

G. N. MASON.
 REVERSIBLE STORE DOOR LOCK.
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1,058,613.

Patented Apr. 8, 1913.

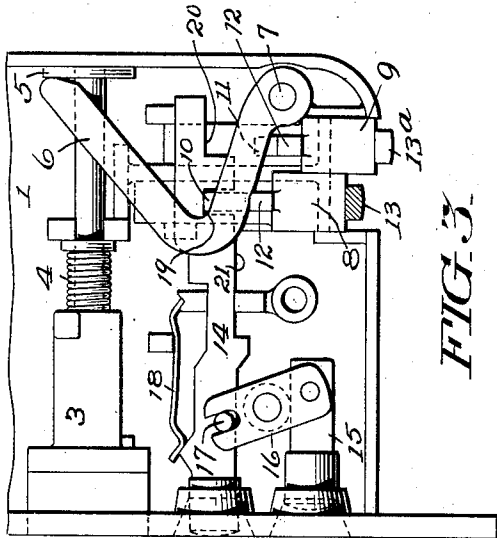


FIG. 2

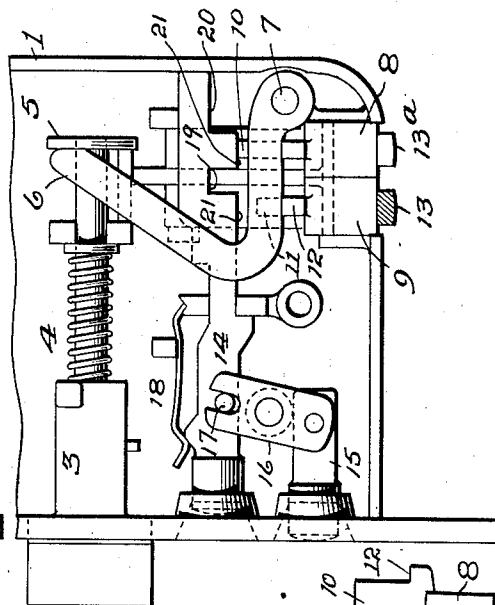


FIG. 3

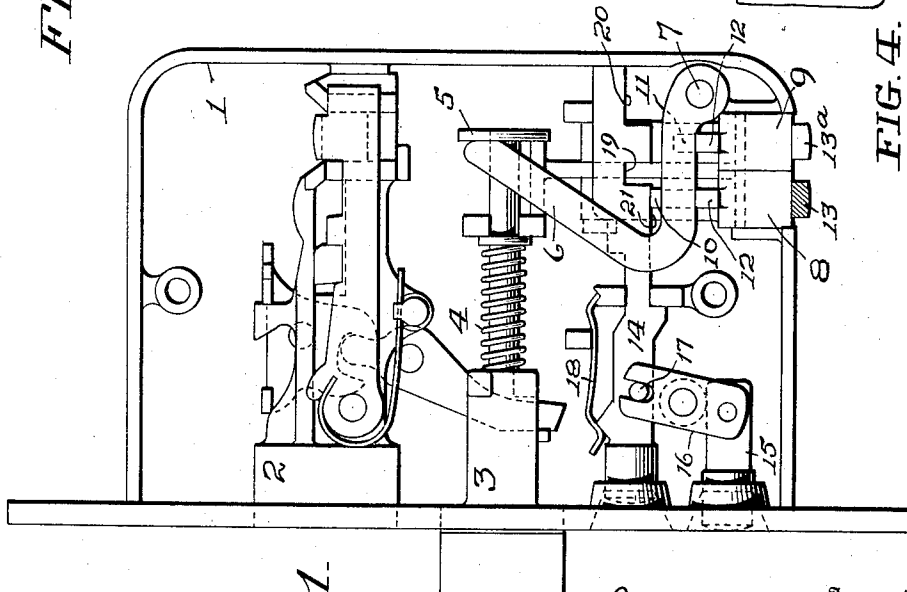


FIG. 4

FIG. 1

Witnesses

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GEORGE N. MASON, OF READING, PENNSYLVANIA, ASSIGNOR TO READING HARDWARE COMPANY, OF READING, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

REVERSIBLE STORE-DOOR LOCK.

1,058,613.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE N. MASON, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Reversible Store-Door Locks, of which the following is a specification.

This invention relates to improvements in locks of the class commonly known as store door locks and the object in the present instance is to provide a lock of this character with a simple means of reversing the latch bolt action.

The invention consists of two independently actuated blocks for retracting the spring backed latch bolt, which blocks may easily be removed and replaced in reverse or relatively opposite positions, so that either block may be placed for actuation by the inside or outside thumb operating lever.

The invention is more fully described in the following specification and clearly illustrated in the accompanying drawing, in which:—

Figure 1 shows the lock in plan view, with the back plate of the casing removed, the latch bolt projected and the lock stop at its innermost position. Fig. 2 is a like view showing only the lower portion of the lock, with the latch bolt retracted and the lock stop at its forward position. Fig. 3 is a similar view with the latch bolt projected but with the operating blocks in reversed position. Fig. 4 is a detail, showing a side view of one of the operating blocks.

The numeral 1 designates the casing. 2 the locking bolt. 3 the latch bolt, backed by the spring 4 and carrying at its inner end a shoulder 5.

6 designates the retracting lever, the upper end of which engages the shoulder 5 and the lower end of which is pivoted to the casing, at 7.

The numerals 8 and 9 designate the two operating blocks. These blocks are arranged to slide vertically in the casing, the block 8 having a relatively long heel 10 while the block 9 has a relatively short heel 11. Each block is provided with a lug 12 on its face for engagement with the lever 6.

The numerals 13 and 13^a designate the thumb levers for raising the blocks 8 and 9.

14 designates the lock stop and 15 the lower stop member for projecting the lock

stop through the medium of a pivoted lever 16 which engages at its free end with a pin 17 on the lock stop 14. The lock stop is backed by a spring 18 to keep it properly placed. The lock stop 14 is formed at its inner end with two depressions 19 and 20 to permit clearance for the heel 10 on the block 8.

With the parts in the position shown in Fig. 1, the thumb lever 13 would not raise the block 8, for the reason that its heel 10 is in contact with the under surface 21 of the lock stop 14; but, the block 9 could be raised by its lever 13^a and the lug 12 will, as it rises, engage the lever 6, cause it to turn on its pivot 7 and retract the latch bolt 3.

With the parts as shown in Fig. 2, that is, with the lock stop 14 at its inner position, the block 8 will be free to rise for the reason that the depression 19 has been brought in alinement with the heel 10.

With the parts as shown in Fig. 3, which shows the blocks 8 and 9 reversed, the opposite thumb lever is locked against action when the lock stop is at its inner position; the heel 10 contacting with the under surface of the lock stop, 21; but when the lower stop member 15 is operated, projecting the lock stop to its forward position, the block 8 will be free to move vertically as the heel will enter the clearance space 20 at the end of the lock stop. The lever 6 lies flat on the top of the lock stop and is free to be lifted from its pivot 7. To reverse the action of the lock, this lever is lifted from its pin 7; the blocks 8 and 9 are lifted out and replaced in reversed position; and the lever 6 replaced. This simple action easily and quickly reverses the lock action.

I claim:—

1. In a store door lock, a casing, a spring backed latch bolt, means for retracting the latch bolt comprising a loosely pivoted lever, a pair of vertically movable, transposable blocks adapted to actuate the lever, a pair of thumb levers for raising the blocks and a lock stop adapted for direct engagement by one of the blocks whereby the latch bolt may be locked against action by either of the thumb levers.

2. In a lock the combination of a spring backed latch bolt, a removable retracting lever for the latch bolt, a pair of transposable lifting blocks adapted to move said lever and a lock stop adapted for direct con-

tact with one of said blocks while in either of its positions to prevent its movement by the thumb lever.

3. In a lock the combination of a spring
5 backed latch bolt; means for retracting the latch bolt comprising a pair of vertically movable, transposable blocks a relatively long heel on one of the blocks, a pair of thumb levers for raising the blocks, a remov-
10 able lever pivoted to the casing at one of its ends, projecting across the path of, and capable of being operated by said blocks and contacting with the latch bolt at its free end; and a lock stop formed with a pair of
15 depressions to receive the long heel on one of the blocks when said block is in either position.

4. The combination in a lock, of a casing, a latch bolt, a removable lever loosely piv-

oted at one of its ends to the casing and in 20 engagement with the latch bolt at its free end, a pair of vertically movable, transposable blocks one of which is formed with a relatively long heel and both of which are adapted to engage and move said lever, and 25 a lock stop formed with depressions to receive the long heel on one of the blocks and contact surfaces for engagement by said heel to prevent the vertical movement of the block provided with the long heel, and 30 thumb levers for moving said blocks.

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

GEORGE N. MASON.

Witnesses:

ED. A. KELLY,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
