

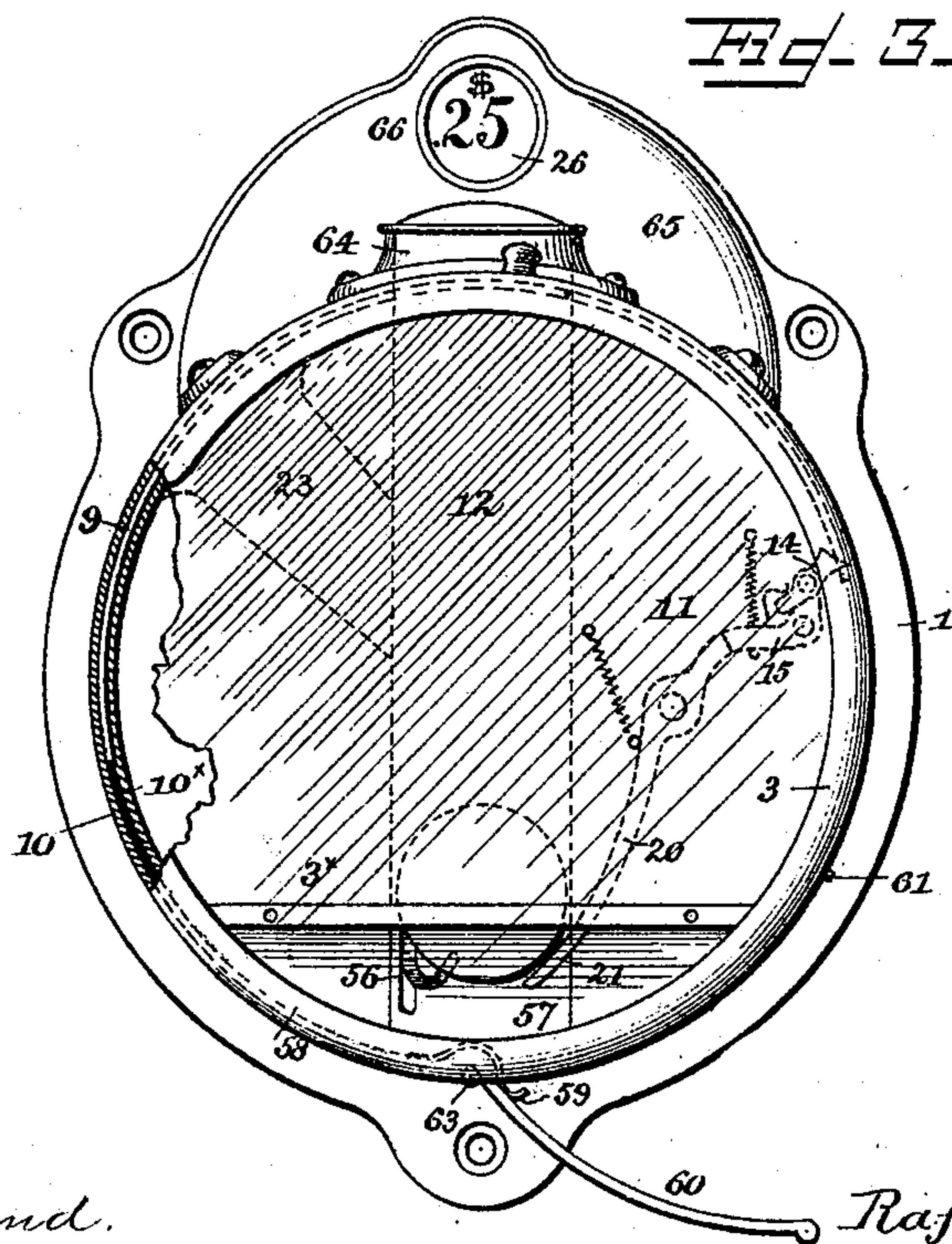
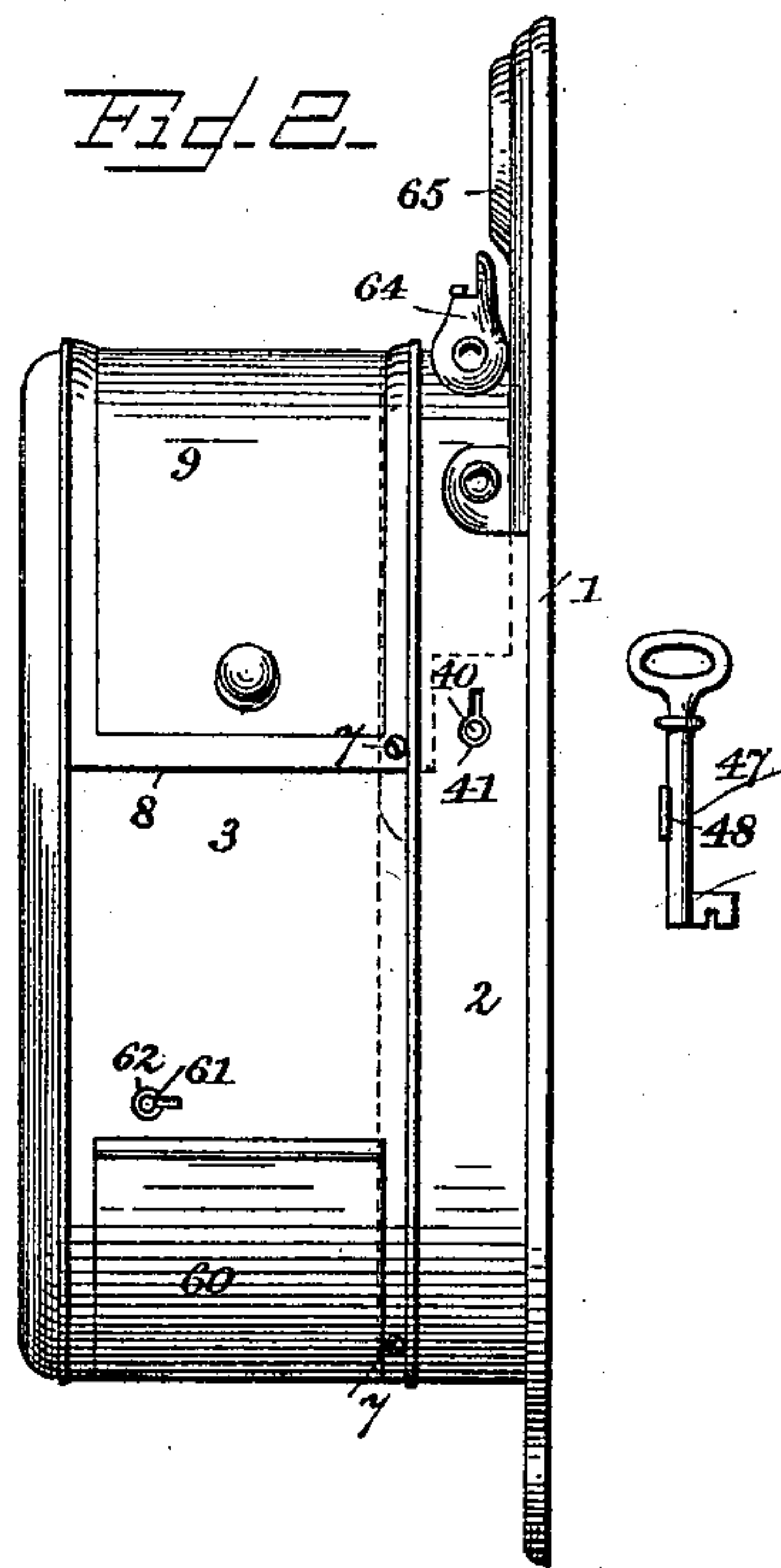
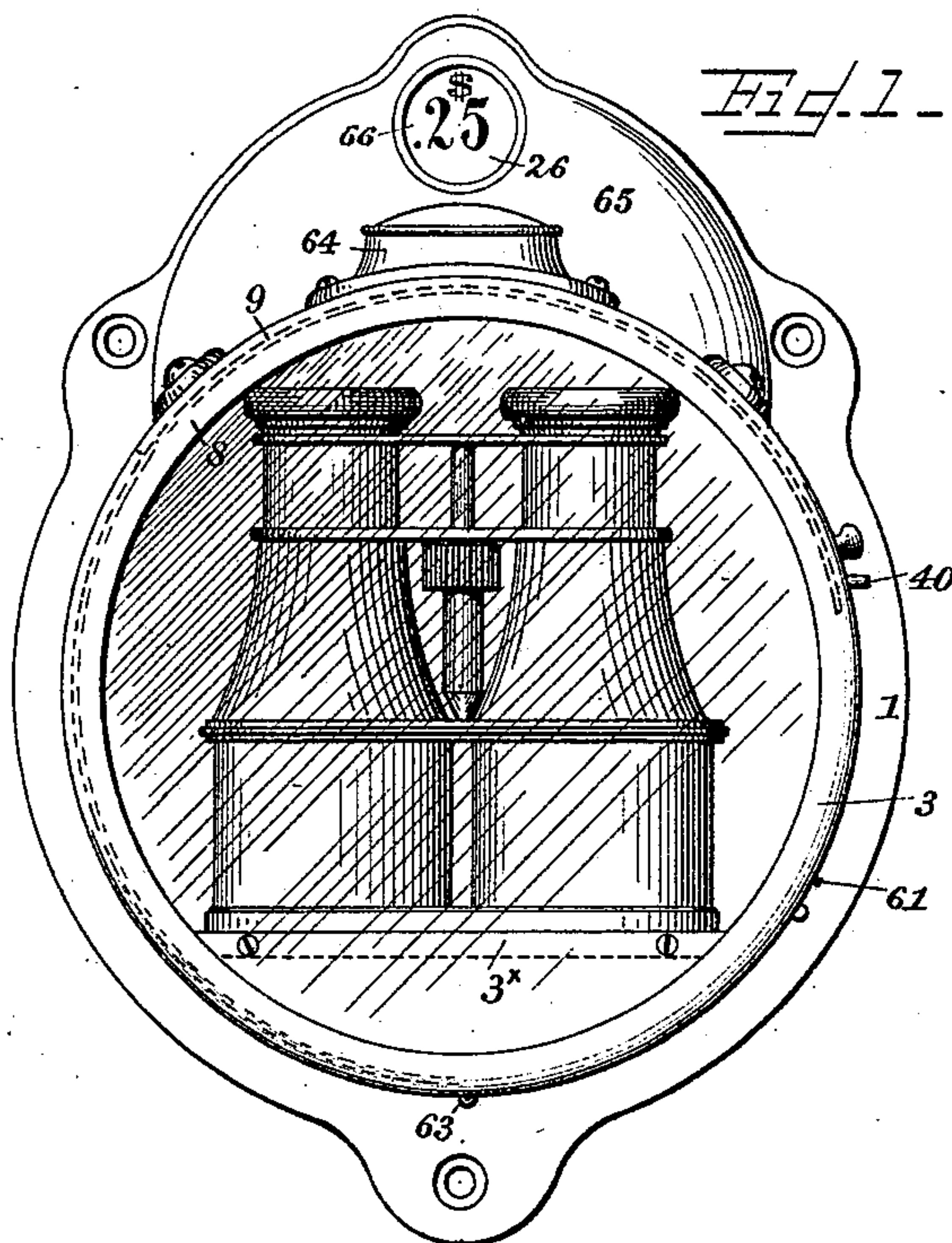
(No Model.)

2 Sheets—Sheet 1.

R. MARTINEZ.
DELIVERY AND REGISTERING LOAN BOX.

No. 516,654.

Patented Mar. 20, 1894.



Witnesses

Charles C. Curand.

S. P. Holthaupter

By his Attorneys,

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Inventor

Rafael Martinez

(No Model.)

2 Sheets—Sheet 2.

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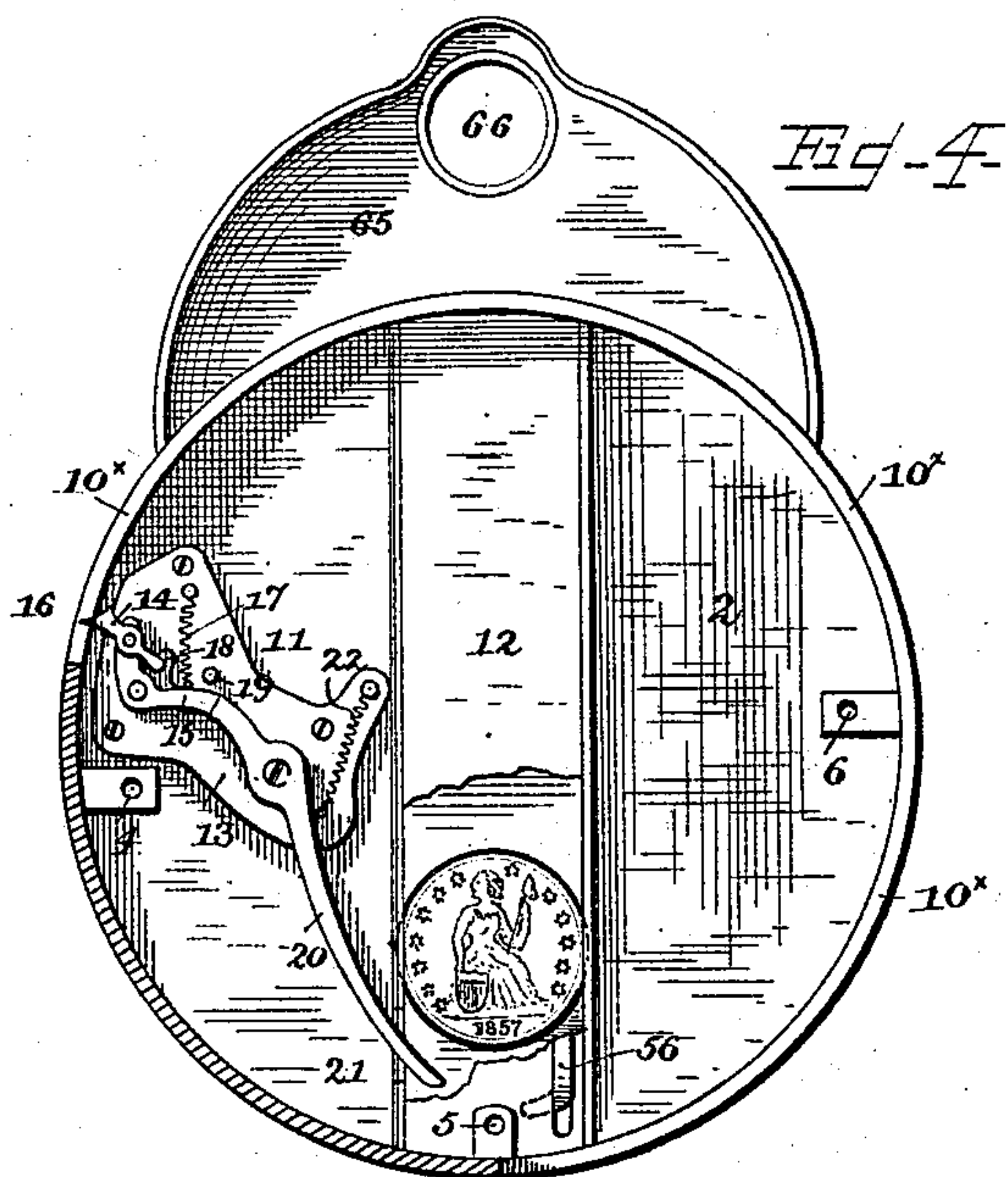


Fig. 5.

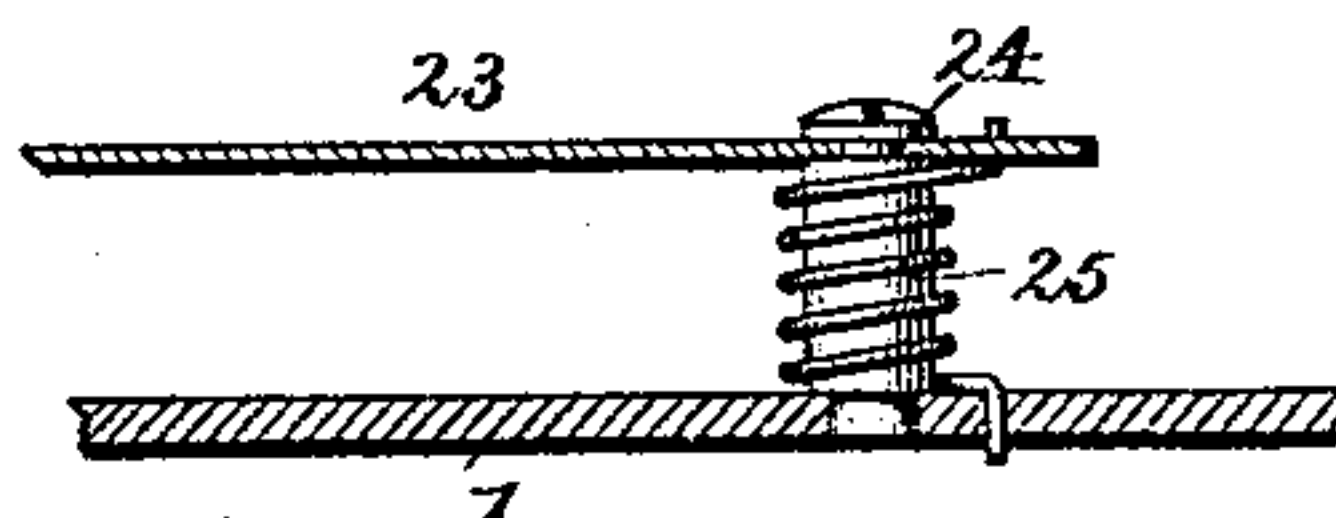


Fig. 6.

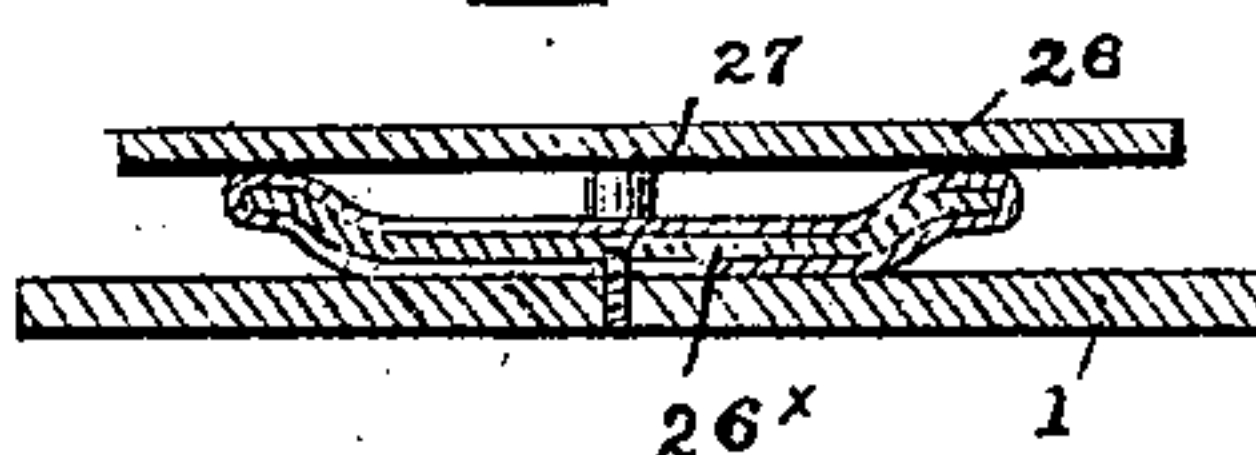
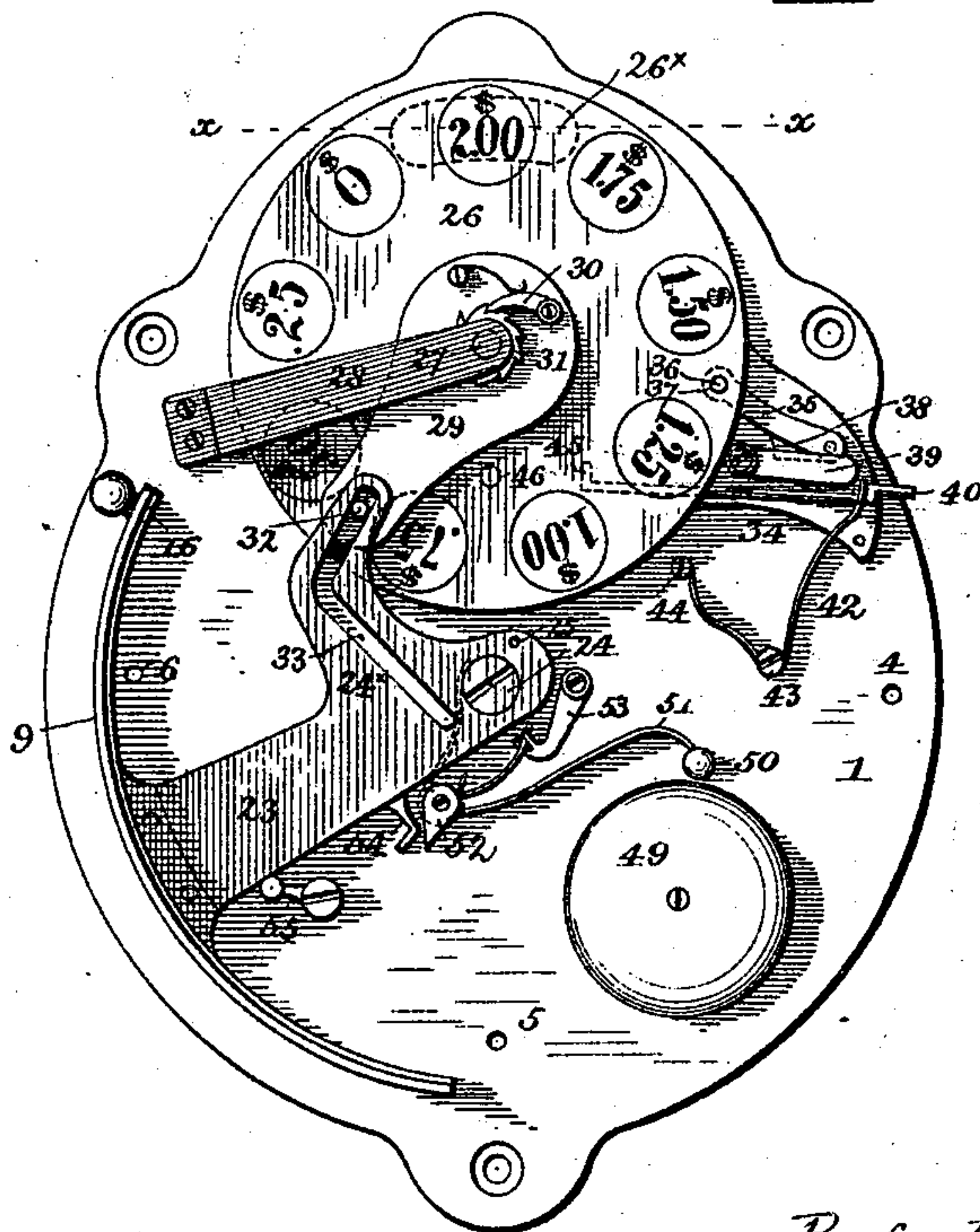


Fig. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

RAFAEL MARTINEZ, OF PUEBLO, COLORADO.

DELIVERY AND REGISTERING LOAN-BOX.

SPECIFICATION forming part of Letters Patent No. 516,654, dated March 20, 1894.

Application filed April 21, 1891. Renewed December 1, 1893. Serial No. 492,545. (No model.)

To all whom it may concern:

Be it known that I, RAFAEL MARTINEZ, a citizen of the United States, residing at Pueblo, in the county of Pueblo and State of Colorado, have invented a new and useful Delivery and Registering Loan-Box, of which the following is a specification.

My invention relates to improvements in coin-controlled apparatus for delivering articles designed for temporary use, when a coin of requisite value has been placed in the box; and it has for its object to provide a simple and automatically operating device especially adapted for holding opera glasses, to be attached to the backs of the seats in places of amusement and the like, and that can be easily and readily obtained by persons desiring to use the same without any manipulation whatever outside of dropping the coin in the machine, and that will register the amount within the machine and indicate the deposit and also the operation of the device; and it consists of a simple combination and arrangement of mechanical elements within a suitable boxing, hereinafter fully described, illustrated in the accompanying drawings, and specifically pointed out in the appended claims.

In the accompanying drawings—Figure 1 is a front elevation of the complete machine, provided with a pair of opera glasses. Fig. 2 is a side elevation of the same. Fig. 3 is a front elevation of the machine with the glasses removed, showing the cover-locking device and slot in dotted lines with the cover half-way drawn and the money drawer cover open. Fig. 4 is a vertical section of the portion of the casing containing the lock and slot with a coin in the slot. Fig. 5 is a plan of the sliding cover and register mechanism. Fig. 6 is a detail of the central bracket carrying pivot. Fig. 7 is a detail sectional view on the line $x-x$ of Fig. 5.

Referring by numerals to the drawings, 1 represents the back plate of my machine, upon which is mounted the mechanism for gaining access to the article within and for registering and indicating the amount within the box. To this rear plate is secured a boxing 2 that is adapted to contain the additional parts for locking the machine and conducting the coin to the operating part, a drum 3

provides the receptacle for holding the opera glasses. The boxing 2 is secured to the rear plate 1 by screws taking into the screw-holes 4, 5 and 6 of each part, while the drum 3 is attached to the boxing 2 by means of the screws 7, the whole device being secured to the seats of furniture to which it may be desired to attach it by any suitable means. The drum 3 is provided on top with an opening 8 that is adapted to be closed by a sliding cover 9 which, when operated upon, gives access to the article within the box, and which slides down on the left side of the device between the drum 3 and shield or guide 10, suitably covered to protect said sliding cover, also sliding through the slotted opening 10*, with which the boxing 2 is provided to accommodate the entire movement of said sliding cover that extends from its operating mechanism on the rear plate over the entire width of the machine. The drum 3 is further provided at its lower edge with a ledge or shelf 3* suitably secured within the same, and upon which the opera glasses are designed to rest.

The cover 9 is locked in its closed position by a lock 11 which is controlled by the coin in its passage through the chute 12, both of which are secured within the boxing 2 that is placed over the rear plate 1, the said cover being slotted to correspond to the opening of the chute 12 and allow a free passage to the coin. Lock 11 is mounted within the boxing 2 upon a plate 13. A dog 14 is pivoted to a lever 15 and is normally held into engagement with the locking notch 16 in sliding cover 9 by means of the springs 17 and 18 connected with said plate, lever, and dog, the motion of the lever 15 being limited in its movement by a stop 19. A money lever 20 is also secured to plate 13, one end of which lever projects through the side opening 21 of the chute 12, while the other end is adapted to bear against lever 15 and throw the dog 14 out of engagement with the sliding cover when the coin of the required weight communicates motion to the opposite end of the money-lever, the said money-lever being held in its normal non-operative position by the spring 22.

The sliding cover 9 is attached to a bracket-arm 23 that swings around the post 24 which is centrally mounted upon the rear

plate 1. A spring 25, wrapped around the post 24 and having one end secured to the said rear plate and the other to the bracket-arm 23, is adapted to automatically slide back cover 9 when released from the dog 14 of lock 11.

Above the bracket-arm post 24 and on plate 1 a registering dial-plate 26 is mounted upon a shaft 27 that is suitably placed and held in position by a bridge 28 spanning the dial-plate and securely connected to the rear plate. This dial-plate is provided with any required figures or numbers of figures arranged according to the denomination that is necessary to operate the machine, and is designed to show the amount of money in the box after each deposit and at the same time indicate the present deposit, as the difference between the figures before and after deposit is the amount of deposit. A leather pad spring 26* is secured to the rear plate 1 behind the dial-plate at its upper edge and forms a tension-cushion to equalize the revolution of the plate.

Loosely mounted upon the shaft 27 is a crank-arm 29 that is provided on its upper face with a spring-actuated pawl 30 that engages the teeth of a ratchet wheel 31, which is rigidly mounted upon the said dial-plate. From the lower end of said crank-arm a projecting pin 32 works in a right-angular slot 33 formed in said bracket-arm 23 which is further provided with a lateral extension 24* to allow for the construction of said slot. When the sliding cover 9 is released from its lock it can be readily seen that the crank-arm 29 through the motion of travel of the pin in the slot will communicate motion to the ratchet wheel 31 that will cause the requisite revolution of the dial-plate, the construction of the right-angular slot 33 in the bracket-arm 23 confining the operation of the said crank-arm within a limited space and giving the same but a slight oscillatory movement. The dial-plate 26, after it has registered the last amount that is deposited, becomes locked and will not operate until the same is again reset.

The dial locking device 34 is situated to the right side of the dial and consists of a leaf-spring 35 provided at its free end with a pin 36 that normally bears against the rear face of the dial-plate while the same is revolving and slips into a hole 37 in said plate and locks the same when the last amount has been registered. Spring 35 is further provided with a slight offset 38 directly over which, and designed to operate upon is a second flat spring 39. Below said spring 39 is a sliding pintle 40 normally held out through the key-hole 41 in the boxing 2 by spring 42 which is secured to the rear plate by the screws 43 and 44. Said pintle is provided at its innermost end with an abutting portion 45 that is adapted to bear against a pin 46 projecting inwardly from said dial-plate, and

turns the same when the spring catch 35 is released from the plate.

To set the dial when it is already locked, an ordinary key 47, having a supplemental guide-plug 48, is inserted in the key-hole 41 on the pintle 40. The key is turned to the right to bear against leaf spring 39 which presses upon the offset on spring 35 and throws the pin 36 on the end of said spring 35 out of the hole in the dial-plate. Still holding the key in the same position, the sliding pintle is now pushed in until its abutting end bears against the inwardly projecting pin on the rear face of the dial and turns the same to the zero figure on the dial, when the key is withdrawn and all the parts of the locking device 34 assume their original positions. The sliding cover 9, when it falls, besides registering the amount deposited and the total deposits, indicates the operation of the machine and the deposit of the money by causing a bell 49 to sound an alarm. The striker 50 of said bell is secured to a spring 51 that connects with a pivoted dog 52, and has its free end resting in a bifurcated arm 53. Pivoted dog 52 is operated upon by the hook 54 projecting out from the bracket-arm 23 and strikes against the same in the descent of the sliding cover and rings the bell 49. The descent of the sliding cover 9 is limited by the stop 55 secured to the rear plate 1 upon which the bracket arm 23 rests when the cover is down.

The lower portion of the chute 12 is provided with an outwardly projecting and slightly curved spring 56 that pushes the money after operating upon money-lever 20 into the money-receptacle 57 formed between the bottom of the shelf 3* and the bottom of drum 3. A part 58 of the sliding cover shield 10, below the said shelf, forms one bottom side of the money receptacle and is provided at its end with a downwardly-pressing spring 59 that is designed to press apart the hinged cover 60 when released from the latch lock 61 through the key-hole 62 in the side of drum 3, said cover, which is hinged to the drum at 63, completing the other part of the said money receptacle 57. The upper termination of the chute 12 is covered by a slot-cap 64 to place the coin within the device and is secured to the bottom 2, while the exposed part of the dial plate is provided with a covering-cap 65, also secured to said boxing inclosing the same, said cap having a glass-covered opening through which the amount registered is indicated.

It is now thought that the operation of my machine is quite apparent. The dial-plate having been set free to revolve from the lock 34, the money is placed in the slot-box, travels down the same, and strikes the money-lever 20 and releases the sliding cover from the lock 11. The spring-actuated sliding cover immediately falls down and gives access to the interior of the machine, at the same time causing the dial-plate to revolve and register

the deposit and also sound an indicating alarm, the money after causing the operation just described being thrown into a money-receptacle from which it may be easily removed through the hinged cover 60.

The machine described is made of any suitable metals that would give the same a neat and finished appearance.

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

1. In an automatic coin controlled apparatus, a circular article receptacle provided with a top opening, a sliding cover inclosing said opening, a spring actuated bracket arm carrying said cover, a cover guard or shield concentric with the shell of the receptacle and forming an inclosed way within which said cover slides, a chute, a cover lock operated by the coin and a registering device operated by the movement of said cover bracket arm, substantially as set forth.

2. In an automatic coin-controlled apparatus, an article receptacle provided with an opening at the top, spring-actuated sliding cover inclosing said opening, a coin chute, and a cover lock consisting of a money-lever one end of which projects through said chute and is operated by the coin, and a locking dog mounted upon an independent pivoted lever held normally in a locked position by springs and adapted to be thrown out of position by said money-lever, substantially as set forth.

3. In an automatic coin-controlled apparatus, an article receptacle provided at the top with an opening, a spring-actuated sliding cover inclosing said opening, a chute, a cover lock controlled by the coin, and a registering device and an indicating alarm adapted to be operated by the movement of said sliding cover, substantially as set forth.

4. An automatic coin-controlled apparatus, having an article receptacle provided with an opening at the top, a sliding cover inclosing said opening, a spring-actuated bracket-arm secured to said sliding cover and provided with a slot, a registering dial-plate mounted upon a shaft, provided with a ratchet-wheel, and a crank-arm attached to said shaft and adapted to work in the slot in said bracket-arm and revolve said dial-plate, substantially as described.

5. In an automatic coin-controlled apparatus, an article receptacle provided with an opening at the top, a sliding cover inclosing said opening, a spring-actuated bracket-arm secured to a central post and connected to said sliding cover and provided with a right-angular slot, a chute, a cover lock automatically controlled by the coin, a registering dial-plate mounted upon a shaft provided with a ratchet-wheel, and a crank-arm loosely mounted on said shaft and provided with a spring-actuated pawl engaging said ratchet-wheel and a pin at its free end that is adapted to enter the right-angular slot of said

bracket-arm and communicate motion to said dial-plate, substantially as set forth.

6. In an automatic coin-controlled apparatus, an article receptacle provided with an opening at the top, a sliding cover inclosing said opening, a spring-actuated bracket-arm upon which said sliding cover is secured, the same being provided with a right-angular slot and a projecting hook, a bracket-arm stop, a chute, a cover lock automatically controlled by the coin, a registering dial-plate mounted upon a shaft provided with a pawl-and-ratchet device, and a loosely mounted crank-arm working in said right-angular slot and revolving the dial-plate, and an alarm-bell operated by said projecting hook on said bracket arm communicating motion to a pivoted spring-actuated dog carrying the clapper-spring, substantially as set forth.

7. In an automatic coin-controlled apparatus, an article receptacle provided with an opening at the top, and a ledge or shelf upon which the article is designed to rest, beneath which is formed a money-space into which the coin is ejected, a spring-actuated sliding cover inclosing said top, a chute provided at its lower end with an outwardly projecting spring to throw the money into said money-space, and a hinged spring-cover inclosing said money-space, substantially as set forth.

8. In an automatic coin-controlled apparatus, an article receptacle provided with an opening at the top, and a ledge or shelf upon which the article is designed to rest, and beneath which is formed a money-space into which the coin is ejected, a spring-actuated sliding cover inclosing said top opening, a cover guard or shield between which and the outer casing said cover is adapted to slide, the lower part of said guide below said ledge forming a portion of said money-space and is provided with a downwardly pressing spring, a chute provided at its lower end with an outwardly projecting spring to throw the money into said money-space, and a hinged cover normally pressed open by said spring on the end of said cover shield, and incloses said money-space, substantially as set forth.

9. In an automatic coin-controlled apparatus, an article receptacle provided with a top opening, a spring-actuated sliding cover inclosing said opening, a coin-controlled lock securing said cover in its closed position, a registering dial-plate operated by said sliding cover, an alarm also operated by said cover, and a spring lock designed to lock said registering dial-plate after the registering of the last amount and hold the apparatus locked until reset, substantially as set forth.

10. In an automatic coin-controlled apparatus, an article receptacle provided with a top opening, a spring-actuated sliding cover inclosing said opening, a coin-controlled lock securing said cover in its closed position, a registering dial-plate operated by said sliding cover and provided with a locking hole and inwardly projecting pin, an alarm also oper-

ated by said cover, a dial lock consisting of
an outwardly pressing spring provided at its
free end with a pin adapted to engage the
locking hole of said dial-plate and a side lug,
5 a leaf-spring bearing directly over said pro-
jecting lug, and a spring-actuated sliding pin-
tle situated beneath said leaf-spring and pro-
vided with an abutting end adapted to bear
against said inwardly projecting pin on said
10 dial-plate, and a key having a supplemental

guide plug adapted to be placed on said pin-
tle and operate said lock and dial, substan-
tially as described.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in 15
presence of two witnesses.

RAFAEL MARTINEZ.

Witnesses:

JOHN MURPHY,
J. H. McMINN.