

I. LAPIDUS.

LOCK.

APPLICATION FILED AUG. 21, 1912.

Patented Oct. 21, 1913.

2 SHEETS—SHEET 1.

1,076,587.

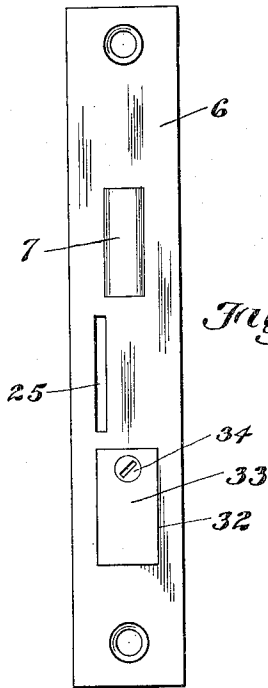


Fig. 1.

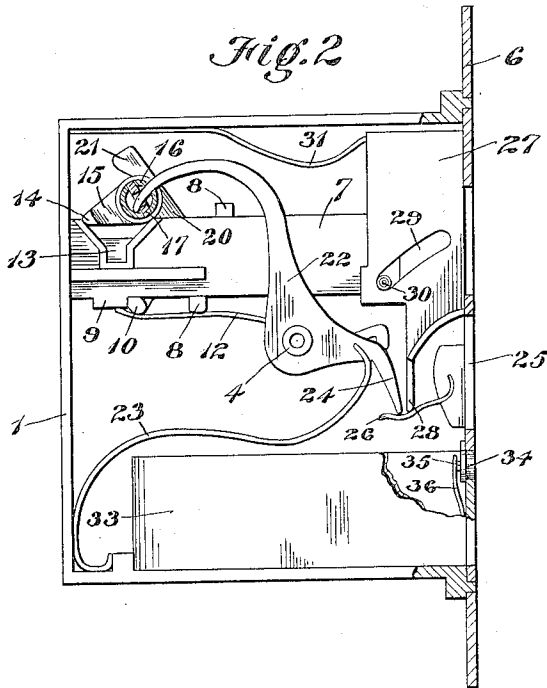


Fig. 2.

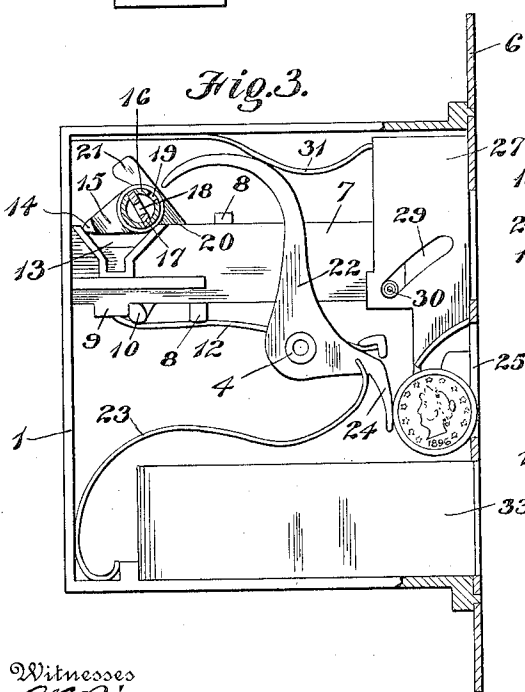


Fig. 3.

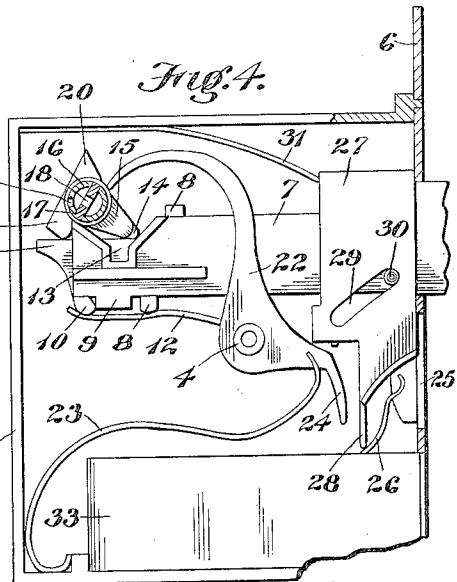


Fig. 4.

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2 SHEETS—SHEET 2.

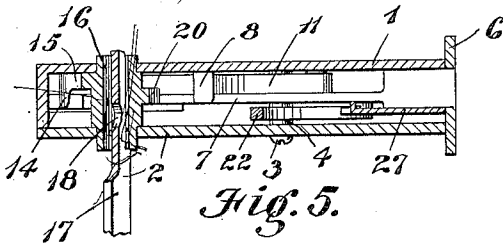


Fig. 5.

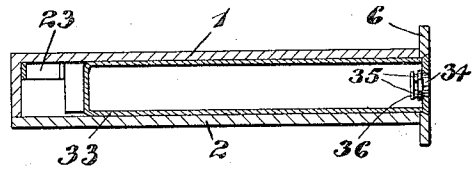


Fig. 6.

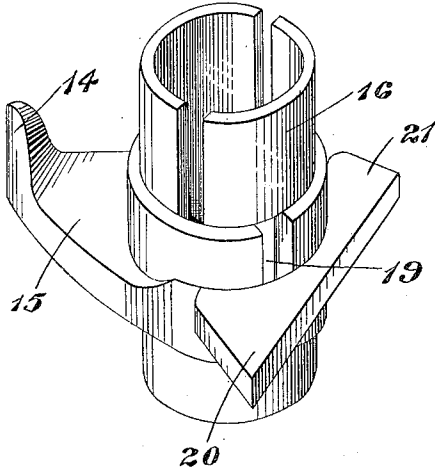


Fig. 7.

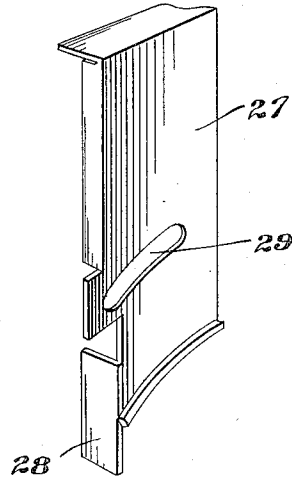


Fig. 8.

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UNITED STATES PATENT OFFICE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ISAAC LAPIDUS, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Locks, of which the following is a specification.

This invention relates to locks and more particularly to coin controlled locks for use in connection with patent coat boxes, lockers, and other public compartments used for storing articles of personal wear, baggage, or the like.

The principal object of the invention is to provide a device of this character wherein the bolt operating key is secured in the lock against removal until a coin of the proper denomination is deposited in the lock, at which time, the key holding means will be thrown to inoperative position and the key may be operated to throw the bolt and also may be removed and retained by the party depositing the coin or check.

A further object of the invention is the provision of a coin controlled lock wherein the coin is inserted directly into the lock casing instead of in the slot leading to the casing or external mechanism for controlling the bolt, whereby when the door is actually in locked position, the coin can not be inserted or the lock operated in any manner except by the party holding the key.

Another object of the invention is the provision of a device of this character having means for locking the key cylinder and the key within the lock casing, together with coin controlled means for releasing the key locking means, which key locking means is placed in operative position to again lock the key and key cylinder when the bolt is projected so that when the bolt is retracted to unlock the locker, box, or other device to which the lock is attached, the key and key cylinder locking means will automatically operate to prevent further operation of the device until another coin is inserted.

Further objects of this invention will appear as the following specific description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a front elevation. Fig. 2 is side elevation of the lock with the closing plate removed. Fig. 3 is a similar view showing the coin inserted and parts in unlocked position. Fig. 4 is a similar view

showing the parts in position after the bolt has been projected. Fig. 5 is a detail horizontal section taken through the key cylinder. Fig. 6 is a detail vertical section taken through the money drawer. Fig. 7 is a perspective view of the key cylinder removed. Fig. 8 is a perspective view of the coin discharging plate.

Referring more particularly to the drawing, 1 represents an ordinary lock casing having a closing plate 2 secured over the casing by means of the screw 3 which threads into the central pivoting stud 4. Slidably mounted in the casing and adapted to be projected through the opening 5 and the front plate 6 thereof is a bolt 7 which is guided in its movements by lugs 8. The bolt is provided as is usual with a boss 9 which is engaged on either side of the lug 10 formed upon the pivoted keeper member 11 held in engagement with the bolt beneath the spring 12. The bolt is provided with the usual notch 13 which is adapted to be engaged by an upstanding lug 14 carried on the arm 15 and the key cylinder 16. This key cylinder is adapted to receive a flat key 17 having an aperture 18 formed therein which registers with a similar aperture 19 formed in the key cylinder. The key cylinder is provided, as is usual, with the limiting arms 20 and 21 which abut against the bolt and limit the forward and rearward movement thereof.

Pivotally mounted upon the central pivoting stud 4 is a curved arm 22 having an attenuated end adapted to pass through the slots 19 and 18 when the bolt is in retracted position to the key cylinder stopped against rotation by reason of the engagement with the arm 20 with the bolt. This arm 22 is normally held in such position by means of a leaf spring 23 and is thrown to inoperative position by a check or coin which is adapted to engage a depending finger 24 formed integrally with the arm. When a check or coin is passed through the slot 25 in the front plate 6 and forced against the finger 24, said finger will be carried behind the end of a locking spring 26 secured to a lug on the front plate 6. When this finger has been operated upon by the coin and the arm 22 thrown to inoperative position, the key cylinder may be rotated by the key until the bolt is in locked position when the key may be withdrawn and retained by the depositor of the coin until it is

desired to remove the articles placed in the locker.

In order to disengage the end of the spring 26 from the end of the finger 24, there is provided a sliding plate 27 having a depending finger 28 and a diagonal slot 29 which is engaged by a pin 30 carried upon the bolt 7. The plate is normally moved in a direction so that the finger will engage the spring 26 by a leaf spring 31 so that when the bolt is projected, the spring 31 and the pin traveling in a diagonal slot 29 will force the finger 28 into engagement with the spring 26, release the same from the end of the finger 24, and permit the spring 23 to throw the attenuated end of the arm 22 into engagement with the key cylinder.

Slidably mounted through an opening 32 formed in the front plate 6 is a money receiving drawer 33 having a latching bolt 34 rotatably mounted therein and provided with lugs 35 adapted to be engaged by a spring 36. This spring is thrown out of engagement with the lugs by the key which enters the bolt for turning the same so that when the key is forced into the bolt, the spring will be released from the lug and the bolt will be permitted to turn with the key.

What is claimed is:—

1. In combination, a casing, a sliding bolt mounted therein, a rotatably mounted key cylinder having a slot therein and a bolt operating arm, a key having an aperture adapted to register with the slot in the cylinder, and means for engaging the slot in the cylinder and aperture in the key for locking the cylinder against rotation and the key against removal from the cylinder.

2. In combination, a casing, a sliding bolt

mounted therein, a key rotatably mounted in the casing and having an aperture and a bolt operating arm, pivoted means spring operated for engaging the aperture in the key cylinder to prevent the cylinder from rotating, means for throwing said pivoted means to inoperative position, means for locking the pivoted means in inoperative position, and means actuated on the projection of the bolt for disconnecting the locking means.

3. In combination, a casing, a sliding bolt mounted therein, a rotatably mounted key cylinder having a slot therein and a bolt operating arm, a key having an aperture adapted to register with the slot in the cylinder, means for engaging the slot in the cylinder and aperture in the key for locking the cylinder against rotation and the key against removal from the cylinder, and means for releasing the key and cylinder locking means.

4. In combination, a casing, a sliding bolt mounted therein, a key cylinder rotatably mounted in the casing and having an aperture and a bolt operating arm, pivoted means spring operated for engaging the slot in the key cylinder to prevent the same from rotating, means for throwing said means to inoperative position, means for locking the pivoted means in inoperative position, and bolt operated means for disconnecting said locking means.

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

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Witnesses:

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