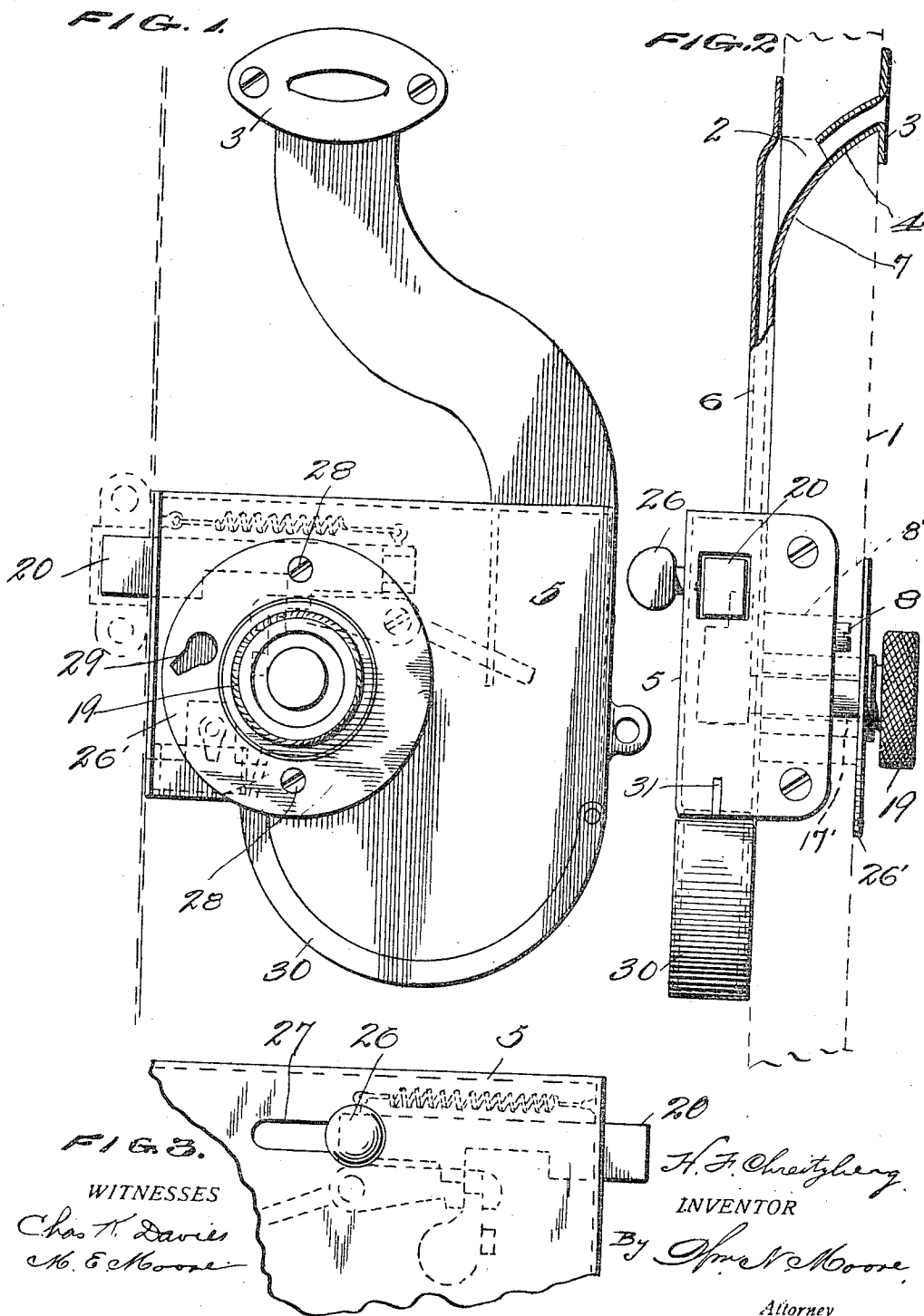


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 COIN OPERATED LOCK.
 APPLICATION FILED JUNE 17, 1909.

957,743.

Patented May 10, 1910.

2 SHEETS—SHEET 1.



WITNESSES
 Chas. H. Davies
 M. E. Moore

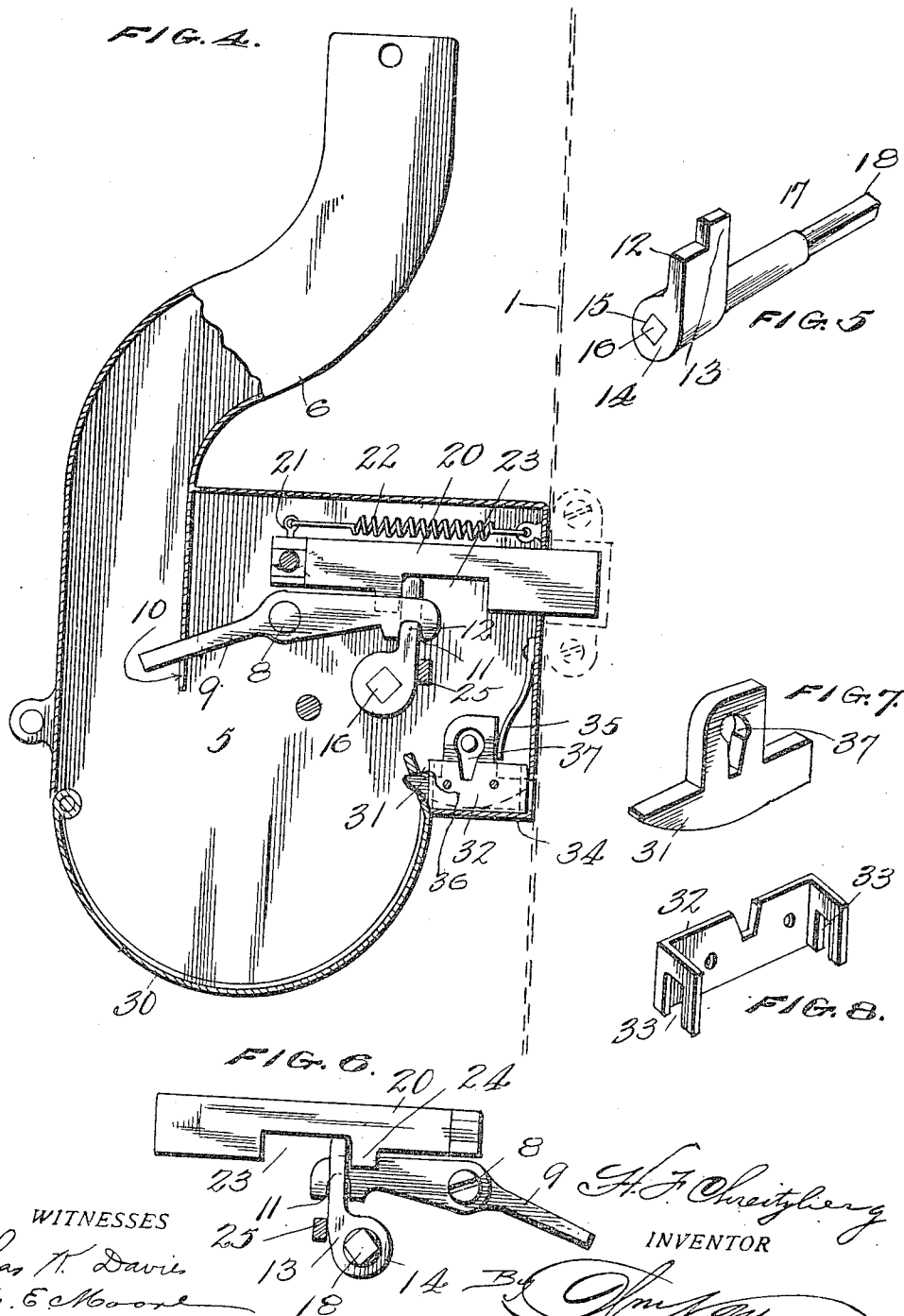
H. F. Chritzberg.
 INVENTOR
 By *Spur Moore*
 Attorney

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UNITED STATES PATENT OFFICE.

HILLIARD FRANCIS CHREITZBERG, OF MONROE, NORTH CAROLINA.

COIN-OPERATED LOCK.

957,743.

Specification of Letters Patent.

Patented May 10, 1910.

Application filed June 17, 1909. Serial No. 502,714.

To all whom it may concern:

Be it known that I, HILLIARD FRANCIS CHREITZBERG, a citizen of the United States, residing at Monroe, in the county of Union and State of North Carolina, have invented certain new and useful Improvements in Coin-Operated Locks, of which the following is a specification.

My invention relates to improvements in coin operated locks, and the leading object of my invention is the provision of a lock of this character which can be readily applied to a door and will prevent the opening of the same from the outside without the depositing of a coin therein.

Another object of my invention is the provision of a coin controlled lock which while it cannot be operated from the outside without the depositing of a coin can be readily unlocked from the other side.

A further object of my invention is the provision of a lock of this character which can be operated by coins of various denominations.

With these and other hereinafter disclosed objects in mind, my invention consists in a coin controlled lock embodying novel features of construction and combination and arrangement of parts for service substantially as described and as illustrated in the accompanying drawings which show one of the embodiments of my invention.

Figure 1, represents a front elevation of the lock as applied to a door, the door and casing being shown in dotted lines. Fig. 2, represents a side elevation of the same, part of the coin chute being shown in section. Fig. 3, represents an enlarged detailed fragmentary view of the releasing mechanism on the back of the lock, the interior working parts being shown in dotted lines. Fig. 4, represents a view of the rear of the device applied to a door with the back of the casing removed. Fig. 5, represents a perspective view of the unlocking key or lever. Fig. 6, represents a front view of the bolt and operating mechanism therefor. Fig. 7, represents a perspective view of the coin box locking mechanism, and, Fig. 8, represents a perspective view of the retaining plate therefor.

In the drawings: the numeral 1, designates a door, having a slot 2 formed therein to permit of the passage of a coin, and secured over the opening in the door and

having a slot to correspond therewith is the plate 3, said plate having formed on the back thereof the short chute 4 into which the coin inserted in the slot passes. Secured to the back of the door is my coin operated lock having the casing 5 terminating at the upper side in the coin chute 6, said chute having a flaring lip 7 which extends into the slot in the door and forms a flush joint with the under side of the chute 4, thus providing a smooth easy passage from the slot into the lock proper. Pivotaly secured by the stem 8, mounted in the sleeve 8' inserted in the casing 1, is the lever 9, one end of said lever projecting through the slot 10 in the wall of the coin chute 6 into the chute, while the other end of the lever has formed therein the notch or recess 11 which engages and locks firmly in position the shouldered portion 12 of the projecting lug 13 on the cam plate 14. Said cam plate 14 has formed in its center the squared opening 15 in which fits and is secured the inwardly projecting squared end 16 of the rod 17, the intermediate portion of said rod being round and journaled in the sleeve or bearing 17' formed on the casing 5 and inserted in the door, while its other end 18 is also squared and has secured thereon the knurled knob 19 which serves to turn the rod and attached plate. Slidably secured to the front of the casing 5 above said cam plate is the bolt 20, having the projection 21 on the upper side of its inner end, the coiled spring 22 having one end secured to said projection and the other to the end of the casing to normally force the other end of the bolt outward through the customary slot in the end of the casing, the under side of the bolt being cut away to form the recess 23 terminating at the rear in the abutment shoulder 24, and the outward movement of the bolt being limited by the engagement of said shoulder with the lug 13, said lug being prevented from forward movement by the engagement of the notch in the lever 9 with its shoulder 12, and also by the inwardly projecting stop lug 25 formed on the casing.

To permit of the ready opening of the door from the inside, I provide the knob 26 having its shank projecting through and working in the slot 27 in the back of the casing, its end being secured in the bolt 20 as is shown in Figs. 3 and 4. After the door has been thus opened, in closing it is

merely necessary to push the door inward, the inner face of the bolt being beveled to slide inward upon contact with the casing, the lug 13 projecting into the recess 23 and therefore not interfering with the inward movement of the bolt.

To operate the lock from the outside, it is first necessary to insert a coin in the chute opening 2, said coin falling through the chute 6 and contacting with the end of the lever 9 and forcing it downward causing the other end of the lever to fly up and release the lug 13, when by the turning of the knob 19 the lug 13 may be revolved and by pressing against the shoulder 24 of the bolt force the bolt back and unlock the door.

In the event of the failure of the lever 9 to release the lug 13, through the stopping up of the coin chute, or the action of the lever being prevented by undue filling of the coin box, I remove the retaining screws 28 and turn the escutcheon plate until the key-hole 29 corresponds with the opening in the door in which the sleeve 8' is inserted, when a screw driver or like tool may be passed through said opening to engage the slot in the end of the stem 8 and turned, thus throwing the lever out of engagement with and releasing the lug 13, it being understood that the key-hole opening is normally in position to permit of the insertion of a key into the lock to unlock and open the coin box. The coins from the coin chute drop into the bottom of the casing, and said bottom 30 is pivoted or hinged to the casing proper at one end and the lower edge of the casing terminates in a flange of slightly reduced size over which said lower portion 30 fits and makes a snug joint with. To secure the other end of the bottom 30 in place, I employ my improved lock, consisting of the latch piece 31 and the casing 32 therefor having the slots 33 in which the ends of the latch slide, said latch piece and casing therefor being secured within the main casing and the latch resting on a shoulder portion 34 formed integral with the side of the casing. Secured to the side of the casing 5 is the flat spring 35 which bears

against the latch member and presses it inward. The inner end of said latch member has its under side beveled to be more readily forced back to allow of the snapping shut of the bottom of the coin box while its upper face is plain and engages and retains in place the end of the slot 36 in the casing and thus the entire bottom of the box. Said latch is also provided with the opening 37 in which a key may be inserted to unlock the device.

From the forgoing description taken in connection with the drawings it will be seen that I provide a strong, simple and durable coin controlled lock which is adapted for use under a variety of conditions, which cannot readily be gotten out of order and which will in all ways prove practical and efficient for the desired purpose.

I claim:

In combination with a door, a pair of sleeves mounted therein, shafts mounted in the sleeves, one of said shafts having a groove formed in its outer end and the outer end of the other shaft being of angular conformation to receive a knob, a bolt slidably secured to the inner side of the door above said shafts, an arm on one of the shafts for operating said bolt, a lever mounted on the other shaft and provided with a recess adapted to engage the arm and hold the same inoperative, a coin chute passing through the door and so disposed as to cause a coin deposited therein to contact with an extension of the lever to cause the latter to release the arm, means for securely retaining the coins thus deposited, and means on the door for concealing the end of the lever shaft and thus preventing it under ordinary conditions from being turned by the insertion of means in the groove thereof to release the arm and thus avoid the payment of a coin.

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

HILLIARD FRANCIS CHREITZBERG.

Witnesses:

J. E. STEWART,
S. S. GRIFFIN.