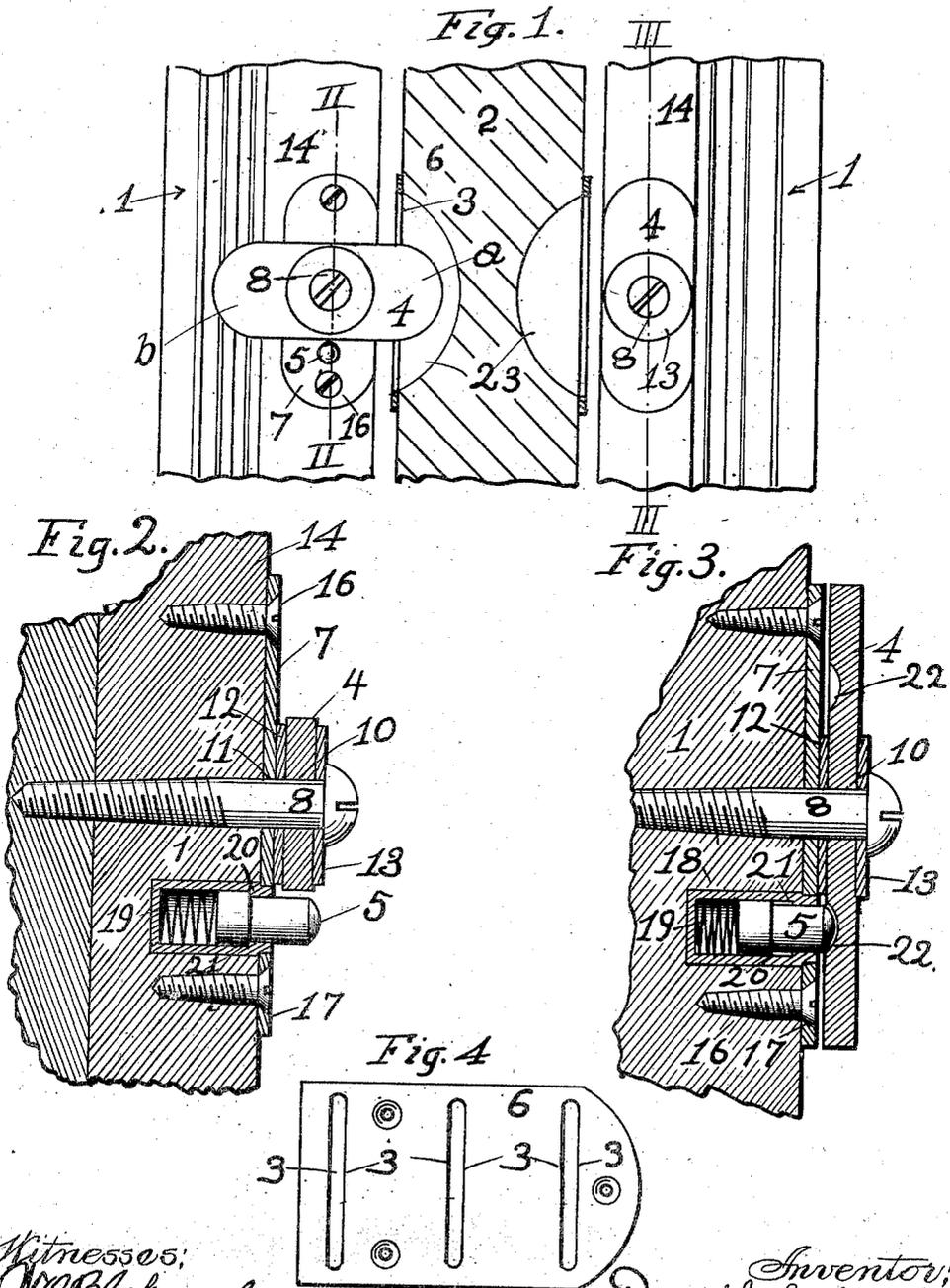


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 FASTENING DEVICE FOR EDGEWISE MOVING CLOSURES AND THE LIKE.
 APPLICATION FILED JULY 11, 1904.

966,865.

Patented Aug. 9, 1910.



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UNITED STATES PATENT OFFICE.

DANIEL SCHUYLER, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE PERFECT SLIDING DOOR COMPANY, OF LOS ANGELES, CALIFORNIA, A CORPORATION OF CALIFORNIA.

FASTENING DEVICE FOR EDGEWISE-MOVING CLOSURES AND THE LIKE.

966,865.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed July 11, 1904. Serial No. 216,120.

To all whom it may concern:

Be it known that I, DANIEL SCHUYLER, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented new and useful Fastening Devices for Edgewise-Moving Closures and the Like, of which the following is a specification.

Objects of this invention are to provide a neat, attractive, unobtrusive, cheap, simple, easily applied and effective means for holding a sliding door or the like, wholly or partially open, and adapted for securely locking such door in such positions; to provide simple means for holding a self-closing door open and also closed; to provide for positively locking such door fully open and fully or partially closed, and to allow a large vertical adjustment of the closure without interfering with the operation of the fastening means.

The invention includes a novel manufactured article in the form of a locking button and it also includes other features and combinations hereinafter more particularly described.

The invention includes a post, an edgewise moving door or other closure having a keeper, a button on the post to engage the keeper and means for holding the button in catching engaging position. Desirably a door is provided with a plurality of keepers in its face, with any of which the engaging means may engage for holding the door in a partly open or entirely closed position. To accomplish this I provide a button in the form of a pivoted plate and provide one or more vertical slots in the face on the door into which the end of the button moves when turned crosswise of the post.

Another object is to provide an effective and safe keyless fastening means adapted for application at a uniform height at both sides of a sliding door so that the occupants of each of two communicating rooms may lock the door independently of the other, when the door is closed, but when the door is open the symmetry of its appearance will not be marred by the keyless fixtures.

The accompanying drawings illustrate the invention.

Figure 1 is a view of a device embodying this invention applied in combination with a sliding door. Fragments of the posts and

door are shown. The door and its catch plate are in section. The door is shown locked by one button, and the other button is shown in unlocking position. Fig. 2 is a sectional view of the locking button and a stop therefor on line II—II Fig. 1 showing the locking button in locked position. Fig. 3 is a like section on line III of Fig. 1 showing the button yieldingly held in unlocking position. Fig. 4 is a side view of a catch plate for the door.

1, 1, designate door posts; 2 an edgewise moving door; 3 keepers thereon; 4 a button pivoted to each post 1 to swing transversely to the door to engage the keepers on the door and 5 is an automatic stop holding the button in locking position.

6 is a catch plate desirably constructed to be applied to the face of the door and having slots which form the keepers 3 in the form shown.

7 is a perforated back plate and 8 is a pivot screw passing through the button and plate and screwed into the door post.

The button 4 and the back plate 7 are desirably of the same shape so that both may be struck from sheet metal by the same die, and both are perforated at the center as shown at 10 and 11 to admit the pivot screw.

12 is a washer between the plate and the button to hold the button slightly away from the plate so that it may be readily grasped by the fingers.

13 is a washer on the outside of the button against which the head of the screw 8 presses. Said screw is desirably screwed into the wooden stop 14 of the door post and can be screwed to any desired tightness to allow the button to move freely and to take up any wear. The back plate 7 is provided with means for fastening the same independently to the door post. This is preferably done by screws 16 through perforations 17 in said plate.

18 is a case at the back of the plate 7 in which the stop 5 moves being pressed outward by a spring 19 and retained by a shoulder 20 on the stop engaging a shoulder 21 in the case.

22 designates beveled recesses on the back side of the button into which the stop 5 will be pressed when the button is at its unlocked position. The recess and the head of the stop are rounded to allow the catch thus

formed to be released when pressure is applied to turn the button into door locking position. The button preferably has two arms as *a b* as shown in the drawings, but it is obvious only one arm is necessary to effect the locking. The other arm serves as a convenient handle for the fingers to grasp to turn the button.

When the button is turned into door locking position the stop springs out into the way between the two arms *a b* so that no matter which way pressure may be applied to turn the button it will be securely held by engagement of the stop with one or the other arm. In this position the stop 5 is exposed so that it may be pushed out of the way of the button by a person on the side of the door on which the button is located.

In installing this device on the door the catch plates may be applied at appropriate height on the door directly opposite each other and fastened by screws. Then holes or recesses 23 over which catch plate 6 is secured may be gouged out of the wood of the door. The slots in said catch plates form perfect guides for forming the holes in the door and are preferably of about the length of the button so as to allow considerable vertical adjustment of the door either up or down without interfering with the button. The width of the catch plate preferably corresponds with the length of the button to give a uniform appearance to the fixture.

A locking device of a compact and neat appearance results from the two oblong centrally perforated plates constituting button 4 and back plate 7, being pivotally connected by means of screw 8 in such a manner that the button 4 covers the plate 7 when the button is unlocked. The perforation for the stop 5 is located at a distance from the axis of the pivotal means approximately equal to one-half of the width of the button 4 by reason of which construction the stop 5 is adapted, without the cooperation of any other stop means to hold the plate 4 against swinging in either direction.

By this invention any number of keepers may be employed for locking the door partly and wholly closed, and when it is wished to lock the door wholly open as is often desirable with gravity closing doors, this can be done by simply turning the button into locking position in front of the edge of the door when the door is wholly open.

When the device is in the locked position shown at the left in Fig. 1 it is secure against release by any one attempting to reach and unlock it from the opposite side of the partly closed door by means of a rod or other common instrument.

The stop is arranged so that it is concealed when the button is in unlocking position and the button covers the back plate

thus to give a simple and unobtrusive appearance when the button is not in use.

The stop 5 seating in its socket at the back of the button will invariably bring the button into exact position to cover the back plate and will firmly hold it there in perfect alinement with such plate, thus avoiding all danger that the button may accidentally swing into position to mar the moving door. Said stop, being mounted as shown, is adapted to move into and out of the path of the button, under alternating pressures, respectively, of the spring 19 and of some external object as the finger of the operator, not shown.

The button preferably consists in an oblong plate the ends of which are duplicates and are rounded as shown, so that either end of the button will enter the slot when turned for this purpose.

What I claim and desire to secure by Letters Patent of the United States is,

1. The combination with a door post and an edgewise moving door, of a button pivotally mounted on the post to swing in a plane transverse to the door, one end of said button being adapted to swing into a narrow recess in said door, and a catch plate secured over said recess and having a slot over said recess in position to receive said end of said button.

2. The combination with a door post and an edgewise moving door, of a button pivotally mounted on the post to swing in a plane transverse to the door, one end of said button being adapted to swing into a narrow recess in said door, a catch plate secured over said recess and having a slot over said recess in position to receive one end of said button, said button having a recess on its under side, and a spring actuated plunger tending to move into said recess in the button.

3. The combination of two oblong centrally perforated plates, with means in the central perforation of said plates pivoting the upper of said plates to the lower, there being a second perforation through the lower plate located at a distance from the axis of said pivoted means approximately equal to one-half the width of the pivoted plate, a stop in said perforation, and a spiral spring located beneath the last named perforation to normally hold the stop in the path of the pivoted plate, said lower plate being provided with means for fastening the same to a support.

4. The combination with an edgewise moving door and a door post, of a slotted plate on the door, a fixed plate on the post, a screw in said fixed plate and post, and an oblong plate pivoted on said screw and provided with duplicate rounded ends either of which is adapted to engage said slotted plate.

5. A door fastener comprising a perforated plate, means to secure the same to a post, a stop mounted in said plate, a slotted catch plate, means to secure the same to a door, an oblong centrally perforated plate having rounded ends and also having one or more face concavities for said stop, and a screw to pivotally secure said oblong plate and said perforated plate together.

10 6. A fastener comprising a catch plate provided with a plurality of slots, means to fasten the same to the side of a door, a perforated plate, means to fasten the same to a door post, a flat plate having duplicate ends

to enter said slots respectively at different positions of the door, a centrally arranged pivot pivoting said plate to the perforated plate, and a stop in said perforated plate adapted to engage said ends respectively to hold the flat plate in catching and releasing positions.

In testimony whereof, I have hereunto set my hand at Bridgeport Connecticut this 9th day of July 1904.

DANIEL SCHUYLER.

In presence of—

JAMES R. TOWNSEND,
ELIZABETH LEONARD.