

S. D. POLSEN & I. ELSON.
 COIN CONTROLLED VENDING MACHINE.
 APPLICATION FILED MAY 19, 1911.

1,015,709.

Patented Jan. 23, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

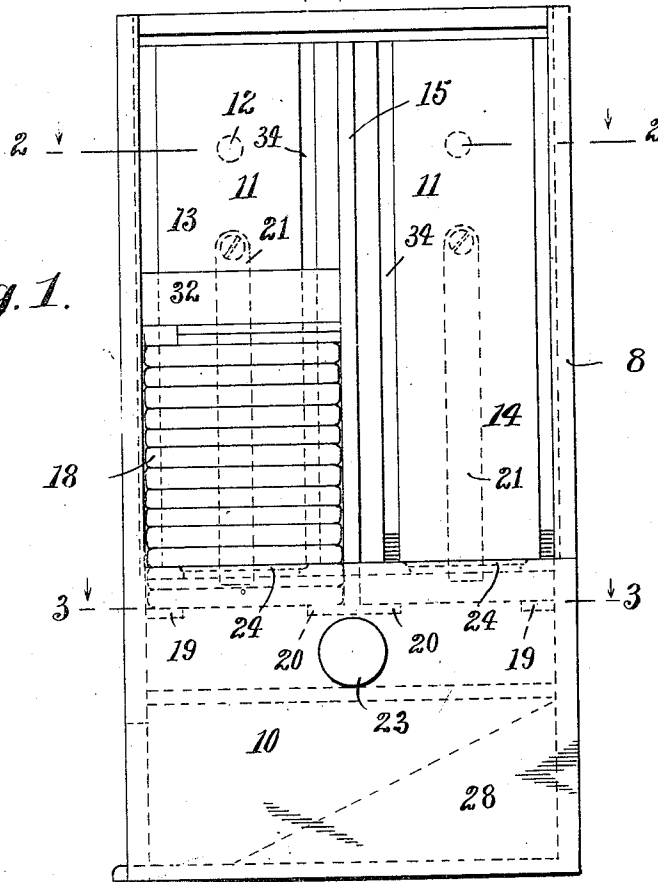
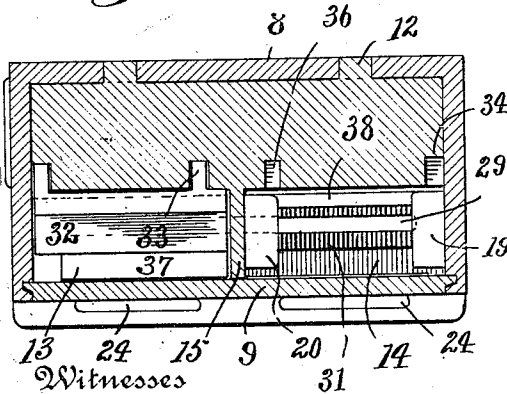
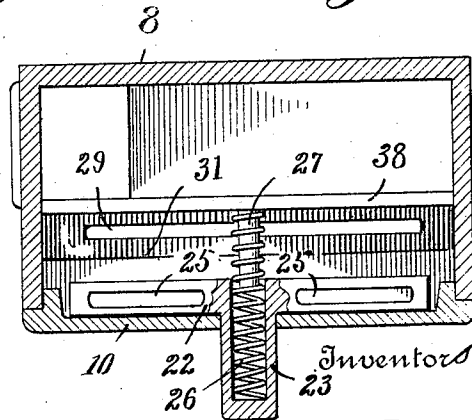


Fig. 2.



Witnesses
 Ernst P. Wald
 Ivan L. Morehouse

Fig. 3.



Inventors
 Samuel D. Polsen
 and Irving Elson
 By Chamberlain & Newman Attorneys

S. D. POLSEN & I. ELSON.
 COIN CONTROLLED VENDING MACHINE.
 APPLICATION FILED MAY 19, 1911.

1,015,709.

Patented Jan. 23, 1912.

2 SHEETS—SHEET 2.

Fig. 4.

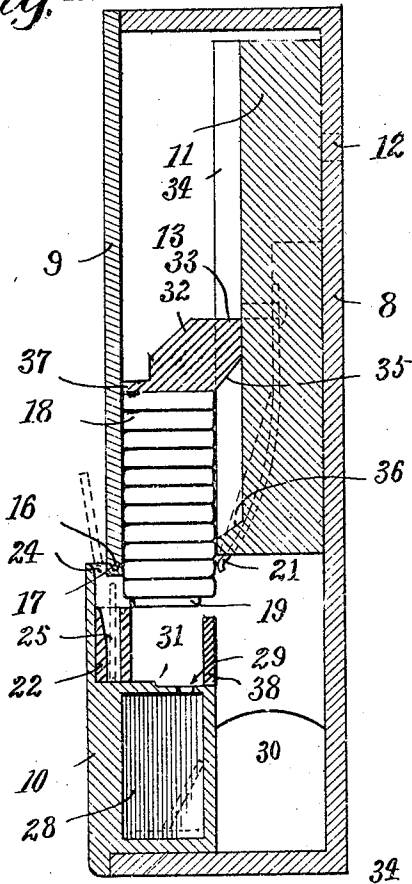


Fig. 5.

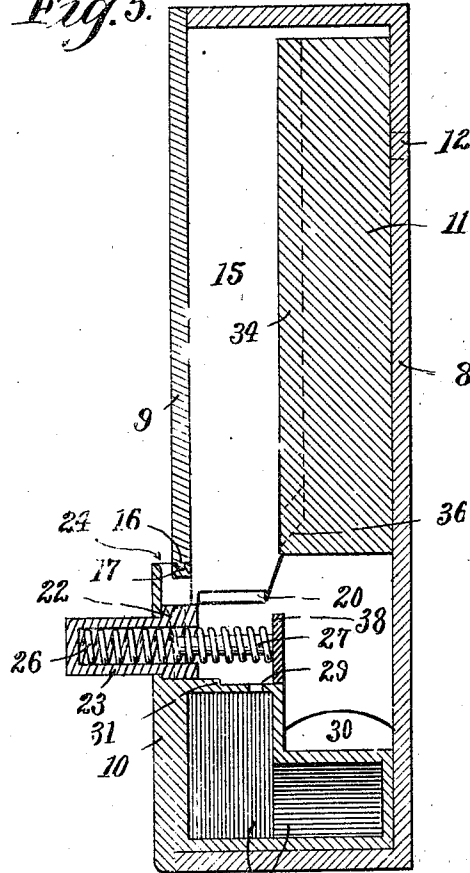


Fig. 6.

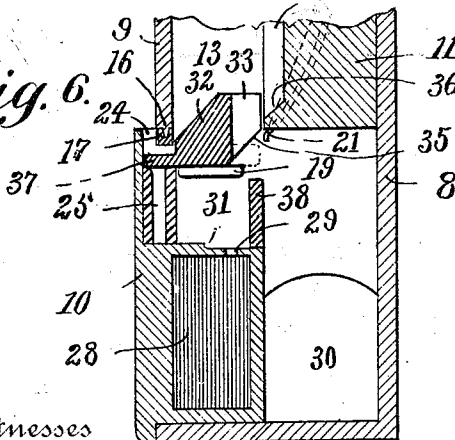
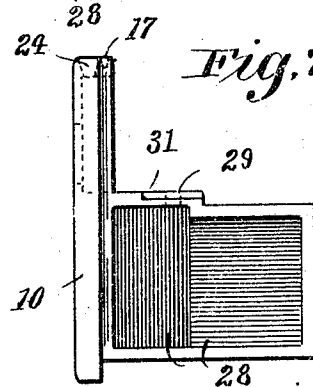


Fig. 7.



Witnesses
 Ernst K. Wold
 Isaac L. Morehouse

Inventors
 Samuel D. Polsen
 and Irving Elson
 By Chamberlain & Newman Attorneys

UNITED STATES PATENT OFFICE.

SAMUEL D. POLSEN AND IRVING ELSON, OF BRIDGEPORT, CONNECTICUT.

COIN-CONTROLLED VENDING-MACHINE

1,015,709.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed May 19, 1911. Serial No. 628,172.

To all whom it may concern:

Be it known that we, SAMUEL D. POLSEN and IRVING ELSON, citizens of the United States, and residents of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Coin-Controlled Vending-Machines, of which the following is a specification.

This invention relates to coin controlled vending machines and particularly to that class of automatic vending machines in which coins of predetermined dimensions are inserted through a slot and deposited in a suitable ejector, and through the intervention of which a package or other article of merchandise to be vended is ejected by the operation of the machine.

The objects of the invention are to provide a simple and practical form of automatic vending machine which will be particularly well adapted for attachment to the backs of chairs, such as are used in theaters, picture shows and the like; to provide an apparatus which will be sure to deliver a package of merchandise in return for the coin after the same has once been inserted; and further to so arrange the parts as to prevent the insertion of a coin at such times as when there are no packages in the machine to be vended.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claims may be resorted to without departure from the spirit or sacrificing any of the advantages of the invention.

Similar characters of reference denote like or corresponding parts throughout the several figures of the accompanying drawings forming a part of this specification and upon which,

Figure 1, shows a front elevation of our improved coin controlled vending-machine, with the upper detachable front inclosing plate removed, and showing one side of the machine partly filled with chocolates. Fig. 2, is a cross sectional plan view of the same, taken on line 2—2 of Fig. 1. Fig. 3, is a further cross sectional plan view taken on

line 3—3 of Fig. 1, which is below the section line of Fig. 2. Fig. 4, is a vertical sectional view through one of the side portions of the machine taken on line 4—4 of Fig. 1. Fig. 5, is a further central vertical sectional view taken on line 5—5 of Fig. 1. Fig. 6, is a detail vertical sectional view taken on the same lines as Fig. 4, but showing the machine in an emptied and locked position, and, Fig. 7, shows a detached end view of the coin till, which also forms the lower front portion of the machine.

As will be noted the machine as designed is a double machine made to accommodate two different kinds of commodities as for instance, chocolates and chewing gum. The compartments for the packages are separate, but arranged side by side and are so constructed as to discharge the packages through the same side outlet.

Referring in detail to the characters of reference marked upon the drawings 8 represents the main body of the case of the machine, 9 the detachable front plate which may be removed from time to time for the purpose of refilling the machine with packages of candy, chewing gum, or the like, such as it is designed to vend.

10 indicates the removable coin till located in the lower portion of the machine and forming the lower front thereof.

A filling block 11 is secured in the upper rear portion of the machine and forms the rear wall of the compartment and against which the packages to be vended, slide. This block is preferably formed separate and sets into the case, being provided with suitable lugs 12 on the rear side that engage corresponding holes in the back of the case, to support the block in position. The two compartments 13 and 14 for the packages, are located in the upper front portion of the machine and are separated one from the other by a central wall which projects forward from the block 11 before mentioned. The removable front plate 9 is fitted to the slide in suitable vertical grooves of the side walls of the case, and may thus be drawn up to open the case to renew the supply of packages. This plate also serves to hold the coin till in position, when closed, by means of its lower reduced transverse edge 16, engaging a suitable transverse groove 17 in the top edge of the coin till in a way to prevent its displacement. This front plate also forms the front

wall of the package compartments, and wherein the packages 18 are arranged in tiers one above the other, the machine operating each time to remove the lower one of the pile. These piles of packages are supported upon suitable narrow shelves 19 and 20 projected inward from the outer side walls of the case and the before mentioned central wall 15 respectively, in a way to allow the coin to be moved rearward therebetween with the movement of the package. A pair of springs 21 are secured to the rear side of the block 11 and are free to operate in suitable spaces of the rear edge of the second lowest package in a manner to prevent their displacement while the bottom package is being moved.

In the lower part of the case is located the coin till with its associate parts and mechanisms including the operative double slide 22 having a push button 23 that projects out through the front of the till. The front of this till projects out slightly in front of the front plate 9 and is provided in its top edge with suitably shaped coin slots 24, through which the coins are passed to the pockets 25 of the before mentioned double slide 22. A spring 26 having one end seated in a pocket of the slide and the other end upon a pin 27 secured to a bridge piece 38, serves to normally hold the slide in its outer position beneath the before mentioned slots 24. The push button of this slide is located central of the slide while the said coin pockets 25 are located one in each end portion. It will thus be seen that when a coin is placed in either of these pockets its upper edge will project upward sufficiently to engage the lower package and shove it rearward and out from beneath the pile when the push button is shoved in against the action of the spring. The whole of the slide moves together when the button is operated and if two coins are previously placed therein the two packages will be discharged simultaneously, whereas, if but one coin be inserted but one side only becomes operative.

The particular part 28 of the till in which the coins are dropped is perhaps best shown in Figs. 6 and 7 and is open on the rear end so that the money may be readily removed when the till is withdrawn from the case. The coins are dropped into this till through the elongated slot 29 formed in the top of the till, upon which the slide operates, and at such times as when the slide has been shoved back against the bridge piece 38 secured to the sides of the case. This movement of the slide is enough so that its pockets 25 will register with the said slot to drop the coin, and is also sufficient to insure the discharge of the package in the rear side. The lower package is thus shoved rearward and when freed from the package above falls back upon the inclined top por-

tion of the coin till, and slides down and out through the side opening 30 in the side of case.

A shoulder 31 is formed in the top surface of the coin till, which allows the coins to drop slightly after the slide has been shoved in a sufficient distance to dislodge the package and thus to prevent the slide from being allowed to come back after the package has been delivered and before the coin has been deposited in the till.

A combined weight for the packages, and locking device is arranged in each package compartment as is indicated by 32. This weight is provided with a pair of fins 33 that slide in a pair of vertical grooves 34 of the block, and are provided with a beveled lower edge 35 which engages the inclined lower end 36 of the grooves in block, so that the weight will be shoved forward when it reaches its lower position. This forward movement of the weight causes its forwardly extended lower edge 37 to be projected between the ledge containing the coin slots and the slide having the coin pockets, which obviously closes the coin passage and prevents the insertion of another coin when the machine is emptied.

Having thus described our invention what we claim, and desire to secure by Letters Patent is:—

1. In a coin actuated vending machine, the combination of a case containing a package compartment, a coin slot in the case, a movable slide having a coin pocket to register with the coin slot in the case, a weight arranged upon the package while in the compartment and having a forwardly disposed transverse edge, and means for causing the said weight to move forward and its said transverse edge to be projected between the coin slot and coin pocket to close the passage from one to the other after the last package has been discharged.

2. In a coin actuated vending machine, the combination of a case containing a package compartment with longitudinal grooves in its side wall, a coin slot in the case, a movable slide having a coin pocket to register with the coin slot in the case, a vertically slidable weight loosely arranged upon the packages while in the compartment and having fins to slide in the grooves of the side wall and means for causing the said weight to be moved forward between the coin slot and the coin pocket after the last package has been discharged.

3. In a coin actuated vending machine, the combination of a case having a package compartment with grooves adjacent thereto and having inclined lower ends, and a coin slot in the case, a movable slide spaced from the said slot and having coin pockets to register with the coin slot in the case, a weight arranged upon the package

and having fins to slide in the grooves and engage the inclined lower ends of the grooves in a way to cause the said weight to move forward between the coin slot and
5 coin pocket after the last package has been discharged in a manner to prevent further coins from being inserted.

4. In a coin actuated vending machine, the combination with a case having two
10 package compartments and two coin slots in the case, a movable slide having a central hollow push button and a coin pocket in each end, portion to register with the coin slots in the case, a spring within the push
15 button to normally hold the slide in its for-

ward position, a bridge piece and post to support the spring, weights movably mounted in the compartments and having a forwardly extended edge, and means to engage the weight and shove its forward edge in
20 between the coin slots and the coin pockets after the last package has been discharged.

Signed at Bridgeport in the county of Fairfield and State of Connecticut this 17th day of May, A. D. 1911.

SAMUEL D. POLSEN.
IRVING ELSON.

Witnesses:

C. M. NEWMAN,
RUTH M. WOODEN.