

P. R. GILBERT.
 LOCK FOR UMBRELLAS, CANES, AND THE LIKE.
 APPLICATION FILED AUG. 19, 1910.

977,612.

Patented Dec. 6, 1910.
 2 SHEETS—SHEET 1.

Fig. 1

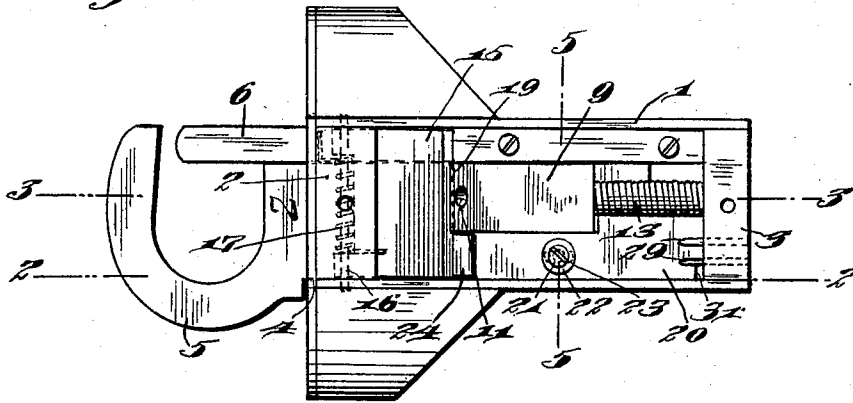


Fig. 2

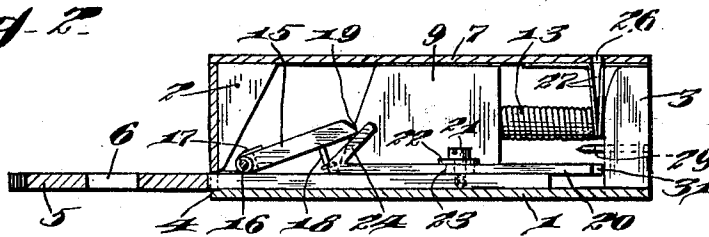
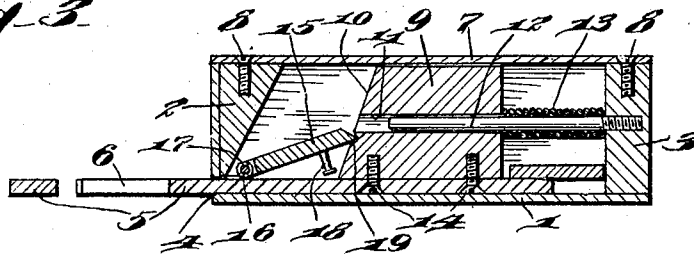


Fig. 3



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Fig. 4.

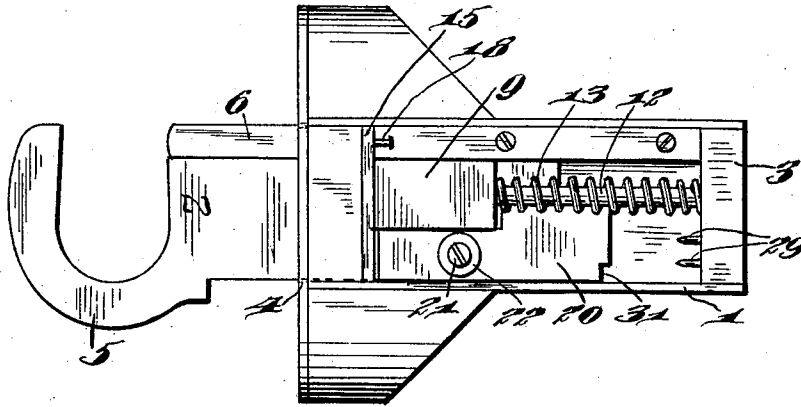


Fig. 5.

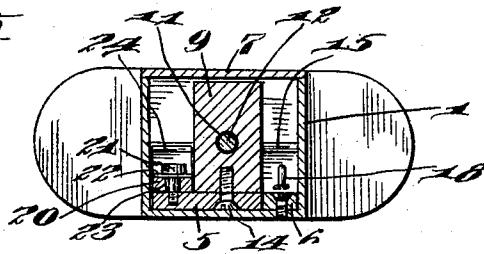


Fig. 6.

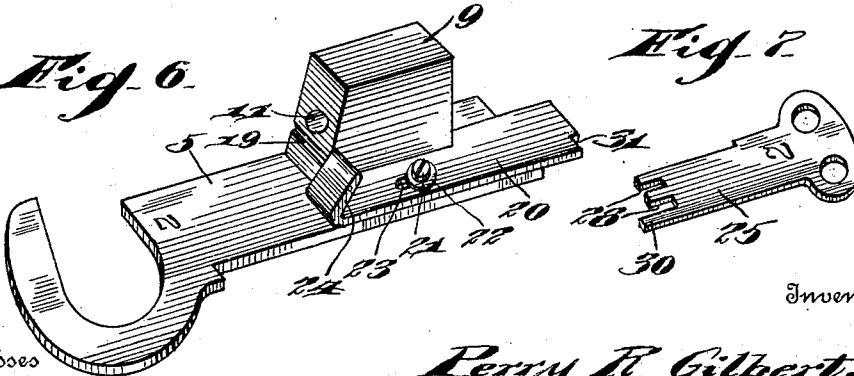


Fig. 7.

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UNITED STATES PATENT OFFICE.

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LOCK FOR UMBRELLAS, CANES, AND THE LIKE.

977,612.

Specification of Letters Patent.

Patented Dec. 6, 1910.

Application filed August 19, 1910. Serial No. 578,065.

To all whom it may concern:

Be it known that I, PERRY R. GILBERT, a citizen of the United States, residing at Chambersburg, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Locks for Umbrellas, Canes, and the Like, of which the following is a specification.

My invention relates to improvements in locks for umbrellas, canes, and the like, the object of the invention being to provide an improved device of this character constituting a lock, which when an umbrella, cane or other article is in position in the locking bar and the latter moved longitudinally, the mechanism within the casing will operate to hold the bar in this position so as to effectually secure the umbrella or cane, and a suitable key is provided which is numbered in accordance with the lock casing, and which the owner of the umbrella or cane removes and retains as a check.

A further object is to provide improved locking means for the locking bar, which means are released by the key and so construct the parts that each individual lock will have a different shape of key so that no two locks can be opened with the same key.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings: Figure 1, is a plan view illustrating a single lock with the top plate removed and showing the parts in locked position. Fig. 2, is a view in longitudinal section on the line 2—2 of Fig. 1, with the top plate in place. Fig. 3, is a view similar to Fig. 2 on the line 3—3 of Fig. 1. Fig. 4, is a view similar to Fig. 1, but showing the parts in unlocked position. Fig. 5, is a view in section on the line 5—5 of Fig. 1. Fig. 6, is a detail perspective view of the locking bar and the releasing slide, and Fig. 7, is a view of the key.

While I have illustrated, and will hereinafter describe a single lock, it is to be understood that in ordinary use a plurality of these locks may be employed, adapted to be

attached to a suitable normally stationary support and each of them differently numbered and having keys numbered to conform to the numbers of the locks.

1, represents a lock casing which is of the rectangular form illustrated and provided at its ends with blocks 2, and 3, respectively, secured in the casing, the forward end of the casing being slotted as shown at 4 to receive the locking bar 5 which projects beyond the casing at one end where it is recessed or made hook shape as shown, and when the bar is in locked position as illustrated in Figs. 1, 2, and 3, the recessed portion is closed or partially closed by means of a fixed bar 6 secured to the casing and serving to confine an umbrella or cane within the recessed portion of the locking bar. A top plate 7 is removably secured to the blocks 2, and 3, by means of screws 8, and confines the working parts of the lock.

A block 9 is secured upon the locking bar 5 within casing 1, and is provided with an inclined face 10 at its forward end. This block 9 is provided with a longitudinal opening 11 to receive a guide rod 12 screwed into the end block 3, and on this rod 12 a coiled spring 13 is located bearing against block 9, and tending always to press the block and the locking bolt toward the unlocked position of the bar. The block 9 may be secured to the bar 5 in various ways, and I have shown screws 14 for this purpose. A catch plate 15 is connected by a hinged pin 16 with casing 1, and around the same, within a recessed portion of the catch plate, a coiled spring 17 is located tending to press the catch plate downward, the latter being provided with a lug 18 to limit the downward movement of this plate. The free edge of the catch plate is adapted to move along the inclined face 10 of block 9, and when the locking bar is moved inward to locking position, this free edge of the catch plate 15, which is preferably beveled as illustrated, will move into a notch 19 in said inclined face 10, and hold the block and locking bar in their locking positions. To release this catch plate, a slide bar 20 is mounted to slide on the bar 5, and is connected to the bar by means of a screw 21 having a headed upper end positioned against the washer 22 on the slide,

said screw projecting through a slot 23 in the slide, and screwed into the bar 5. The forward end of this bar 20 is turned upwardly and rearwardly forming a tongue 24, which operates as a cam and extends under catch plate 15, so that when this bar 20 is moved forwardly, the tongue 24 will serve to lift the catch plate 15 out of the notch 19 when the spring 13 will move the locking bar to unlocked position. To operate this slide bar 20, it is necessary to employ the proper key illustrated at 25. This key is adapted to be entered through a key-hole 26 in the top plate 7, and move between spring guards 27. The key 25 is provided with properly arranged recesses 28 to accommodate pins 29 in the block 3, and the key is also provided with a tongue 30 adapted to enter a recess 31 in the end of slide bar 20. When in this position, the key must be given a slight tilting movement in order to move the bar 20 longitudinally to release the catch 15. The forward movement of the locking bar 5 brings the bar 20 into contact with catch plate 15, so that bar 20 is moved backward to normal position.

It is to be understood that by different arrangement of pins 29 and recesses 28, a great variation is permissible so as to provide separate keys for the separate locks, and the keys 25 and the forward ends of the locking bars are preferably numbered alike so that the owner of the umbrella or cane can retain the key as a check, and he alone can release the umbrella from the lock.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

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

1. In a lock of the character described, the combination with a casing, of a sliding lock bar projecting therein, means for moving the bar to unlocked position, a block secured on said bar, a hinged catch plate adapted to engage said block and lock the bar in locking position, and a sliding bar mounted on the lock bar and constructed to engage said plate and move it from its locking position, substantially as described.

2. In a lock, the combination with a casing, a locking bar projecting into said casing, and means for moving the bar to unlocked position, of a block fixed to the bar within the casing and having an inclined forward end and a notch in said inclined end, a hinged catch plate adapted to engage in said notch and hold the parts in locking position, and a slide mounted on the locking

bar and constructed to move said catch plate out of the notch and release the locking bar, substantially as described.

3. In a lock, the combination with a casing, a locking bar projecting into said casing, and means for moving the bar to unlocked position, of a block fixed to the bar within the casing and having an inclined forward end and a notch in said inclined end, a spring pressing against the rear end of said block and tending to move the locking bar to unlocked position, a spring pressed hinged catch plate adapted to engage the inclined face of the block and move into the notch to hold the block and the locking bar in locked position, and a slide bar mounted on the locking bar and adapted to move said plate out of the notch, substantially as described.

4. In a lock, the combination with a casing and a locking bar projecting into said casing, of a block fixed to the bar within the casing and having an inclined forward end and a notch in said inclined end, a spring pressing against the rear end of said block and tending to move the locking bar to unlocked position, a spring pressed hinged catch plate adapted to engage the inclined face of the block and move into the notch to hold the block and the locking bar in locked position, a slide bar mounted to slide on the locking bar and having an upwardly and rearwardly inclined tongue at its forward end positioned under the catch plate, and a key constructed to move said slide whereby said tongue will elevate the catch plate out of the notch, substantially as described.

5. In a lock, the combination with a casing and a locking bar projecting into said casing, of a block fixed to the bar within the casing and having an inclined forward end and a notch in said inclined end, a spring pressing against the rear end of said block and tending to move the locking bar to unlocked position, a spring pressed hinged catch plate adapted to engage the inclined face of the block and move into the notch to hold the block and the locking bar in locked position, a slide bar mounted to slide on the locking bar, and having an upwardly and rearwardly inclined tongue at its forward end positioned under the catch plate, and a key constructed to move said slide whereby said tongue will elevate the catch plate out of the notch, said slide bar having a recessed end, and said key having a tongue to enter said recessed end, substantially as described.

6. In a lock, the combination with a casing and a locking bar projecting into said casing, of a block fixed to the bar within the casing and having an inclined forward end and a notch in said inclined end, a spring pressing against the rear end of said block and tending to move the locking bar to unlocked position, a spring pressed hinged catch plate adapted to engage the inclined

face of the block and move into the notch to
hold the block and the locking bar in locked
position, a slide bar mounted to slide on the
locking bar, and having an upwardly and
5 rearwardly inclined tongue at its forward
end positioned under the catch plate, a key
constructed to move said slide whereby said
tongue will elevate the catch plate out of the
notch, said slide bar having a recessed end,
10 said key having a tongue to enter said re-

cessed end, pins in the end of the lock cas-
ing, and notches in the end of the key to re-
ceive said pins, substantially as described.

In testimony whereof I have signed my
name to this specification in the presence of 15
two subscribing witnesses.

PERRY R. GILBERT.

Witnesses:

EMIL F. BIETSCH,
ALICE P. BIETSCH.