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PATENTED JAN. 22, 1907.

H. O. JACKSON.

RECEIVER FOR COIN CONTROLLED VENDING MACHINES.

APPLICATION FILED FEB. 24, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

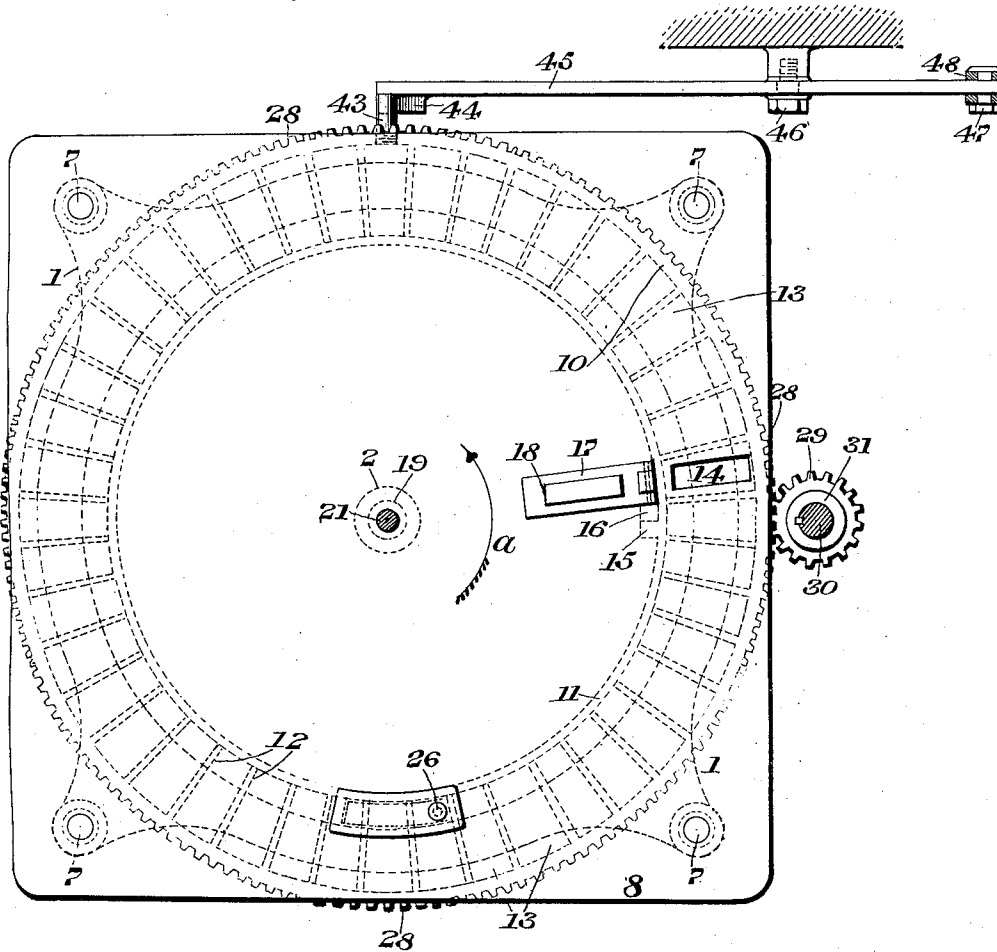
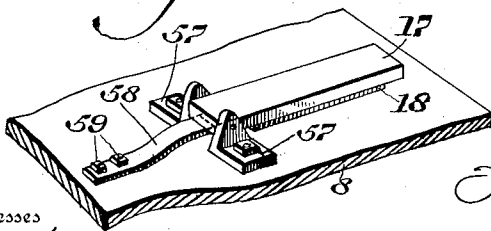


Fig. 4.



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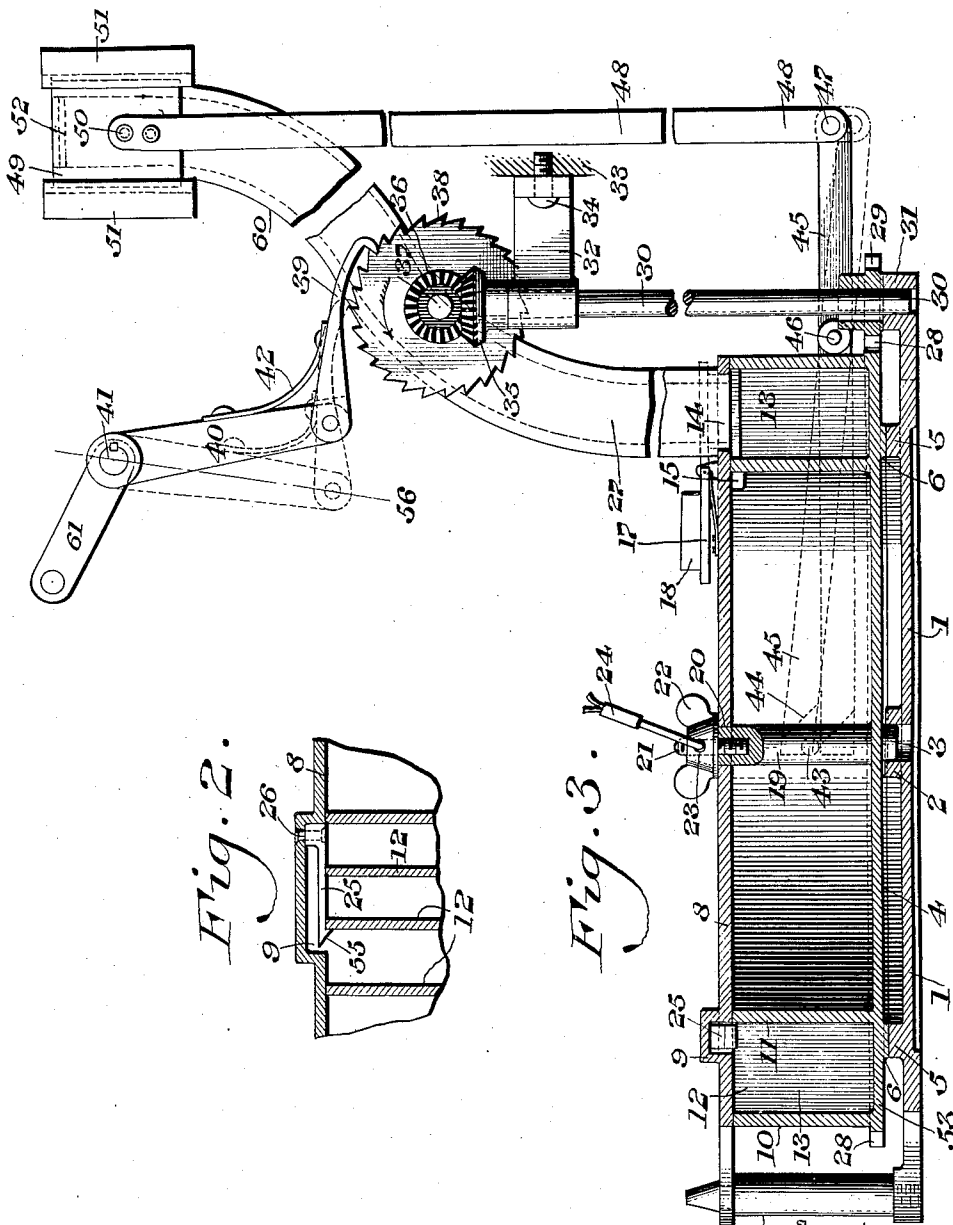
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

HENRY O. JACKSON, OF NORFOLK, VIRGINIA, ASSIGNOR TO SOUTHERN SAVINGS LIFE AND ACCIDENT INSURANCE COMPANY, OF NORFOLK, VIRGINIA, A CORPORATION OF VIRGINIA.

RECEIVER FOR COIN-CONTROLLED VENDING-MACHINES.

No. 841,976.

Specification of Letters Patent.

Patented Jan. 22, 1907.

Application filed February 24, 1906. Serial No. 302,763.

To all whom it may concern:

Be it known that I, HENRY O. JACKSON, a citizen of the United States, residing in the city and county of Norfolk, State of Virginia, have invented a new and useful Receiver for Coin-Controlled Vending-Machines, of which the following is a specification.

In a prior patent granted to Ellsworth E. Flora, No. 748,272, patented December 29, 1903, it has been purposed to construct a machine specially adapted for the purpose of stamping and vending insurance-tickets and the like, wherein a machine was adapted to operate on a three-coupon ticket, one coupon of which is severed from the main ticket and deposited in an individual compartment of a chambered magazine along with the coin which has been deposited by the purchaser, thus affording a means of detection if a bogus coin is employed, the two remaining coupons of the ticket being stamped with the hour and minute of the sale and the purchaser signing one of said coupons and depositing it in the coupon-slot of the machine, but retaining the other coupon as evidence of his purchase of insurance.

In my present invention I have shown the preferred form of a device which is adapted to be operated in a machine of the general character of the Flora machine aforesaid wherein I employ a novel construction of rotatable receiver provided with compartments for the reception of a coupon and coin, provision being made for enabling the rotation of said receiver to be effected in a positive manner and means being provided for locking said receiver from improper rotation and for effecting the sealing of the receiver in position, so that the same when assembled in position and sealed cannot be removed or tampered with except by some person properly authorized.

While I have shown my present invention as particularly adapted for the vending of insurance-tickets or the like, it will be apparent that I do not desire to be limited thereto in every instance, since the machine is adapted for other purposes as well.

For the purpose of illustrating my invention I have shown one form of machine, as this embodiment best illustrates the principle of my invention, although it is obvious

that the principal instrumentalities of which my invention consists can be variously arranged and organized, and in the accompanying drawings I have shown one embodiment thereof which I have found in practice to give satisfactory results, although it is to be understood that my invention is not limited to this specific arrangement and organization of these instrumentalities.

To the above ends my invention consists, broadly, of an annular or similar shaped receiver having a plurality of chambers arranged successively therein, said receiver being adapted to be locked in position and sealed within the apparatus and to be thereafter removed when filled by a person properly authorized.

It further consists of a novel construction of rotatable receiver having means for intermittently actuating the same, provision being made for locking said receiver and the latter and having a stationary cover, provision being made for locking and sealing said cover with respect to said receiver.

It further consists of novel means for closing the coin-slot in the machine when the coin and coupon receiver is full.

It further consists of novel means for securing the coin and coupon receiver in position until the same is placed in the machine.

It further consists of novel means for preventing the rotation of the coin and coupon receiver in but one direction while the same is being filled.

It further consists of novel means for sealing the cover with respect to the coin and coupon receiver, whereby any tampering with the machine or removal of the cover may be readily discovered and prevented.

It further consists of novel details of construction, all as will be hereinafter fully set forth.

Figure 1 represents a plan view of a coin and coupon receiver embodying my invention, said coin and coupon receiver being shown in the position it assumes when filled and certain parts thereof being removed for clearness of illustration. Fig. 2 represents a sectional side elevation of the locking device which prevents any improper or rearward movement of the receiver. Fig. 3 represents a sectional elevation of the coin and coupon

receiver and certain of its adjuncts, showing a coin-slot-closing device and locking devices which prevent the rotation of the receiver in either direction when filled and in but one direction while the same is being filled and means for actuating said receiver. Fig. 4 represents a perspective view of a portion of the cover and the lock hinged thereto which is adapted to coact with the coin and coupon receiver.

Similar characters of reference indicate corresponding parts in the figures.

Referring to the drawings. 1 designates a bed or base having a centrally-located apertured lug 2, in which is seated the trunnion or journal 3 of the coin and coupon receiver 4.

5 designates an annular bearing or raised portion of the base 1, which forms a track on which the under side 6 of the coin and coupon receiver 4 is adapted to travel.

7 designates posts or standards rising from the base 1, to which is secured a cover 8, having a recess 9 therein which is preferably cast in said cover.

The coin and coupon receiver in the present instance is composed of the bottom plate or disk, which forms the base 53 thereof, and the outer and inner walls 10 and 11, the separate coin and coupon receiving chambers 13, each of which is formed between said outer and inner walls and the partitions 12 and is adapted to hold a single coin and coupon, so that when one of the chambers 13 is filled it is impossible for a coin or coupon to enter through the coin-slot 14 in the cover 8. On the inner upright wall 11 and integral therewith, if desired, is a lug or stop 15, which prevents any further rotation of the coin and coupon receiver 4 when the same is filled, owing to the contact of said lug or stop with a lug or stop 16, which is secured to or integral with the cover 8.

17 designates a lock pivoted in brackets 57, suitably secured to the cover 8 in any desired manner or integral therewith, if desired, said lock having a depending portion or tongue 18, which is adapted to extend through the coin-slot and engage a vacant or blank chamber in the coin and coupon receiver. This lock 17 is maintained in its closed position by means of a spring 58, which is secured at one end to the cover 8 by rivets, bolts, or equivalent devices 59, the free end of said spring extending under the lock 17, so as to cause the depending end 18 thereof to positively engage the sides of a vacant or blank chamber in the coin and coupon receiver in order that when the depending portion 18 engages the vacant or blank chamber in the coin and coupon receiver said receiver will be locked in position and cannot be rotated until said depending portion 18 on the lock carried by the cover is disengaged from the vacant or blank chamber therein. The lock 17 is in alinement with the coin-slot 14 in the cover 8, and the depend-

ing end 18 thereof passes through said slot and engages the sides of the first chamber in which a coin and coupon will be deposited, and thus determines the starting-point of the coin and coupon receiver 4.

19 designates a post rising from the bottom of the coin and coupon receiver 4 and extending through an aperture 20 in the cover 8, said post 19 having at its outer end a threaded stem 21, with which a thumb-nut 22 engages, there being an aperture 23 through said thumb-nut and the stem 21, through which is passed a lead or other sealing device 24 of any approved construction in order that after the cover has been placed in position it can only be removed by breaking the sealing device 24. The movement of the receiver in more than one direction is prevented by a spring-pawl 25, which is located in the recess 9 in the cover 8 and secured therein by means of a rivet or equivalent device 26, said pawl having the inclined nose 55, as will be understood from Fig. 2, so as to enable the receiver to readily rotate in the direction of the arrow *a*. (Seen in Fig. 1.)

27 designates the coin and coupon chute, which is preferably removably secured to the cover 8 in any suitable manner, so that it is directly over the coin and coupon slot 14, which extends through said cover.

The rim or outer wall 10 of the receiver has thereon the gear-teeth 28, which are adapted to mesh with the teeth of the pinion 29, mounted on the shaft 30, journaled in the boss or extension 31 of the base 1 and also in a bracket 32, which is secured to a suitable support 33 by means of a bolt or equivalent device 34.

35 designates a beveled or other gear, which is keyed to the shaft 30 and is adapted to mesh with a gear 36, loosely mounted on the stud 37.

38 designates a ratchet-wheel, secured to the gear-wheel 36.

39 designates a pawl, adapted to coact with the ratchet-wheel 38, said pawl being pivoted to a lever 40, which is keyed to a shaft 41, said lever 40 having secured thereto and to the pawl 39 a spring 42, which tends to always keep the pawl 39 in contact with the ratchet-wheel 38. The shaft 41 has extending therefrom a link or lever 61, said shaft 41 corresponding to the shaft G in the Flora patent aforesaid and the link or lever 61 corresponding to the arm G', it being apparent that this lever 61 may be either manually actuated or connected to suitable actuating mechanism, such as is shown in the patent to Flora.

43 designates a pin carried by the rotatable coin and coupon receiver 4, said pin being adapted to coact with the beveled end or cam 44 of a lever 45, fulcrumed at 46, the other end of said lever being pivoted at 47 to a connecting-rod 48, which is secured to a

slide 49 by fastening devices 50. This plate travels between the guide 51 and controls the coin-slot 52 of the machine, so as to close the same when the capacity of the machine is reached.

60 designates a coin-chute leading from the coin-slot and communicating with the coin-chute 27, which registers with the coin-slot 14 in the cover 8.

The operation is as follows: The coin and coupon receiver being empty, the cover 8 is placed in position, the thumb-nut 22 screwed in place, and the sealing device 24 adjusted, so that it is now impossible to remove the cover 8 without breaking the seal 24. The cover 8 is placed in such a position that the lug 15 thereon will be on the proper side of the lug 16, which is secured to the rim 11 of the coin and coupon receiver 4, so that said receiver will be permitted to rotate only in the direction of the arrow *a*. (Seen in Fig. 1.)

The receiver 4 is prevented from rotating in either direction until placed in the machine by means of the spring-lock 17, which lock is permanently hinged to the cover 8 and extends through the coin-slot 14 so as to engage the sides of the first chamber in which a coin and coupon will be deposited. The magazine is now placed in the machine in such a position that the coin-slot 14 in the cover 8 is directly under the removable coin and coupon chute 27. The lock 17 is now swung back and the removable coin and coupon chute 27 inserted in the coin-slot 14 of the cover 8, said chute 27 also registering with the coin-chute 60, it being understood that the cover 8 is stationary. It will now be understood that the receiver is free to rotate in the direction indicated by the arrow *a* in Fig. 1 when it receives an impulse from the gear 29, and the spring-pawl 25 on the cover 8 will prevent the rotation of the receiver 4 in the opposite direction. When an oscillating motion is imparted by any suitable means to the shaft 41, moving the lever 40 from the position seen in Fig. 3 to the position indicated at 56 and back to its initial position on the return stroke, the lever 40 by means of the pawl 39 and the spring 42 rotates the ratchet-wheel 38. The ratchet-wheel 38 communicates its motion to the receiver 4 through the gears 36 and 35, the shaft 30, and gear 29. The amount of rotation given to the ratchet-wheel 38 is so regulated that the coin and coupon slot 14 in the cover 8 will now be directly over the next vacant or empty chamber 13 in the receiver 4. It will be understood that during the forward motion of the lever 40 the operator has caused a coin and coupon to enter one of the chambers 13 of the coin and coupon receiver 4 and that it is the return stroke of the lever 40 that moves the next vacant chamber of the receiver 4 in position. This operation is re-

peated until the blank chamber in the receiver 4 is under the coin and coupon slot 14. At this time the lug 15 will engage the lug 16, and thus prevent any further rotation in the direction indicated by the arrow in Fig. 1, it being apparent that rotation in the opposite direction is prevented by means of the spring-pawl 25. When the last empty or blank chamber in the receiver 4 arrives in the position to receive a coin and coupon from the chute 27, the pin 43 on the rim of or outer wall 11 of the receiver 4 engages the lever 45, depressing it into the position seen in full lines in Fig. 4, thereby actuating the plate 49 and closing the coin-slot 52 in the machine, so that the intending purchaser is prevented in a positive manner from depositing a coin in the machine when the magazine is filled. The manner in which the slide or plate 49 operates or coacts with the slot 52 will be evident to those skilled in the art when considered in connection with the patent to Flora, above referred to, and Fig. 3, which is a diagrammatic view so far as pertains to the coin-chute and the slot-closing slide. It will be evident that it will be impossible for any one to change the coins and coupons in the receiver 4 without first breaking the seal 24 and removing the thumb-nut 22, by means of which the cover 8 is secured in place. It will thus be apparent that the coin which has been deposited by the purchaser will be brought into a separate chamber, together with the coupon, so that the ticket and the coin which has been deposited therefor may be positively identified.

It will be understood by those skilled in the art that my novel construction of annular rotatable coin and coupon receiver is adapted to be used in the base of a machine constructed in accordance with the Flora patent aforesaid, said annular receiver being located in the lowest portion of the machine and being adapted to be substituted in lieu of the coin and coupon receiver I seen in the Flora patent. I have purposely refrained from reproducing in full the drawings of the Flora machine aforesaid, since the construction and manner of operation and application of my novel coin-receiver to a machine constructed in accordance with the Flora patent will be clearly apparent to those skilled in the art.

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

1. In a device of the character described, a receiver having a plurality of chambers arranged successively therein, a base for said receiver and chambers, the latter being open at their top and adapted to coact with a cover and a sealing device, and a cover for said chambers having a slot beneath which said chambers are successively brought.

2. In a device of the character described, 130

an annular receiver having a plurality of chambers arranged successively therein, a base for said receiver and chambers, the latter being open at their top and adapted to coact with a cover and a sealing device, and a cover for said chambers having a slot beneath which said chambers are successively brought.

3. In a device of the character described, a chambered coin and coupon receiver, a cover therefor having a slot beneath which the chambers of said receiver are successively brought, a sealing device for preventing the improper removal of said cover, and means for rotating said receiver.

4. In a device of the character described, a base, a chambered coin and coupon receiver mounted thereon, standards rising from said base, a cover for said receiver carried by said standards and having a slot beneath which the chambers of said receiver are successively brought, means for sealing said cover with respect to said receiver, and means for rotating said receiver.

5. In a device of the character described, a chambered coin and coupon receiver, a cover stationary with respect thereto and having a slot beneath which the chambers of said receiver are successively brought, a sealing device for preventing the removal of said cover, means for preventing the improper rotation of said receiver, and means for intermittently rotating said coin and coupon receiver.

6. In a device of the character described, a chambered coin and coupon receiver, a cover stationary with respect thereto, a sealing device for preventing improper removal of said cover, a slot in said cover, and means for intermittently rotating said receiver to bring one of the chambers thereof into register with the slot in said cover.

7. In a device of the character described, a chambered coin and coupon receiver, a cover stationary with respect thereto, a sealing device for preventing improper removal of said cover, a slot in said cover, a chute for said slot, means for preventing improper rotation of said receiver, and means for intermittently rotating said receiver to bring one of the chambers thereof into register with said slot.

8. In a device of the character described, a chambered coin and coupon receiver, a cover stationary with respect thereto, a sealing device for preventing improper removal of said cover, a slot in said cover, a coin and coupon receiving chute discharging into said slot, means carried by said cover for preventing the improper rotation of said receiver, means for intermittently rotating said receiver, and means adapted to be actuated by said receiver to close the coin-slot of the machine when said receiver is full.

9. In a device of the character described, a chambered coin and coupon receiver, a cover

stationary with respect thereto, a sealing device for preventing improper removal of said cover, a coin and coupon slot in said cover, a chute registering with said slot, means carried by said cover to engage said receiver and prevent improper rotation of the same, a lever, and means intermediate said lever and said receiver for intermittently rotating the latter to bring the different chambers therein into register with said slot.

10. In a device of the character described, a base, a coin and coupon receiver rotatably mounted on said base and having a plurality of chambers, standards rising from said base, a cover for said rotatable receiver carried by said standards, means carried by said cover and engaging the sides of said chambers for preventing the improper rotation of said receiver, a sealing device for preventing improper removal of said cover from said receiver, a coin and coupon slot in said cover, a chute registering with said slot, a lock hinged to said cover in proximity to the slot thereon, means actuated by said receiver for closing said slot, and means for intermittently rotating said receiver to bring a chamber thereof into register with said slot.

11. In a device of the character described, a base, a coin and coupon receiver rotatably mounted on said base and having a plurality of chambers, standards rising from said base, a cover for said receiver carried by said standards, means carried by said cover and engaging the sides of said chambers for preventing improper rotation of said receiver, a sealing device for preventing the improper removal of said cover from said receiver, a coin and coupon slot in said cover, a chute registering with said slot, a lock hinged to said cover in proximity to the slot thereon, means actuated by said receiver for closing said slot, means for intermittently rotating said receiver to bring a chamber into register with said slot in said cover, and means for preventing rotation of said receiver when the chambers therein have been filled.

12. In a device of the character described, a bed, a receiver having chambers therein rotatably mounted on said bed, means for actuating said receiver, means for locking said receiver so as to prevent improper rotation thereof, a stationary cover for said receiver, said cover having a slot therein beneath which said chambers are successively brought, and means for locking and sealing said cover with respect to said receiver.

13. In a device of the character described, a rotatable chambered receiver having gear-teeth thereon, a pinion meshing with said teeth, means for actuating said pinion, a post carried within said receiver, a threaded stem on said post, a nut on said stem, an opening through said nut and stem, a sealing device for said nut and stem, a stationary cover for said receiver having a slot therein in radial

relation to the chambers of said receiver, a stop for said receiver and a locking device for preventing improper rotation thereof.

14. In a device of the character described, 5 a chambered coin and coupon receiver, a cover therefor, a sealing device for preventing access to said receiver, and locking devices intermediate said cover and receiver, the latter being adapted to be rotated when 10 in assembled position, said cover being non-rotatable.

15. In a device of the character described, a coin and coupon receiver, a cover therefor, a slot in said cover and a locking device car-

ried by said cover and having means adapted 15 to engage the walls of said slot and a chamber of said receiver.

16. In a device of the character described, a coin and coupon receiver, a cover therefor, a slot in said cover and a spring-actuated 20 locking device carried by said cover and having a tongue adapted to engage the walls of said slot and a chamber of said receiver.

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