

J. MORRISON.
DOOR FASTENER.
APPLICATION FILED OCT. 4, 1912.

1,055,941.

Patented Mar. 11, 1913.

Fig. 1.

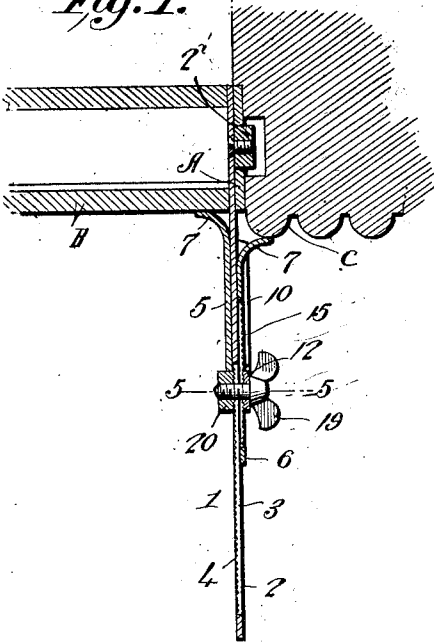


Fig. 2.

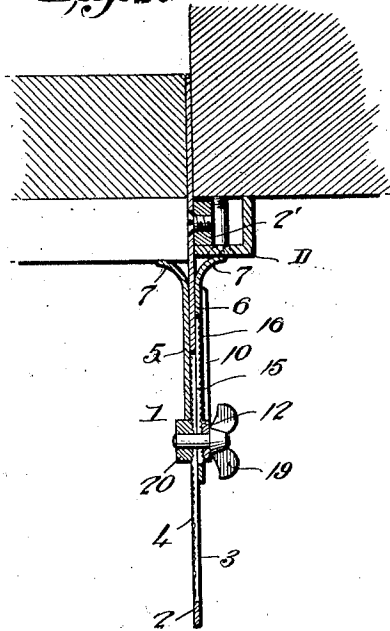


Fig. 3.

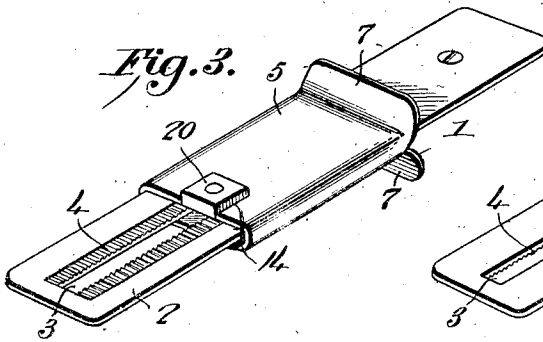


Fig. 4.

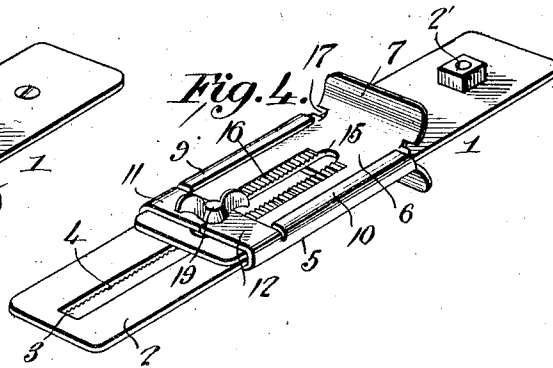
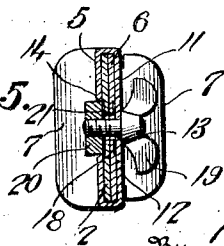


Fig. 5.



Witnesses

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DOOR-FASTENER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN MORRISON, a citizen of the United States, residing at Granby, in the county of Grand and State of Colorado, have invented new and useful Improvements in Door-Fasteners, of which the following is a specification.

The present invention relates to improvements in door fasteners.

The device is primarily intended for use by travelers temporarily occupying rooms in hotels or inns wherein the doors are generally insecurely fastened, and is adapted to serve as a means which may be easily and quickly applied between the door and the frame therefor preventing the surreptitious opening of the door from the exterior of the room.

In carrying out my invention it is my purpose to provide a simple, cheap and thoroughly effective device of this character which may be readily and quickly inserted within the latch or lock opening of the keeper and which is provided with a sliding member that is adapted to abut against the door to retain the same in a locked condition.

A further object of the invention is the provision of a device of this character which may be readily arranged upon doors provided with either mortise or rim lock, and which further provides adjustable members to engage with both the casing and the door irrespective of the space or distance between the door and the casing.

The device broadly contemplates the employment of a thin flat plate of a sufficient strength which has one of its faces formed or otherwise provided with an offset lug, the said plate adapted to be slid between the door and casing and to have its lug arranged within one of the openings of the lock keeper, when employed upon a mortise lock, or the said plate is arranged between the lock and its keeper, and the lug inserted within the said keeper when the door is provided with a rim lock. The plate is further provided with oppositely arranged adjustable members which are adapted to abut against the door and casing or against the lock and keeper, while simple but effective means are provided for retaining the said sliding members tightly in contact with the elements with which they engage.

For a full understanding of the invention, reference is to be had to the accompanying

drawings which form part of this specification and wherein—

Figure 1 is a horizontal sectional view illustrating the device in applied position upon a door and casing having a mortise lock. Fig. 2 is a similar view illustrating the device in position upon a door provided with a rim lock. Fig. 3 is a perspective view of the device. Fig. 4 is a similar view of the device but looking toward the opposite side thereof. Fig. 5 is a sectional view upon line 5—5 of Fig. 1.

Referring now to the drawings in detail, the numeral 1 designates my improved door fastener in its entirety. A fastener contemplates the employment of a thin flat plate 2 the same being formed or otherwise provided with a centrally arranged substantially rectangular lug 2'. The plate is provided with a longitudinally extending slot or opening 3, and one of the faces of the said plate is formed with depressions or teeth 4 which are arranged transversely of the elongated slot 3. Slidably mounted upon the plate 2 is a pair of oppositely arranged latch members 5 and 6 respectively. Each of the members 5 and 6 is formed upon one of its edges, and that nearest the lug 2' with an offset portion or lip 7. The member 5 has its longitudinal edges bent to provide ways 9 and 10 which pass over the longitudinal edges of the plate 2.

The member 5 has its longitudinal edges bent to provide flanges 9 and 10 which are disposed over the plate 2, but which are spaced a suitable distance away from the said plate. These flanges provide ways for the reception of the latch member 6. The flanges or ways 9 and 10 terminate a suitable distance away from the end of the member 5 opposite that provided with the lip 7, and this portion of the said member 5 is formed with a pair of spring fingers 11 and 12 which are bent to overlie the member 6 and which terminate approximately central of the said member 6. The fingers have their meeting ends each provided with a semi-cylindrical depression which forms an opening 13, and the edge of the member 5 directly opposite the opening 13 is provided with a substantially rectangular depression 14, the purpose of the depression and opening will presently be set forth.

The member 6 has its body portion formed with a centrally arranged elongated slot 15, and an outer face of the same member is

provided with teeth 16 which are arranged transversely of the said slot and which enter or communicate with the slot. The lip 7 of the said member 6 at its juncture with its body is provided with slots or openings 17, and the said member is adapted to be slid between the ways and spring fingers of the member 5, and the longitudinal movement of the said member 6 upon the plate 2 and between the ways and fingers of the plate 5 is halted, when the said plate is moved in one direction by this lip 7 contacting with the spring fingers 11 and 12. The said spring fingers preferably have their ends formed with teeth 18 which are arranged to the opposite sides of their opening 13, and passing through said opening 13 as well as through the slot 15 of the member 6 and the slot 3 of the plate 2 is a threaded stem of the thumb screw 19. The screw 19 is adapted to engage with the threaded bore of a nut 20 and this nut has its inner face serrated as at 21, and is received within the rectangular opening in the member 5 and coacts with the teeth 4 of the plate 2. It will be noted that when the nut 20 is screwed on the spring arms 11 and 12 will be compressed and the teeth provided thereon will be forced tightly into engagement with the teeth 16 of the member 6.

When the device is to be applied to the door, having a mortise lock as illustrated in Fig. 1 of the drawings, the lug 2' is inserted within one of the openings in the keeper A while the door B is swung to its open position. The members 5 and 6 are slid upon the plate the limit of the slot 4, when the door is swung to its closed position. Both of the members 5 and 6 are then slid upon the plate 2 in the opposite direction to bring their lips 7 into engagement with both the door B and the trim C of the door casing and through the medium of the thumb screw 19 effectively secure in such position. It will be apparent that when the device is so arranged it will be impossible to open the door from the exterior thereof without inflicting damage upon the door and as a result the traveler can occupy his room in perfect security.

When the device is to be applied to the door provided with a rim lock as illustrated in Fig. 2 of the drawings the lug 2' is arranged within the keeper D and after the door is swung to a closed position, the latch members 5 and 6 are slid upon the plate 2 into

engagement with both the keeper and the lug of the door.

Having thus described the invention, what is claimed as new is:—

1. A door securer for the purpose set forth embodying a flat plate having a keeper engaging lug, said plate having an elongated slot, the plate being provided with teeth arranged adjacent the slot, a sliding catch having one of its ends formed with a lip and arranged upon the plate, said catch being provided with spring arms which overlie one of the faces of the plate, the said arms having their extremities provided with teeth, a second catch member arranged upon the plate and slidably mounted between the spring arms of the first-named plate, said second catch member having an elongated slot arranged to register with the slot in the plate, the said second catch having its outer face formed with teeth adjacent its slot, a thumb screw passing through the spring arms and through the slotted openings in the catch and plate, and a nut having its inner face serrated and adapted to be engaged by the thumb screw, all substantially as and for the purpose set forth.

2. A door securer for the purpose set forth embodying a flat plate having a keeper engaging lug and being provided with an elongated slot, a sliding catch having one of its ends formed with a lip, the said catch having its longitudinal edges formed with in-turned flanges which overlie the plate and are spaced therefrom, said catch having its ends provided with spring fingers which overlie the plate and which are spaced therefrom, a second catch member provided with a lip and slidably mounted between the plate and the flanges and spring arms of the first named catch, the said second catch member being provided with an elongated slot adapted to register with the slot in the plate, a thumb screw passing through the spring arms and through the slotted openings in the catch and plate, a nut arranged within a depression in the first named catch and adapted to be engaged by the thumb screw, all substantially as and for the purpose set forth.

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

JOHN MORRISON.

Witnesses:

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C. H. NUCKOLLS.