

(No Model.)

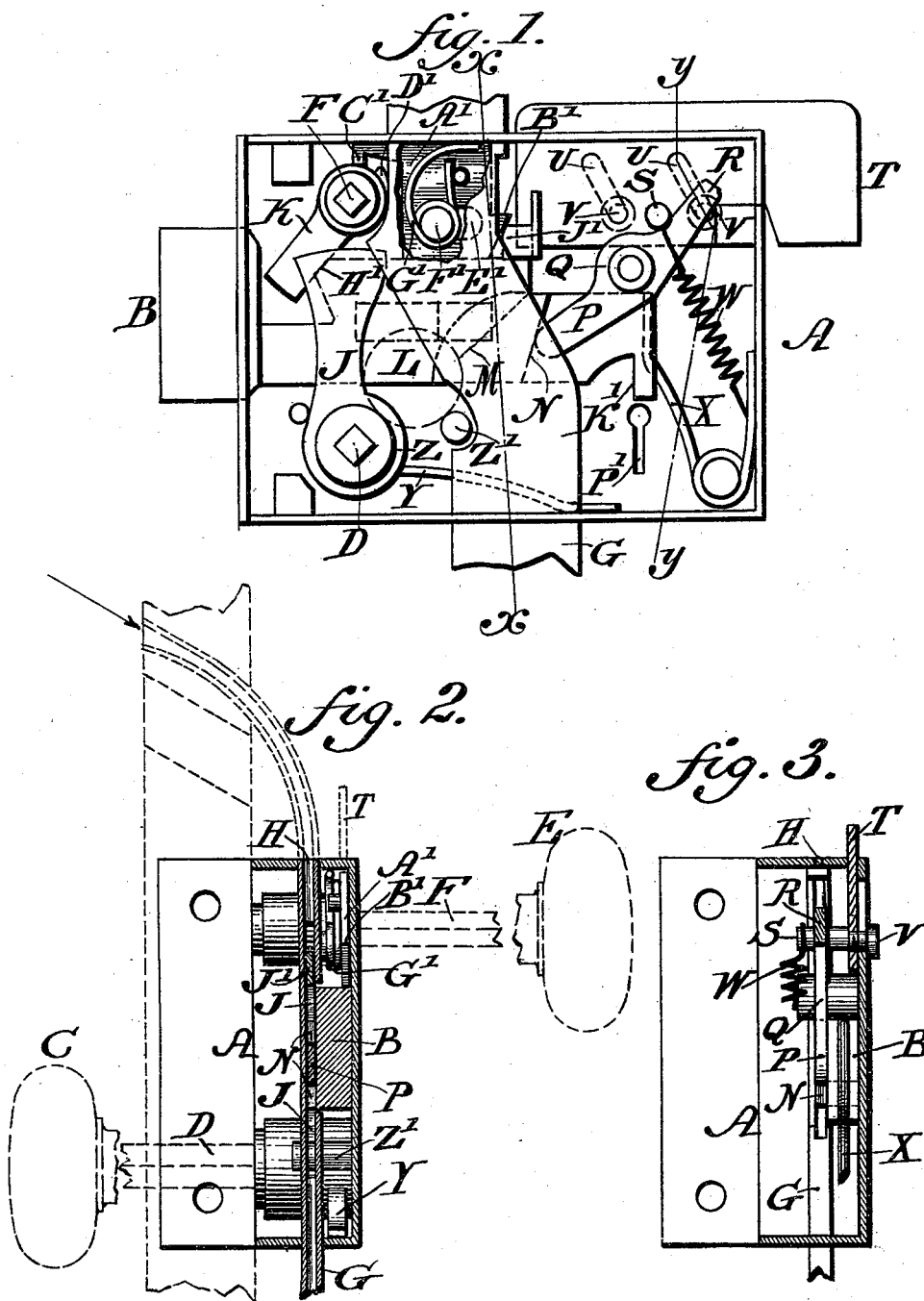
2 Sheets—Sheet 1.

W. EGLIN.

COIN CONTROLLED LOCK.

No. 493,209.

Patented Mar. 7, 1893.



WITNESSES:

L. Douville,
W. C. Wisenheimer,

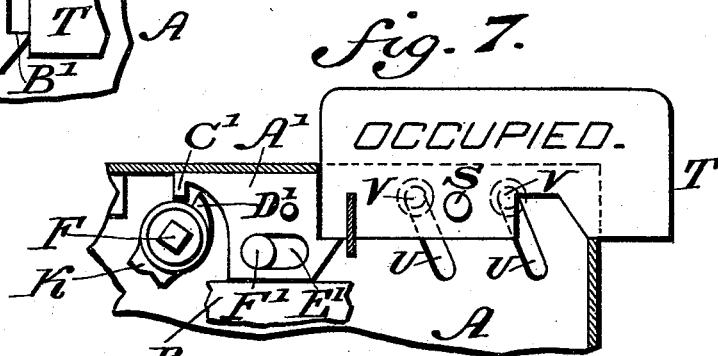
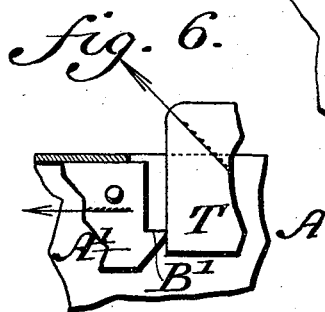
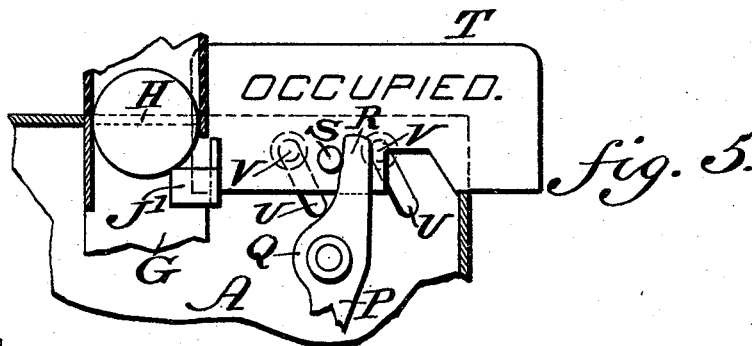
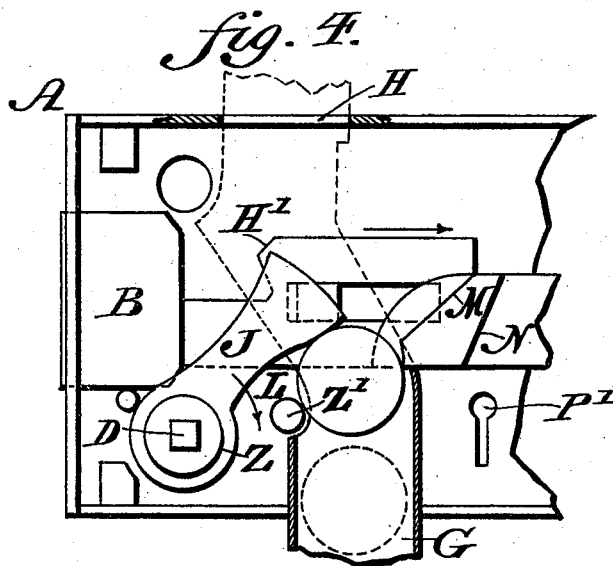
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COIN CONTROLLED LOCK.

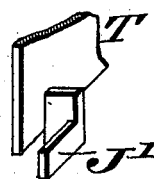
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UNITED STATES PATENT OFFICE.

WILLIAM EGLIN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JOHN L. HILL, OF SAME PLACE.

COIN-CONTROLLED LOCK.

SPECIFICATION forming part of Letters Patent No. 493,209, dated March 7, 1893.

Application filed September 24, 1892. Serial No. 446,759. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM EGLIN, a subject of the Queen of Great Britain, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Coin-Controlled Locks, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a lock which requires the insertion of a coin in order to open the same, so that a room or apartment to the door of which the lock is attached may be entered, said coin being adapted to pay for a service in said room, such as the use of a water closet therein, toilet paper &c.

The invention embodies the construction of the lock whereby the bolt is operated by the coin which has vertical upper and lower ends, and an intermediate inclined portion, and is advanced thereagainst by the operation of the exterior knob.

It also embodies the employment of means for indicating that the room is occupied, and further of means for prevention of the descent of a coin, should one be inserted when the room is occupied, a party having failed to notice the indicator.

It also embodies means for operating the bolt from within the room so that the occupant may open the door, and the indicator is restored to its normal or inoperative position.

Figure 1 represents a view of the interior of a lock embodying my invention. Fig. 2 represents a section on line *x, x*, Fig. 1. Fig. 3 represents a section on line *y, y*, Fig. 1. Figs. 4, 5, 6 and 7 represent views of parts thereof, showing different positions of parts. Fig. 8 represents a perspective view of a finger which is employed to close the chute of the slot when the room is occupied.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates the casing of a lock, the same having the bolt B, and the knob or handle C on the exterior thereof, the spindle D which carries said knob, the interior knob or handle E, the spindle F which carries the said knob E, and the chute G which is open at top and bottom, the open top forming the slot H to receive a coin.

Secured to the spindle D and rising therefrom is the dog or arm J, and secured to the spindle F and depending therefrom is the dog or arm K.

In the side of the bolt B is a recess L, one wall M of which is oblique or inclined, and which when the bolt B is in normal position, is within the chute G, as will be seen in Fig. 1, it being also noticed in said figure that the space between the base of said incline and the side of the dog J is about equal to the diameter of the coin introduced into the chute. Near the inner end of the bolt B on the side thereof, is a shoulder N, which engages with one limb P of a lever Q, which is mounted on the casing A, and has its other limb R in engagement with a pin or stud S on a rising and falling indicator or plate T, which is guided in the casing A, and provided with pins V, which enter and are adapted to play in oblique slots in the lock casing.

W designates a spring which is secured to the casing A and the stud S for returning the plate T, and consequently the lever Q to its normal position.

X designates a spring which bears against the bolt B for returning the latter to its normal position, and Y designates a spring which bears against the dog J.

On the dog J around the spindle or axis D thereof, is a collar Z, and adjacent thereto and below the vertical upper portion and at the lower end of the inclined portion of the chute is a stud Z', which parts are located below the space between the dog J and incline M, and form a temporary support for the coin.

Within the casing, forward of the plate T is a sliding dog A' whose side next to said plate has a shoulder B' for engagement of the lower corner of the said plate, as shown in Fig. 7. The side of the dog opposite to the shoulder B' has a hook C' which is adapted to be engaged by the nose D' on the hub of the dog K, said dog A' having a slot E' to receive the guide pin F' which is secured to the walls of the casing A, said pin sustaining the spring G' which bears against the dog A' for returning the same and consequently the dog K and knob E, each to its normal position.

On the bolt B near the front thereof, is a shoulder H', with which engages the dog K, whereby the bolt B may be thrown back by the proper operation of said dog K.

5 Projecting forwardly from the plate T, is a finger J' which when the plate T is raised, is carried into the chute G, see Fig. 5, but whose normal position is outside of said chute, as will be seen in Fig. 1.

10 The operation is as follows, the parts being in position shown in Fig. 1. A coin of a proper denomination is deposited in the slot H, and enters the chute G, whereby it is directed to the incline M, and it rolls down the same into the space L, where it is temporarily arrested by the collar Z and stud Z'. The knob C is now turned, whereby the dog J is pressed against the coin, and the latter is pressed against the side of the bolt at the base of the incline M, by which action motion is imparted to the bolt B, which being shot back, permits the door to open. When the coin fully enters the chute G, it having cleared the collar Z and stud Z', it is no longer controlled and so drops into the chute and is directed by the same to a box or place of collection, see Fig. 4. As the bolt moves it operates the lever Q, whereby as the stud S is pressed inwardly by the limb R thereof, the plate T is raised and indicates that the room is occupied. As the plate rises, it rides on the end of the dog A', see Fig. 6, until it clears said end, when said dog under the action of the spring G' is advanced in the present case to the right, and the shoulder B' engages the plate T, and holds the latter in its elevated position. The finger J' which has been carried by the plate is projected into the chute G, so as to form a barrier to the descent of a coin that may be improperly introduced into the chute, it being noticed that the position of the plate T indicates that the room is occupied, and it is useless to deposit the coin for the purpose of opening the door, as the latter is locked by the bolt which has meanwhile returned to its normal position. When the occupant of the room desires to leave the same, he turns the inner knob E, whereby the dog K presses against the shoulder H' of the bolt B, and withdraws the latter, so that the door is opened. When the knob is let go, the bolt returns to its normal position, and the door may be pushed closed or shut from the outside. As the knob E is operated the nose D' on the hub of the spindle F thereof is pressed against the dog A', thus moving the latter in the present case to the left, whereby the shoulder B' clears the angle or corner of the plate T, when the latter is no longer controlled by said dog A', but as it is now controlled by the spring W, it is lowered and returned to its normal position, by which operation the finger J' emerges from the chute G or sufficiently therefrom, and thus presents no obstruction to the subsequent insertion of a coin and passage of the same through the

chute for the purpose of moving the bolt when the opening of the door to permit entrance into the room or apartment is desired.

It will be understood that the coin is adapted to pay for a service in the room or apartment, such as the use of a water closet therein, toilet paper &c.

The attendant of the room or owner of the business involved may operate the bolt B by means of a key which may properly reach a shoulder on the bolt, such as K' through the openings or hole P' in the casing.

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

1. A coin-controlled lock having a casing, a bolt with a recess, a chute having an inclined portion, a knob with a lever adapted to operate, in connection with a coin in said bolt recess, said bolt, a collar on the spindle of said knob and a stop or pin secured to the casing, said parts being combined substantially as described.

2. A coin-controlled lock having a casing, a bolt with a recess in one side, a chute having an intermediate inclined portion, a knob with lever for operating, in connection with a coin, said bolt, a collar on the spindle of said knob, a stop on said casing, and a second knob with a lever adapted to contact with and operate said bolt, said parts being combined substantially as described.

3. In a coin-controlled lock, a casing, a bolt with a recess, a chute having an inclined portion, a knob with a lever for operating, in connection with a coin, said bolt, a lever operated by contact with said bolt, an indicator movable in guides on the casing, and a dog for holding the said indicator in position, said parts being combined substantially as described.

4. In a coin-controlled lock, a casing, a bolt, a lever operated by the contact and movement of said bolt, an indicator adapted to be raised by the movement of said lever, a sliding dog with a shoulder for sustaining said indicator, and a spindle with a hub having a nose thereon for actuating said dog, said parts being combined substantially as described.

5. In a coin-controlled lock, a casing, a sliding bolt, a lever contacted with and controlled by the movement of said bolt, an indicator having a pin contacted with by an arm of said lever, pins secured to the casing and fitting in oblique slots in the indicator for guiding the latter in its movements, and a spring-controlled dog having a shoulder to sustain said indicator, said parts being combined substantially as described.

6. In a coin-controlled lock, a casing, a bolt with a recess therein, mechanism, in connection with a coin, for operating said bolt and discharging an inserted coin, an indicator, mechanism intermediate of said bolt and indicator for operating the latter, a sliding dog for sustaining said indicator, and means for

operating said dog so as to release said indicator, said parts being combined substantially as described.

7. In a coin-controlled lock, a casing, a chute
5 in said casing, a sliding bolt with a shoulder thereon, a lever with an arm engaged by said shoulder, an indicator plate having oblique slots therein, a pin on said plate adapted to be engaged by an arm on said lever, a finger
10 on said plate adapted to enter said chute, and a sliding dog with a shoulder for sustaining said indicator, said parts being combined substantially as described.

8. A coin-controlled lock having an indicating plate, a dog for holding the same in operative position, a chute for directing a coin into the lock so as to engage the bolt thereof, and a finger on said plate adapted to be projected into said chute to prevent the improper descent of a subsequently introduced coin, substantially as described.

9. A coin-controlled lock having a bolt, a spindle, and means on said spindle for operating the bolt by the action of a coin directed
25 into the casing and adapted to be pressed against the bolt, an indicating plate adapted to be moved by the action of said bolt, means for holding said plate in operative position, and a supplemental knob spindle for releasing said plate from within the room to which
30 the lock is attached, whereby said plate returns to its normal position, the parts named being combined substantially as described.

10. A coin-controlled lock having an indicating plate substantially as and for the pur-

pose set forth, a movable dog for holding said plate in operative position and a supplemental knob spindle adapted to engage said dog and release the same from the plate, whereby the latter is permitted to return to its normal
40 position, as set forth.

11. A coin-controlled lock having a bolt with a recess in one side thereof, a chute having vertical upper and lower ends, and an inclined intermediate portion, through which
45 latter said bolt operates, a collar and a pin below said vertical upper end for sustaining the inserted coin in said bolt recess, and a lever for operating said bolt in connection with said coin for discharging the latter, said parts
50 being combined substantially as described.

12. A coin-controlled lock having a bolt, a chute for directing a coin to said bolt, an arm on the knob of the lock between which and a part of the bolt the coin is adapted to be
55 seated, and a shoulder on the bolt adapted to be engaged by a key, said parts being combined substantially as described.

13. A coin-controlled lock having a bolt adapted to be operated by knobs or handles
60 on opposite sides of the casing, a chute for directing coin to the bolt, means on one of the knobs for pressing the coin against the bolt, and a shoulder on the bolt for the engagement of a key, said parts being combined substantially as described.

WILLIAM EGLIN.

Witnesses:

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WM. C. WIEDERSHEIM.