C. McKEE.

DOOR FASTENER.

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1,258,234. Patented Mar. 5, 1918.

Fig. 1.

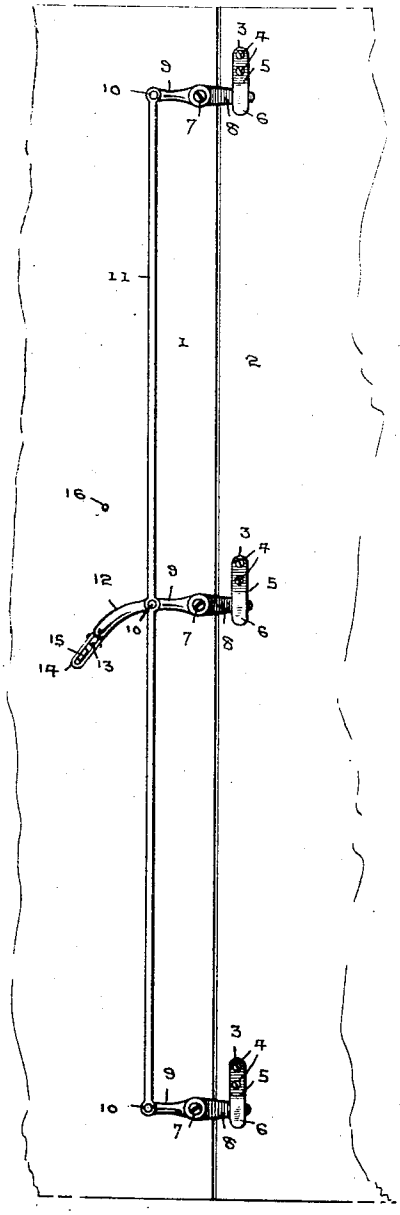
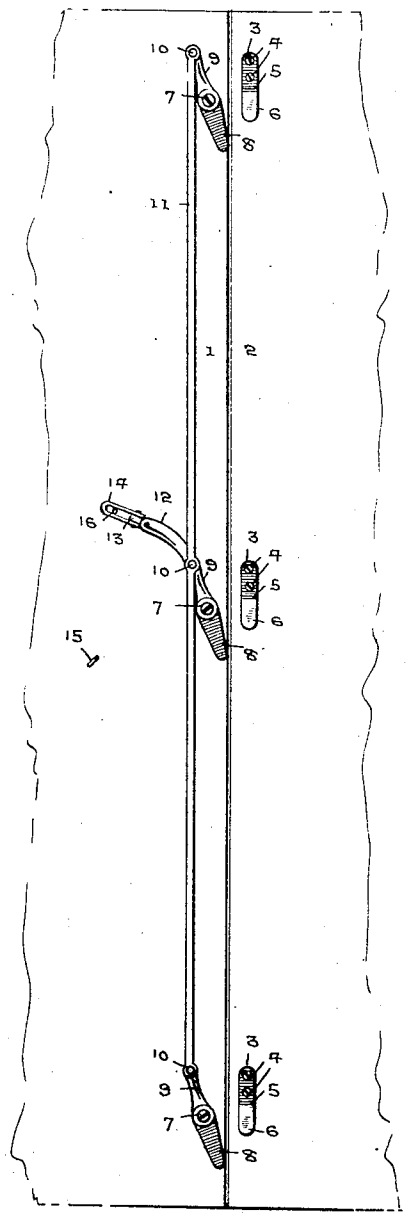


Fig. 2.



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DOOR-FASTENER.

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To all whom it may concern:

Be it known that I, CLARK McKEE, a citizen of the United States, residing at Afton, in the county of Union and State of Iowa, have invented certain new and useful Improvements in Door-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and improved door fastener, and is more particularly designed for use upon doors of barns, garages and like doors, but may be so constructed as to adapt the fastener for lighter doors or swinging windows.

One of the objects of this invention is to provide a fastener for efficiently maintaining the door in closed position and which fastener may be readily actuated to provide for the ready opening of the door.

Another object of this invention is to provide a fastener for securing a door or the like at its upper, lower, and intermediate portions whereby to prevent sagging and warping of the door.

Another object of this invention is to provide a fastener having a plurality of securing members provided with means for actuating the securing members simultaneously.

Another object of this invention is to provide a fastener consisting of few parts, simple in construction, strong and durable, efficient in operation, and which can be manufactured and sold upon the market at a nominal cost.

These and other objects and advantages will more fully appear as the nature of the invention is more clearly understood from the following description taken in connection with the accompanying drawings wherein there is disclosed one embodiment of the invention, but which is susceptible to numerous alterations and variations in the form, construction, and arrangement of the parts thereof to meet the exigencies of the case without departing from the spirit of the invention or exceeding the scope of the appended claims.

In the drawings:

Figure 1 is a side view of the meeting edges of a door jamb and a door, showing the invention in applied operative position thereon with the parts in the position which they assume when maintaining the door in closed locked position.

Fig. 2 is a similar view to Fig. 1, but showing the position which the parts assume when unlocking and preparatory to opening the door.

Referring to the drawings, wherein similar characters denote corresponding parts throughout the several views, 1 denotes the door jamb and 2 the adjacent edge portion of the door and upon this portion of the door 2 and positioned adjacent its edge are a plurality of keepers or cleats, preferably, one at the upper portion of the door, a second at a point midway between the upper and lower edges of the door, and the third at the bottom portion of the door. These keepers or cleats are formed of any suitable material and are provided with the base members 3 which are secured upon the respective portions of the door 2 by the screws 4 or other suitable securing means. The keepers or cleats are formed to provide their base members 3 with the shanks 5 disposed in right angular relation to the base members 3 and the lips or lugs 6 which are disposed at right angles from the outer edges of the shank 5 and extend in the direction from the shanks 5 opposite to the direction which the base members 3 extend, and by so constructing the keepers or cleats their lips or lugs 6 will lie in the plane outwardly of the plane of the base members 3 so that the lips, extensions or lugs 6 of the keepers or cleats will lie in spaced relation to the surface of the door 2.

Pivotally mounted upon the jamb 1 through the medium of the screws 7, or other suitable pivotal means, are the latch members 8 which register with the respective lips or lugs 6 of the keepers or cleats and designed to be readily passed beneath the lips or lugs of the keepers or cleats or in other words between the inner surface of the lips or lugs 6 and the adjacent surface of the door 2.

Upon the latch members 8 at the opposite sides of their pivotal points are the longitudinally alined actuating arms 9 having pivotally connected thereto as at 10 the universal connecting rod 11 so as to provide for the simultaneous movement of the arms 9 for swinging the latch members 8 upon their pivots 7, and for conveniently actuating the

arms 9, the central latch member 8 is provided with the operating handle 12, however, while it is preferable to provide the central arm 9 with the operating handle 12, either the upper arm 9 or the lower arm 9 may be provided with the operating handle 12 if so desired.

In addition to employing the device as a latch member, the same also provides an efficient lock for preventing the door or the like from being opened by unauthorized persons, and with this object in view I preferably form upon the free end of the handle 12 the ear 13 to which is pivotally connected the link or hasp 14 adapted to embrace the staple or other attaching means 15 upon the door jamb 2 and thereafter a suitable lock may be secured upon the staple 15 for preventing the removal of the link or hasp 14 therefrom by such unauthorized persons. While the latch members 8 will remain in the depressed or lowered position as shown in Fig. 2 of the drawings to permit opening of the door 2 and the handle 12 in elevated position under ordinary circumstances due to the fact that the pivotal points 10 are moved in proximity to the vertical plane of the pivotal points 7, however, in order to guard against the casual return of the latch members 8 which may be caused by undue vibrations and the like, the link or hasp 14 is adapted to be secured upon the pin 16 or the like upon the jamb 2 and thereby efficiently maintaining the parts in the position shown in Fig. 2 under the circumstances.

From the foregoing it will be seen that I have produced an efficient latch and lock for retaining doors and the like in closed position and while I have herein shown and described the invention as applied to a door and the door jamb with the keepers or cleats upon the door and the latch members upon the door jamb, this has been done for the sake of clearness and convenience in illustrating the invention, but the keepers or cleats may be positioned upon the door jamb and the latch members upon the door if desired, and again, the device can also readily be applied to the meeting edges of double doors, such as barn doors and the like by placing the keepers and cleats upon one of the doors and the latch members upon the other, and while the invention has been described as applied to doors the same is equally applicable to swinging windows and the like.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. The combination of a door, and a door jamb, downwardly projecting receiving members upon said door, and means upon said door jamb coacting with the downwardly projecting receiving members upon said door for maintaining said door in closed position.

2. The combination of a door, and a door jamb, a plurality of downwardly projecting receiving members upon said door, vertically swinging latch members upon said door jamb coacting with said downwardly projecting receiving members upon said door, and means for actuating said coacting means for maintaining said door in closed position.

3. The combination of a door, and a door jamb, a plurality of cleats secured upon said door, a plurality of latch members for engaging said cleats, means connecting said latch members for operating the same in unison, and a lever upon one of said latch members for simultaneously actuating said latch members for causing said latch members to engage said cleats.

4. The combination of a door, and door jamb, a plurality of cleats secured upon said door, a plurality of latch members for engaging said cleats, means connecting said latch members for operating the same in unison, a lever upon one of said latch members for simultaneously actuating said latch members for causing said latch members to engage said cleats, and means for locking said lever against movement.

5. The combination of a door, and a door jamb, a plurality of spaced cleats upon said door, a plurality of spaced pivotally mounted latch members upon said door jamb in registration with said cleats, arms upon said latch members, a rod pivoted to said arms for connecting said arms together, a lever upon one of said arms for simultaneously actuating said latch members for swinging said latch members into or out of engagement with said cleats, means for locking said lever against movement when said lever is in lowered position with said latch members engaging said cleats, and means for maintaining said lever in elevated position when said latch members are thrown out of engagement with said cleats.

In testimony whereof I have signed my name to this specification.

CLARK McKEE.