoted to the floor piece 21 a pawl arm 39 which has its upper end lying in the path of, and is held against, the lever by a leaf spring 40. The upper end of the pawl arm extends above the lever 35 and lies in the path of a releasing cam 41 carried by the drawer. Immediately below the upper end the lever carries an offset tooth 42 which is adapted to be engaged beneath the rear end of the lever 35 when the same is operated.

The operation of the device is as follows: A coin of proper denomination being inserted in the chute 22, the plunger 26 is depressed which passes through the aperture 25, engages the coin and forces the same

through the aperture 24, contacting it with the inner end of the lever 35, the coin being bridged across the slot 36. A continued movement of the plunger will now force the lever 35 to the position shown in dotted lines in Fig. 2 and, in assuming this position, the rear end of the lever 35 will operate to raise the forward end of the tripping lever 36 and depress its rear end, so that it will be disengaged from the rack bar 37. When the tripping lever is released from the rack bar 37 the spring 20 will throw the drawer to open position, as shown in Fig. 1, carrying with it a package or article and supporting upon the top the remaining packages in the compartment 9. At the same time the tooth 42 will engage beneath the inner end of the lever 35 and hold it in operation against the tension of the spring 38 so that, when the plunger 26 is released, the coin held against the forward end of the lever 35 will be deposited in the coin receptacle 43. When the door is pushed back to closed position the cam piece 41 first engages the upper end of the pawl arm 39 and releases the tooth from the lever 35 so as to permit the spring 38 to throw both levers 35 and 36 to normal position. The rear end of the lever 36 then engages the rack bar and locks the drawer in closed position. At the same time a new package drops into the receptacle 14. If a coin of smaller diameter than a coin of proper denomination is deposited in the chute it will pass the restricted portion 23 and enter the diagonal chute 31 and from thence will pass into the cup 32, so that it is returned to the operator.

The front of the casing is preferably constructed of glass 44 and immediately below the glass, and between the same and the drawers, is a panel 45 in which suitable spaces 46 are formed to receive cards indicating the contents and also the price of the articles to be sold.

Having thus described the invention, what I claim as new is:—

1. In a vending machine, a casing, an article dispensing device slidably mounted therein, means for normally projecting said dispensing device, means for locking the same within the casing, mechanism for releasing said locking means, means for holding a portion of said mechanism in operated position, and means carried by the dispensing device for releasing said holding means.

2. In a vending machine, a casing, a spring ejected dispensing device slidably mounted in the casing, means for locking said dispensing device in closed position, mechanism for releasing said locking means, means for holding said mechanism in operated position, and means acting upon the closure in the dispensing device for releasing said holding means.

3. In a vending machine, a casing, an article dispensing device slidably mounted therein, means for normally projecting said dispensing device, means for locking said
5 dispensing device in closed position, mechanism for releasing said locking means, means for holding a portion of said mechanism in operated position, means acting, when the dispensing device is forced into the

casing, to release said holding means, and 10 means for returning the mechanism to normal.

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

JAMES V. VANDAGRIFF.

Witnesses:

W. O. STEPHENS,
C. A. BRUNER.