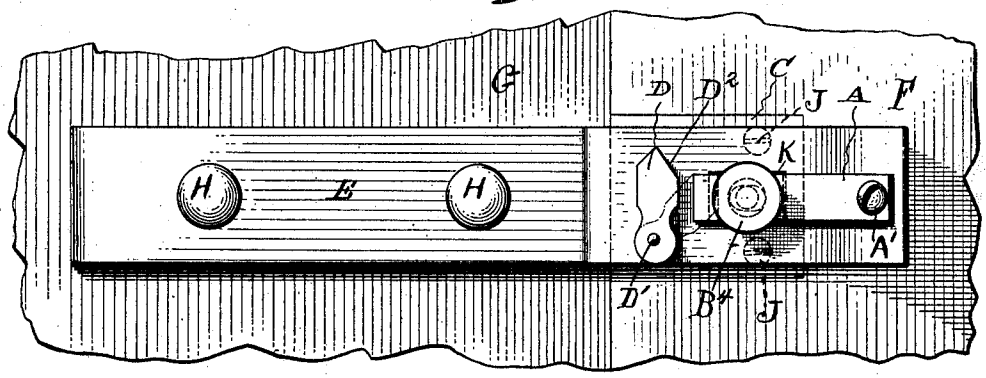
No. 846,235. PATENTED MAR. 5, 1907.

J. A. McPHAYDEN.

SLIDING DOOR FASTENER.

APPLICATION FILED JULY 16, 1906.

Fig. 1.



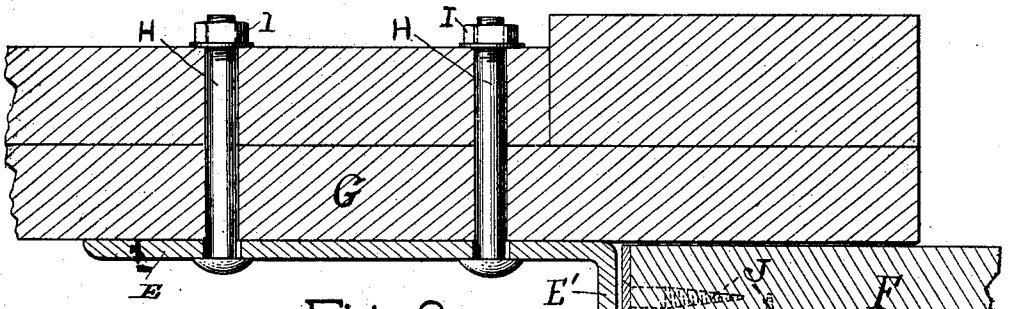
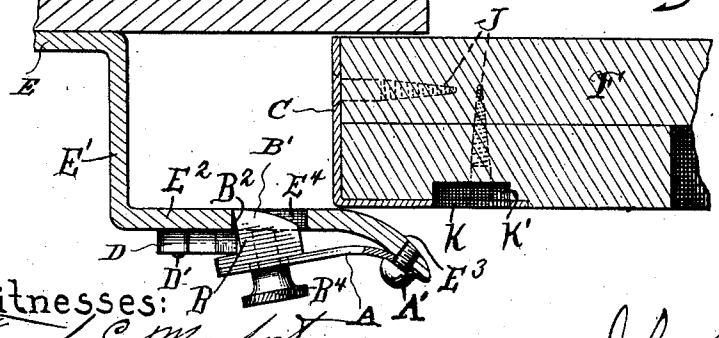


Fig. 2.

Fig. 3.



Witnesses:
Frank E. Monfort
Abe E. Levy.

Inventor:
John A. McPhayden

THE NOF S PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN A. McPHAYDEN, OF EVANSVILLE, INDIANA.

SLIDING-DOOR FASTENER.

No. 846,235. Specification of Letters Patent. Patented March 5, 1907.

Application filed July 16, 1906. Serial No. 326,527.

To all whom it may concern:

Be it known that I, JOHN A. McPHAYDEN, a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented a new and useful Sliding-Door Fastener, of which the following is a specification.

This invention relates to improvements in sliding-door fasteners, and has for its object the provision of means for facilitating the locking of a door in a closed position.

With this and other objects in view the invention consists of certain other novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings, Figure 1 is a view in side elevation of a device constructed in accordance with the present invention. Fig. 2 is a longitudinal sectional view of the device depicted in Fig. 1. Fig. 3 is a fragmentary longitudinal sectional view of the device depicted in Fig. 1, showing the same in an unlocked position.

Referring to the drawings, E designates the body of the striking or stop plate, which is provided with a right-angled extension E′ and with a horizontal extension E^2, which extension E^2 is bent outwardly at its outer end E^3 for forming a guide for facilitating the directing of the slidable door F against the right-angled portion E′. The stop-plate E is secured to the wall or stationary portion G of a building, car, or other structure by any suitable means—as, for instance, bolts H. The bolts H are provided with nuts I, threaded upon one end for securing the base or body portion E of the stop-plate against the wall G.

The slidable or movable door F is provided with an angular protecting-plate C, which is fixedly secured thereto by any suitable fastening means—as, for instance, screws J. The protecting-plate C is apertured, as at K, and said apertured portion K registers with a recess K′, formed in the door.

A catch is carried by the portion E^2 of the stop-plate and comprises a spring A, fixedly secured at the end of the outwardly-curved portion E^3 of the stop-plate through the medium of a removable member, preferably a screw A′. A block B is preferably formed integral with the spring A, and said block is provided with a beveled inner face B′, which permits the door F to slide by said block to its closed position, Figs. 1 and 2. It is to be noted that the portion E^2 of the stop-plate is provided with an aperture E^4, within which the block B is positioned. However, the face B^2 of the block B is formed at right angles to the spring A, and thereby forms an abutment for the edge B^3 of plate C to come in contact with for preventing the door from sliding backward and being placed in an open position. The block B and spring A is provided with a thumb-screw B^4, which is grasped by the operator when it is desired to withdraw the block B from within the recess K′ of the door F. If it is desired to hold the block B out of the recess K′, this may be accomplished by moving the dog D to the position shown in dotted lines, Fig. 1, and as said dog is of sufficient thickness to retain said block in the position illustrated in Fig. 3 the catch will be held in an inoperative position, thereby permitting the door to be freely moved for opening or closing the same.

The dog D is pivoted at D′ upon the stop-plate, and said dog D is provided with a straight face D^2, which is adapted to rest snug against the similarly-constructed edge B^2 of the block B.

If the door is in an open position and it is desired to lock the same in a closed position, it will only be necessary to swing the dog D from engagement with the block B, and upon the door being moved to its closed position, Figs. 1 and 2, the block B will be seated within the recess K, and thereby securely hold the door in its closed position. It will be obvious that the catch can be quickly adjusted for permitting the door to be opened, or if it is desired the dog D can be adjusted for retaining the catch in an inoperative position at all times.

What I claim is—

1. In a device of the character described, the combination with a support and a slidable door, of a stop-plate provided with an outwardly-curved end, secured to said support, said curved end provided with an aperture formed contiguous to its outer end, a removable spring extending parallel with the outwardly-curved end of said stop-plate, fastening means positioned within the aperture of the stop-plate and fixedly securing one end of said spring to said stop-plate, a block formed upon said spring and extending through the stop-plate, a dog carried by said stop-plate and adapted to engage the block for holding the same in an inoperative position, said door provided with a recess, and the block adapted

to be positioned within the recess for locking said door in an adjusted position.

2. In a device of the character described, the combination with a support and a movable door, of an angular protecting-plate provided with an aperture, secured to said door, said door provided with a recess registering with the aperture of said protecting-plate, a stop-plate secured to said support, said stop-plate comprising a base, a right-angled extension integral with said base, an outer extension integral with said right-angled extension, said outer extension provided with an aperture near one end and with an aperture intermediate its ends, a removable spring in engagement with said outer extension, a screw engaging said spring and positioned within the aperture near the end of the outer extension, a block integral with said spring and extending through the other aperture, said block adapted to be positioned within the aperture of the protecting-plate and within the recess of said door for securing the door in an adjusted position, and a dog secured to the outer extension and adapted to be positioned between the outer extension and the spring, in engagement with the block for holding the same in an inoperative position.

3. In a device of the character described, the combination with a support and a movable door, of a stop-plate provided with an aperture, secured to said support, said door provided with a recess adapted to register with the aperture of said stop-plate, a removable spring fixedly secured at one end to said stop-plate, a block secured to said spring intermediate its ends, said block extending through the aperture of said stop-plate and adapted to be positioned within the recess of said door for securing said door in an adjusted position, a dog secured to said stop-plate contiguous to said spring and adapted to be positioned between the stop-plate and the spring against said block for holding the same in an inoperative position.

4. In a device of the character described, the combination with a support and a movable door, of a stop-plate provided with an aperture, secured to said support, a removable spring fixedly secured at one end to the outer end of said stop-plate, a block integral with said spring and normally positioned within the aperture of said stop-plate, a removable thumb-screw carried by said spring and block, and a dog carried by said stop-plate and adapted to be positioned between said spring and stop-plate for holding said block in an inoperative position.

5. In a device of the character described, the combination with a support, of a stop-plate secured to said support, said stop-plate provided with an outer extension positioned parallel with said support, a movable door adapted to be positioned between the outer extension of said stop-plate and said support, said stop-plate provided with an aperture, said door provided with a recess adapted to register with said aperture, a removable spring extending across the aperture of and fixedly secured at one end to the stop-plate, a block secured to said spring intermediate its ends and extending through the aperture of the stop-plate and adapted to be positioned within the recess of the door for securing the door in a locked position, and a dog carried by the outer extension of said stop-plate, contiguous to said spring and adapted to be positioned between the spring and stop-plate for holding said block in an inoperative position.

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

JOHN A. McPHAYDEN.

Witnesses:

WM. L. GEIGER,

HAZEL STOURTON.