

(No Model.)

J. L. FRAZIER.
DOOR SECURER.

No. 463,361.

Patented Nov. 17, 1891.

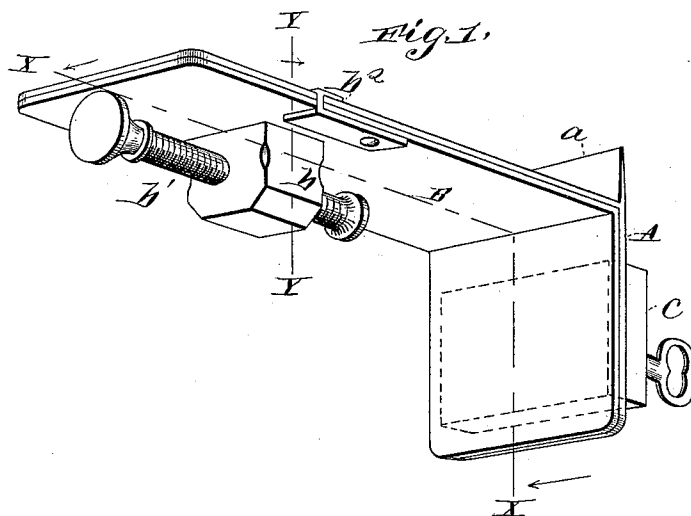


Fig. 2.

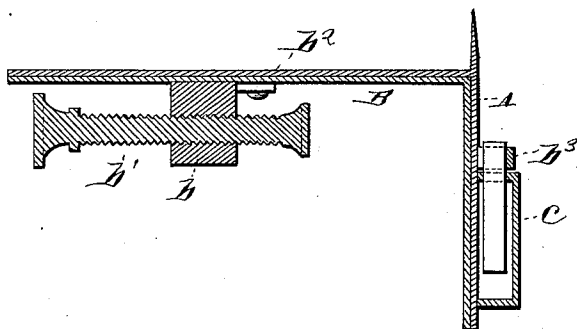


Fig. 4.

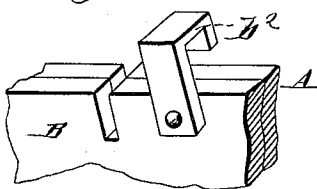
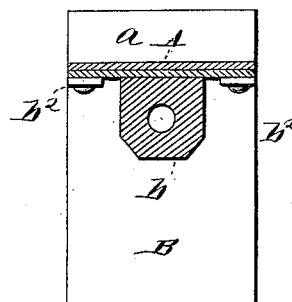


Fig. 3.



Witnesses:
Eben Howells.
W. S. Rayburn.

Inventor:
James L. Frazier.
by N. D. Boishie's atty.

UNITED STATES PATENT OFFICE.

JAMES L. FRAZIER, OF CHICAGO, ILLINOIS.

DOOR-SECURER.

SPECIFICATION forming part of Letters Patent No. 463,361, dated November 17, 1891.

Application filed January 16, 1891. Serial No. 378,055. (No model.)

To all whom it may concern:

Be it known that I, JAMES L. FRAZIER, a citizen of the United States, residing at No. 461 Claremont avenue, in the city of Chicago, State of Illinois, have invented a new and useful Detachable Door-Lock, of which the following is a specification.

My invention relates to locks of that class which are portable and may be easily attached to a door for temporary use and afterward detached and used elsewhere, and are commonly known as "pocket-locks."

The objects of my invention are, first, to provide interlocking plates, one of which is secured to the door-jamb and the other to the door, so that when the door is closed the two plates will lie in juxtaposition and interlock, as hereinafter described; second, to provide means for attaching the outer plates to the door-jamb; third, to provide adjustable mechanism for attaching the inner plate to the door, thereby adapting the lock to use on doors of any thickness; fourth, to provide means for interlocking the plates from the outside of the door, and, fifth, to provide means for interlocking the plates from the inside of the door. This I accomplish by the mechanism shown in the accompanying drawings, in which—

Figure 1 is a perspective view. Fig. 2 is a horizontal section in the plane X X. Fig. 3 is a vertical transverse section on the line Y Y. Fig. 4 is an enlarged detached view showing the notches in the plates A and B into which the latch b^2 falls.

Similar letters in all the figures refer to the same parts.

The main frame of my lock consists of an outer plate A and an inner plate B, both bent at right angles, so that they will fit closely together, as clearly shown in the drawings. At the angle of the outer plate A is an integral projecting plate a , which is in form of a wedge, and its edge is sharpened, so that it may be easily driven into the door-jamb, as I will hereinafter explain. Also secured to the outer plate A is a lock C of any ordinary construction, which, in connection with a staple b^3 , secured to the plate B, serves to lock the plates together from the outside. To the inner surface of the plate B is secured a lug b , supporting a thumb-screw b' , by means of

which the plate B is adjusted to doors of different thickness. Pivoted to the plate B are two latches b^2 , which fit in contiguous notches in the angle-plates A and B, and serve to lock the plates together from the inside after they are in position.

The operation of my lock is as follows: The outer plate A is first secured to the door-jamb by driving the end a into the rabbeted angle of the jamb, so that the longer side of the plate will be parallel to the jamb and the shorter side parallel to the door. The inner plate B is then adjusted to the door, and the thumb-screw b' is turned to clamp the plate to the door in such position that when the door is closed the plate B on the door will come into juxtaposition with the plate A, secured to the jamb, and the staple b^3 will project through the plate A and rest in position to be secured by the bolt of the lock C. The plates, being in the position described, may be locked together from the inside by turning down the latch b^2 or from the outside by throwing the bolt of the lock C.

To open the door it is only necessary to release the latch or withdraw the bolt of the lock, as the case may be.

To remove the lock, loosen the thumb-screw, detach the plate B from the door, and withdraw the plate A from the jamb. The lock may then be packed in any suitable box or case, and may be conveniently carried to be again used on other doors, as occasion may require.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a detachable door-lock, an outer angle-plate having a projecting sharpened wedge to enter the door-jamb, in combination with an inner angle-plate attachable to the door, a lock secured to the outer angle-plate, and a staple secured to the inner angle-plate and entering an opening in the outer angle-plate, substantially as shown and described, and for the purpose stated.

2. In a detachable door-lock, an inner angle-plate having a clamp by means of which said plate may be secured to the door, in combination with an outer angle-plate attachable to the door-jamb, a lock on the outer angle-plate, and a staple on the inner angle-plate

entering an opening in the outer angle-plate, substantially as shown and described, and for the purpose stated.

3. In a detachable door-lock, the combination of an outer angle-plate attachable to the door-jamb and an inner angle-plate attachable to the door and having pivoted latches to enter openings in both angle-plates, substantially as shown and described, and for the purpose stated.

4. In a detachable door-lock, a clamping-screw supported by a lug on and attaching the inner angle-plate to the door, in combination with an outer angle-plate attachable to the door-jamb, a lock on the outer angle-plate, and a staple on the inner angle-plate, substantially as shown and described, and for the purpose stated.

5. In a detachable door-lock, the combina-

tion of an outer angle-plate having at its angle a sharpened wedge for securing said outer angle-plate to the door-jamb, an inner angle-plate attachable to the door by means of a clamping-screw supported on said inner angle-plate, the latches pivoted on the inner angle-plate and entering notches in both plates to latch them together, the staple on the inner angle-plate projecting through a corresponding opening in the outer angle-plate, and the lock on the outer angle-plate, having a bolt entering the staple on the inner angle-plate to lock the two plates together, substantially as shown and described, and for the purpose stated.

JAMES L. FRAZIER.

Witnesses:

M. PIERCE,

WM. E. BENNETT.