

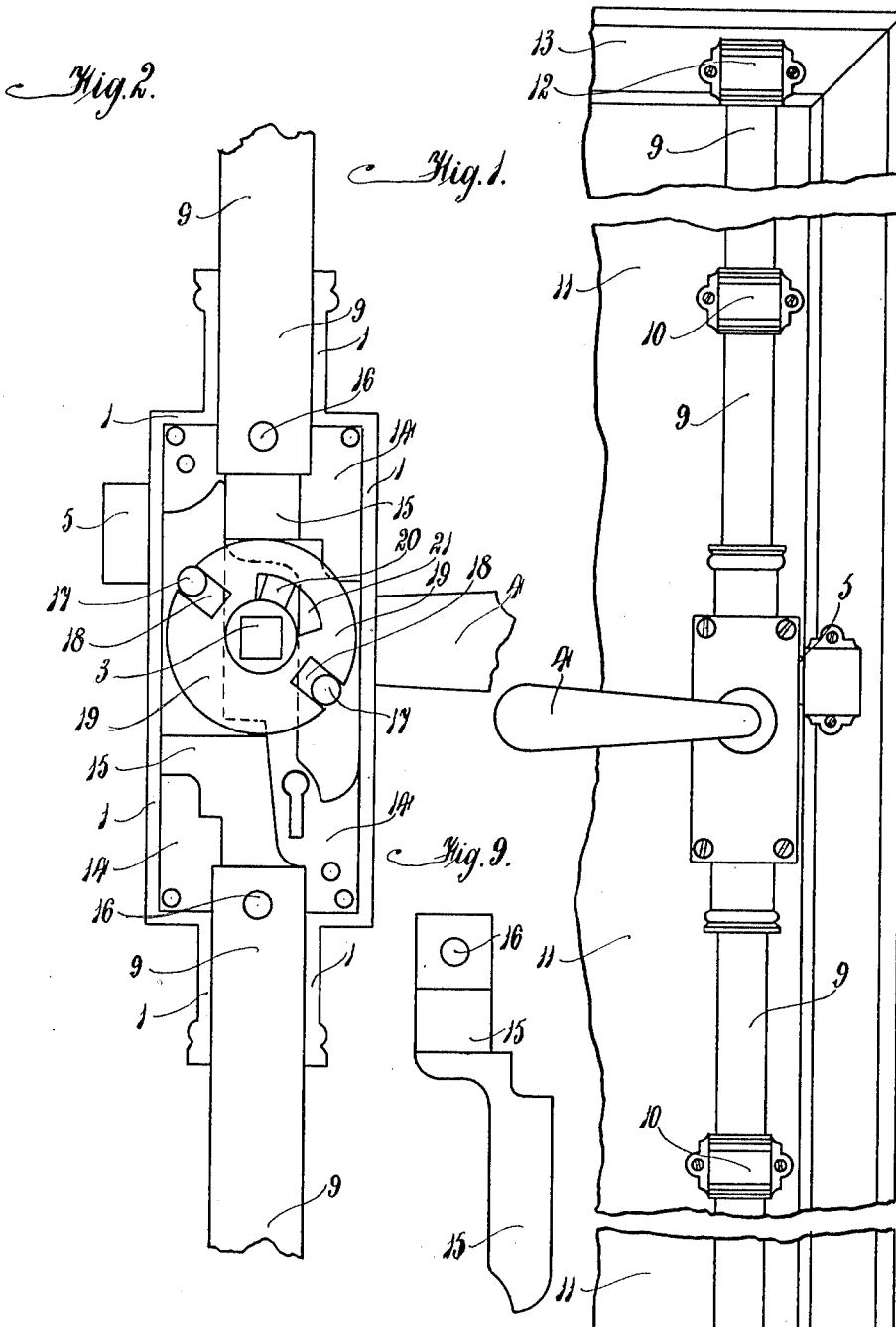
S. R. PARKES.
LOCK.

APPLICATION FILED NOV. 1, 1912

1,064,002.

Patented June 10, 1913.

2 SHEETS-SHEET 1.



WITNESSES
John T. Storing
Frank H. Logan

INVENTOR
S. R. PARKES
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S. R. PARKES.

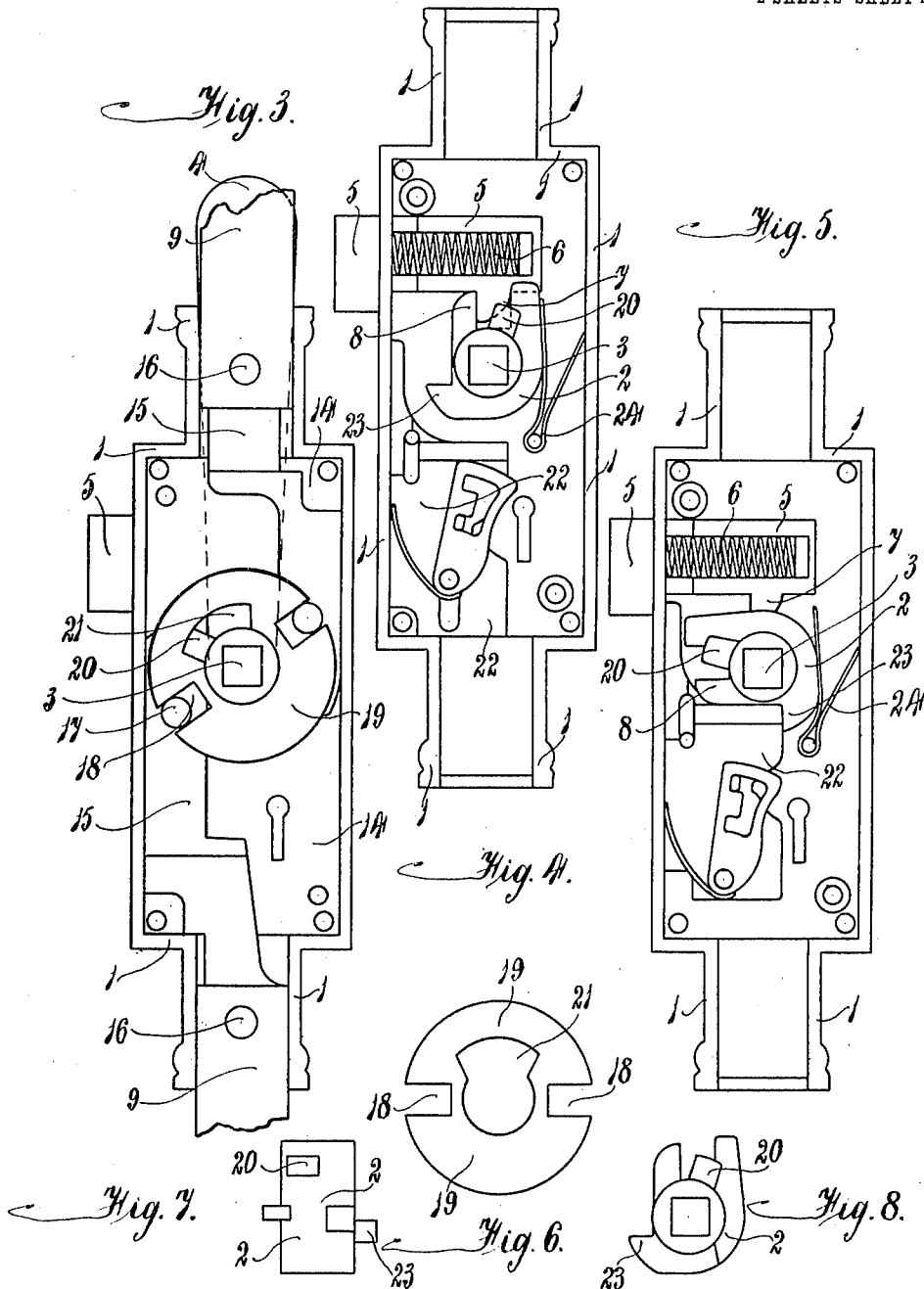
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2 SHEETS—SHEET 2.



WITNESSES
John A. Storing
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UNITED STATES PATENT OFFICE.

SAMUEL ROWLAND PARKES, OF WILLENHALL, ENGLAND.

LOCK.

1,064,002.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed November 1, 1912. Serial No. 729,027.

To all whom it may concern:

Be it known that I, SAMUEL ROWLAND PARKES, subject of the King of Great Britain, residing at Pretoria Works, Willenhall, in the county of Stafford, England, have invented a new and useful Lock; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention comprises improvements in fastening devices for doors, windows and the like.

It is usual to provide a door with at least one lock or latch and one or two bolts, but it is impossible to actuate these bolts from outside of the door so that when the door is fastened from the outside, as in a lock-up shop, the bolts are quite useless, the only effective fastening employed being the lock or latch.

The object of my present invention is to provide a fastening device which is particularly useful upon the doors of lock-up shops, though it may also be employed upon windows for like purposes, and in accordance therewith I employ in combination with a latch one or more bolts actuated by the handle which controls the latch and preferably also a locking device whereby both the latch and the bolts may be locked in their secured positions.

Referring to the drawings:—Figure 1. is an elevation of part of a door with my fastening device in position. Fig. 2. is a rear view with the cover plate removed showing the mechanism for controlling the bolts the bolt controls being in their retracted position. Fig. 3. is a similar view as when the bolts are in their advanced position. Fig. 4. is an interior view showing the locking and latching mechanism the lock being in its inoperative position. Fig. 5. is a similar view to Fig. 4 with the lock bolt advanced. Fig. 6. illustrates the cam for controlling the bolts. Figs. 7 and 8. show the follower which actuates the latch and the cam for operating the bolts. Fig. 9. is a view showing one of the bolt controls removed.

In carrying my invention into practice as illustrated upon the accompanying drawings the controlling mechanism is contained within the casing 1 and embodies a follower 2 carried by a squared spindle 3 which also carries the controlling handle 4, whose normal position is preferably horizontal as shown in Fig. 1. The latch bolt 5 is advanced by the spring 6 but has a projection

7 against which a projection 8 on the follower normally abuts, being so arranged that when the handle is pressed downwardly from the position shown in Fig. 1 the latch bolt is retracted being obviously returned to its original position by the spring 6. The bolts 9 are carried in suitable guides 10 upon the door 11 and their extremities are adapted to engage sockets 12 carried on the door frame 13. The casing is divided into two compartments by the removable plate 14, the mechanism illustrated in Figs. 4 and 5 being on one side of this plate, while the mechanism illustrated in Figs. 2 and 3 is in the other compartment. In the second compartment are located two sliding members 15 having on their extremities pegs or projections 16 which engage corresponding openings in the bolts 9 or are otherwise so connected that when the slides are actuated the bolts move with them. On the inner extremities of the slides are other projections 17 which engage notches 18 in the controlling disk 19 which fits around the follower, the follower having a projection 20 which engages with one of the extremities of the notch 21 when the handle and follower are moved sufficiently. These parts are illustrated in their normal position by Fig. 2, and when the handle is depressed in manner previously explained although the latch will be retracted yet the bolts will not be operated, for the depression of the handle will not bring the projection 20 to the bottom of the opening 21. To actuate the bolts it is necessary to move the handle in the reverse direction to bring it into a vertical position, when the projection 20 will engage the upper end of the recess 21 thereby rotating the disk 19, and through the projection 17 and notches 18 will advance the slide 15 and bolts 9.

The locking mechanism is designed to operate when the handle is in the vertical position and the bolts are advanced, the lock bolt 22 being arranged to engage with a projection 23 on the follower when in a suitable position. When the follower is in the position shown by Fig. 4 it prevents the lock bolt being advanced, but when in the position shown by Fig. 5 the lock bolt may be fully advanced when it is impossible to rotate the follower as the projection 23 engages with the lock bolt, and obviously when the lock has been actuated it is impossible for the handle to be moved to either retract the

latch or the bolts. The spring 24 is employed to retain the follower in position.

It will be obvious that the bolts might be arranged to move in any suitable direction in addition to that illustrated, as parallel to the direction of movement of the latch, while if desired only one bolt might be used or more than two.

Although the invention is particularly applicable to the doors of lock-up shops yet it may also be applied to casement windows or the like, in which case the bolts might be arranged to engage with a plurality of sockets or projections in the window sill or in the top of the window or in a quadrant plate, or other fixture attached thereto whereby the window may be securely fastened in a partially open position and locked thereat.

It will be seen that by this invention I provide a combined latch and bolt fastening which is operated by a single handle which may be entirely actuated from the outside of the door or window and which may be locked from either side.

What I claim then is:—

1. In a fastening device for doors, windows and the like, the combination of a spindle; a handle carried by said spindle; a spring advanced latch bolt; a roll back carried by said spindle and engaging said latch bolt whereby the latch bolt is retracted when the handle is moved in a suitable direction; a pair of sliding bolts each having a projecting member; a disk carried by said spindle and having notches which engage with said projections on the bolts; a radially projecting member carried by the spindle engaging an annular slot or opening in the disk whereby said disk will move with the spindle after a limited independent movement thereof.

2. In a fastening device for doors, windows and the like, the combination of a spindle; a handle carried by said spindle; a

spring advanced latch bolt; a roll back carried by said spindle and engaging said latch bolt whereby the latch bolt is retracted when the handle is moved in a suitable direction; a pair of sliding bolts each having a projecting member; a disk carried by said spindle and having notches which engage with said projections on the bolts; a radially projecting member carried by the spindle engaging an annular slot or opening in the disk whereby said disk will move with the spindle after a limited independent movement of said spindle; and a key actuated locking device for retaining said sliding bolts and spring latch bolt in their advanced positions.

3. In a fastening device for doors, windows and the like, the combination of a spindle; a handle carried by said spindle; a spring advanced latch bolt; a roll back carried by said spindle and engaging said latch bolt whereby the latch bolt is retracted when the handle is moved in a suitable direction; a pair of sliding bolts each having a projecting member; a disk carried by said spindle and having notches which engage with said projections on the bolts; a radially projecting member carried by the spindle engaging an annular slot or opening in the disk whereby said disk will move with the spindle after a limited independent movement of said spindle; and a key actuated lock bolt arranged to advance and engage with the aforementioned roll back to prevent retraction of the spring latch bolt and the sliding bolts.

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

SAMUEL ROWLAND PARKES.

Witnesses:

HAROLD C. FORRESTER,
NORMAN S. BARLOW.