

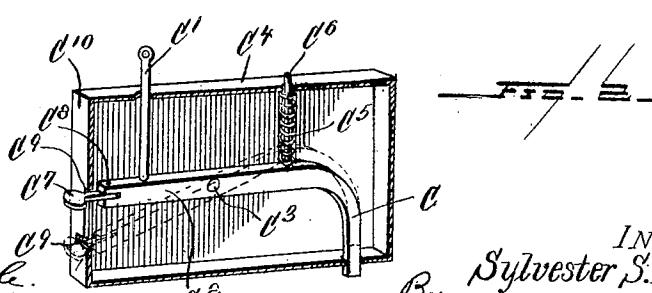
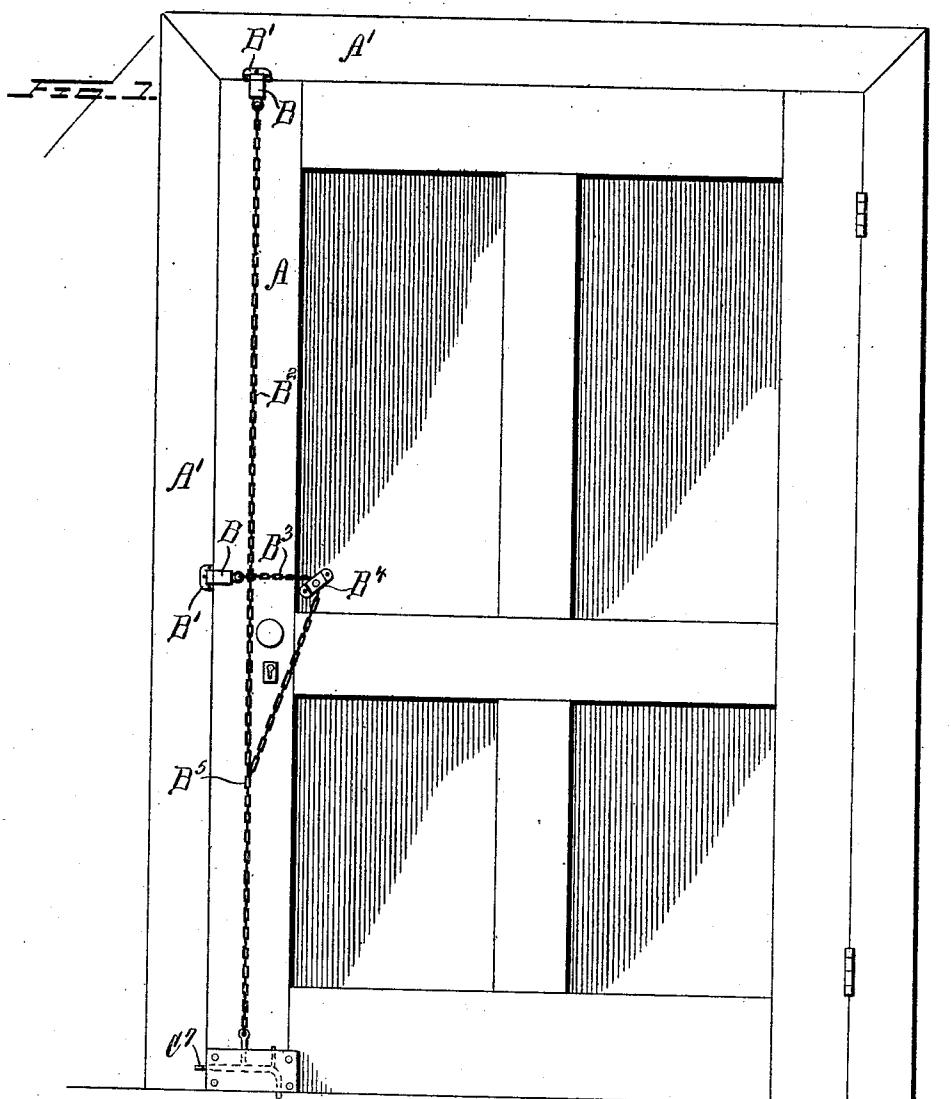
No. 809,184.

.PATENTED JAN. 2, 1906.

S. S. HAWLEY.

MULTIPLE BOLT MECHANISM.

APPLICATION FILED APR. 5, 1905



WITNESSES:

11th Doyle. 09-
Alfred T. Gage.

INVENTOR
Sylvester S. Hawley.
By E. B. Stocking
Attorney

UNITED STATES PATENT OFFICE.

SYLVESTER S. HAWLEY, OF CENTRALIA, ILLINOIS.

MULTIPLE-BOLT MECHANISM.

No. 809,184.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed April 5, 1905. Serial No. 253,942.

To all whom it may concern:

Be it known that I, SYLVESTER S. HAWLEY, a citizen of the United States, residing at Centralia, in the county of Marion, State of Illinois, have invented certain new and useful Improvements in Multiple-Bolt Mechanism, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to a multiple-bolt operating mechanism, and particularly to a construction whereby a plurality of spring-actuated bolts or latches are simultaneously operated by a movement of one of them.

15 The invention has for an object to provide an improved construction and arrangement of the parts by which in the operation of a bolt other latches or bolts disposed at different points may be simultaneously moved and the 20 operating-bolt secured and held in its adjusted position.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the 25 appended claims.

In the drawings, Figure 1 is an elevation showing the invention applied to a door, and Fig. 2 a detail perspective of the operating-bolt for the mechanism.

30 Like letters of reference refer to like parts in both figures of the drawings.

The letter A designates a door or other similar structure to which the bolts or locking mechanism B may be applied and coöperate with a suitable keeper B' upon the frame A' of the door. These bolts B are of any preferred construction in common use, but preferably spring-actuated, and the bolt at the top of the door is connected with the operating-bolt at the bottom of the door by means of a chain or other suitable connection B², extending therefrom to a rod C', carried by the lever C² of the bolt C, which bolt is pivotally mounted at C³ within any suitable form of casing C⁴. The bolt B at the side of the door is connected with the chain B² by means of a supplemental chain B³, passing over a pulley B⁴ and connected at B⁵ with the main chain B². The object of this supplemental chain is to secure a direct pull in releasing the bolt B at the side of the door.

The bolt C is normally thrown downward into contact with the floor or a suitable aperture therein by means of a tension-spring C⁵, which surrounds the post C⁶, carried by the lower bolt, and is disposed between the casing

and the upper face of the bolt. The bolt is provided beyond its pivot with a latch-plate C⁷, pivotally mounted at C⁸ in the free end of the bolt and adapted to oscillate laterally of the bolt in order to engage notches or recesses C⁹, formed in an end wall C¹⁰ of the casing C⁴, these notches or recesses being connected by a slot to permit a downward movement of the lever end of the bolt C when the latch-plate C⁷ is in alignment with the slot.

In the operation of the invention it will be seen that all of the bolts will be released when the latch-plate carried by the lower bolt is depressed and its spring placed under tension, in which position it may be retained by a lateral movement of the latch-plate in the engagement with the lower notch carried by the casing. The door is now free to be opened and may be held in a partially-opened position by releasing the latch-plate, so that the bolt C will be thrown downward to frictionally engage the floor. When the door is closed, with the parts in these positions, the several bolts engage their proper sockets, and the door is thus held, while any operation of the lower bolt by tension upon the connecting means may be obviated by engaging the latch-plate with the upper recess in its casing, as shown by full lines in Fig. 2. It will thus be seen that the lower bolt embodies means for simultaneously operating those connected therewith and for holding them in their locked or unlocked position.

It will be obvious that changes may be made in the details of construction and configuration without departing from the spirit of the invention as defined by the appended claims.

Having described my invention and set forth its merits, what I claim, and desire to secure by Letters Patent, is —

1. In a device of the class described, a pivoted angular operating-bolt provided with a lever at one side thereof, a locking-bolt removed from said operating-bolt, a rod extending from said lever, a connection extending from the locking-bolt to the rod upon the lever of the pivoted bolt, a fixed plate, and a pivoted latch-plate carried by the lever end of the operating-bolt to engage said fixed plate.

2. In a device of the class described, an angular operating-bolt pivoted intermediate of its ends, a casing within which said bolt is disposed, a post disposed upon said bolt at one side of its pivot, a spring surrounding

said post and bearing upon said casing and bolt, and a pivoted latch member mounted upon the free end of the lever portion of the bolt to engage a fixed plate.

5 3. In a device of the class described, an angular operating-bolt pivoted intermediate of its ends, a casing within which said bolt is disposed, a post disposed upon said bolt at one side of its pivot, a spring surrounding 15
10 said post and bearing upon said casing and bolt, a pivoted latch member mounted upon the free end of the lever portion of the bolt

to engage a fixed plate, a connecting-rod extending from the lever end of said bolt through said casing, a bolt disposed at a distance therefrom, and a flexible connection between said rod and locking-bolt.

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

SYLVESTER S. HAWLEY.

Witnesses:

THOMAS MILES,
Jos. H. FYKE.