

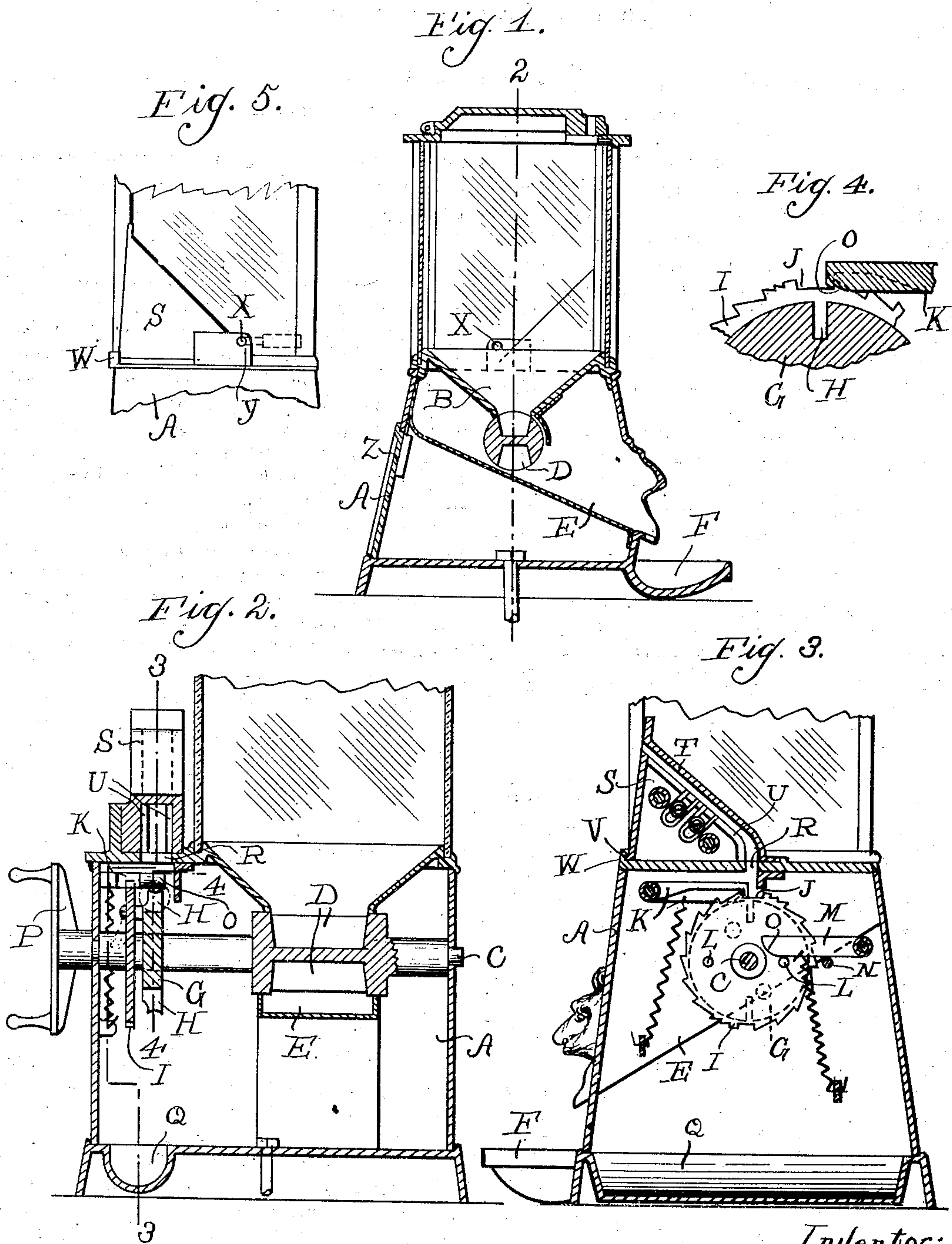
No. 768,412.

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C. A. WAGNER.  
AUTOMATIC VENDING MACHINE.

APPLICATION FILED JUNE 24, 1901.

NO MODEL.



Witnesses:

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# UNITED STATES PATENT OFFICE.

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TO OSCAR E. WAGNER, OF CHICAGO, ILLINOIS.

## AUTOMATIC VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 768,412, dated August 23, 1904.

Application filed June 24, 1901. Serial No. 65,780. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES A. WAGNER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Automatic 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 a novel construction in an automatic vending-machine, the object being to provide a device of this character of very simple and efficient construction; and it consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a central vertical section of a machine constructed in accordance with my invention. Fig. 2 is a section on the line 2 2 of Fig. 1. Fig. 3 is a fragmentary detail section on the line 3 3 of Fig. 2. Fig. 4 is a fragmentary detail section on the line 4 4 of Fig. 2. Fig. 5 is a detail fragmentary view in elevation, showing the method of locking the coin-receiver on the machine.

Referring now to said drawings, A indicates the base, and B the hopper portion, of my vending-machine. Journaled in bearings in the side walls of said base portion A is a shaft C, carrying a drum provided with pockets D at diametrically opposite points, which are adapted to alternately be filled from said hopper B. When said shaft is turned, the mouth of the hopper is closed by the solid part of said drum D until the next pocket registers with said mouth, while the contents of the first pocket are dumped into an inclined chute E and delivered into a pocket F on the outside of said base A. Said shaft C carries a wheel G, having recesses H at diametrically opposite points corresponding with said pockets of said drum and adapted to receive the coin. Adjacent said wheel G is a ratchet-wheel I, provided with an elongated recess J opposite each of said recesses H of said wheel G. A spring-

actuated dog K, pivotally mounted on one of the walls of said base A, engages said ratchet-wheel and when resting in one of said elongated recesses J holds said ratchet-wheel against movement greater than the peripheral length of said recess in either direction. Said ratchet-wheel I is further provided on one side with two pins L midway between said recesses J, which are adapted to be engaged by a spring-actuated dog M, pivotally secured to one of the walls of said base A and which is limited in its downward motion by means of a stop N on the wall of said base A, to which said dog is secured. The said dog K is of such width as to project over the wheel G and is beveled at its free end, as at O, said beveled portion O being adapted to be engaged by the projecting portion of a coin resting in one of said recesses H when said shaft is turned, thereby raising said dog out of engagement with said ratchet-wheel until the same has passed the first tooth beyond the elongated recess, when it drops and again engages said ratchet-wheel, thereby preventing reverse motion of the shaft. Said shaft C may be given a half-turn by means of the crank P until the dog again rests in one of the recesses J, which prevents further movement. The recess H, containing the coin, having been inverted the coin drops out into the receiving-recess Q in the bottom of base A. The said dog M serves to hold the ratchet-wheel I and wheel G normally at one limit of motion relatively to the elongated recess J, engaged by said dog K, thereby holding the recess H in wheel G in alinement with the coin-slot R, and as said shaft is turned said dog is forced out of the path of one of the pins L and springs back into the path of the other. Removably mounted on said base A is a coin-receiver S, comprising a casing having parallel side walls and an inclined top T. Said side walls are each provided with a rib U adjacent to and parallel with said top T, thereby providing a guide for the coin connecting the receiving-slot in the front wall of said casing S with the coin-slot R. Said ribs U are cut away to provide recesses into which the ends



of permanent horseshoe-magnets project, which serve to attract any iron or steel disks or washers which may be inserted in lieu of coin. Said ribs U are also of minimum depth, 5 so as to provide a large space between the same, whereby any small-sized disks, &c., will drop between the same and leave the coin-chute clear. Said coin-receiver S is open at the bottom and at the lower end of the front 10 wall is provided with a projecting lug V, which is adapted to enter an opening in an upwardly-projecting lug W on said base A. One of the side walls of the receiver S is extended rearwardly to provide an eye X, which is adapted 15 to register with a similar eye Y on the base A. By means of a padlock said receiver is locked on the base A, and if clogged the party in charge of the machine can easily remove the receiver and clear the same and then re- 20 place it.

The base A is provided with a door Z, through which the coin is removed.

I claim as my invention—

1. In a vending-machine, the combination 25 with the casing, of a shaft journaled therein, a wheel secured to said shaft adjacent one of its ends, and provided with peripheral recesses, a ratchet-wheel secured to said shaft to one side of the first-named wheel, a pair of pins 30 secured to the side of said ratchet-wheel, and a spring-actuated dog pivotally mounted in the casing and being in engagement with the said ratchet-wheel, and having its free end provided with a beveled extended portion pro- 35 jecting over the said first-named wheel, a spring-actuated dog in engagement with said pins, and a stop secured to the said casing for

limiting the downward movement of the said last-named pawl, substantially as described. 40

2. In mechanism of the character described, 40 the combination of a shaft equipped at its outer end with actuating means, a coin-wheel fixed to said shaft and provided peripherally with coin-recesses, a ratchet-wheel fixed to rotate 45 with said shaft and equipped with sets of teeth separated by spaces, the number of sets of teeth corresponding to the number of coin-recesses, and a pawl preventing retraction of said ratchet-wheel.

3. In mechanism of the character described, 50 the combination of a shaft, equipped at its outer end with an actuating means, a coin-wheel fixed to the inner end of said shaft and provided peripherally with coin-recesses, a ratchet-wheel fixed to rotate with said shaft and 55 equipped with sets of teeth separated by spaces, the number of sets of teeth corresponding with the number of coin-recesses, a pawl preventing the retraction of said ratchet-wheel, studs projecting from a lateral surface 60 of said coin-wheel and separated by spaces between coin-recesses, a coin-chute leading to the periphery of said coin-wheel, and a pivoted spring-actuated member acting upon the studs of said coin-wheel and serving to bring 65 the appropriate coin-recess into registration with said chute after each registration.

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

CHARLES A. WAGNER.

Witnesses:

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E. F. WILSON.