Nov. 11, 1930. J. H. PINEO 1,780,941

DOOR FASTENER

Filed July 15, 1929

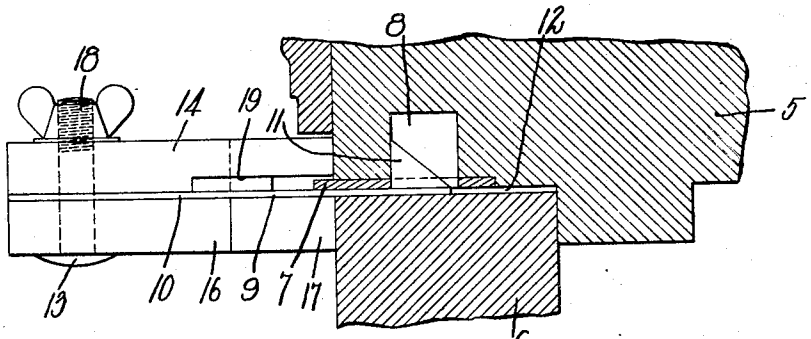


Fig. 1.

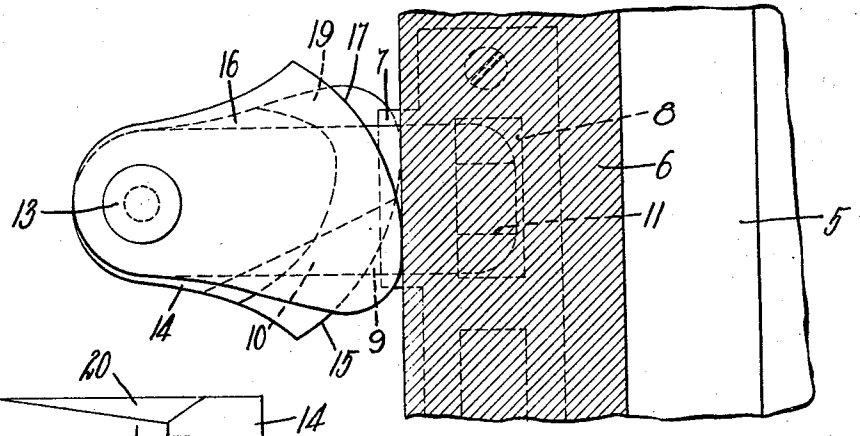


Fig. 2.

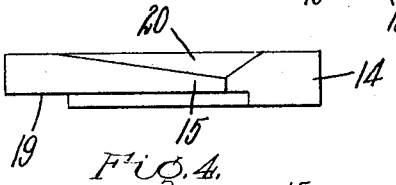


Fig. 4.

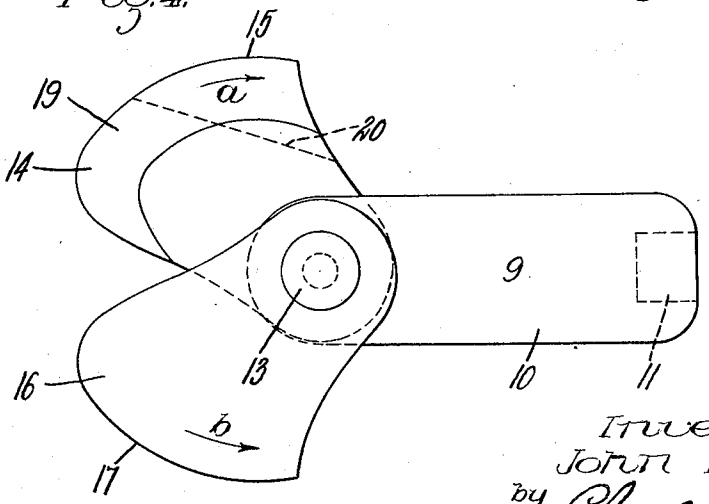


Fig. 3.

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UNITED STATES PATENT OFFICE

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DOOR FASTENER

Application filed July 15, 1929. Serial No. 378,218.

This invention relates to improvements in door fasteners and has for its object to provide a fastening device which may be employed upon doors, certain types of windows and other objects where it is desired to lock a movable member to a stationary member.

Another object of the invention is to provide a fastening device particularly adapted to be employed in locking a door to a door casing, the device being placed against the striker plate which is fast to the door casing and projecting therethrough into either of the recesses in the casing provided for the door latch or the locking bolt, and after the door has been closed, a positioning member is manipulated to hold the device normal to the door casing and a clamping member is manipulated to engage the door, after which the positioning member and clamping member are securely clamped together.

Another object of the invention is to provide a simple, inexpensive device which may be used effectively upon doors of different thicknesses and in connection with different styles and types of door casings without it being necessary to make any preliminary adjustments.

Still another object of the invention is to provide a fastening device that may be employed in addition to the usual lock that is provided upon the door or as an emergency lock when the usual lock is out of order, and which may be easily and quickly attached to the door casing and door without mutilating either the casing or the door.

The invention consists in a fastening device for doors and the like as set forth in the following specification and particularly as pointed out in the claims thereof.

Referring to the drawings:

Figure 1 is a horizontal section through a portion of a door casing and door illustrating a fastening device embodying my invention fastened to the casing and holding the door in locked position.

Fig. 2 is a front elevation of the fastening device and door casing, the door being illustrated in section and in locked position.

Fig. 3 is a front elevation of the fastening device, the positioning member and clamping member being illustrated in the positions they assume when the device is being applied to the door casing.

Fig. 4 is an edge view of the positioning member.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 5 represents a portion of a door casing, 6 a portion of a door, 7 a striker plate which is fastened in a well known manner to the door casing, and 8 is a recess in the door casing behind the striker plate, and said recess may be either the recess that is provided to receive the door latch, or that provided to receive the bolt for the usual door lock.

The fastening device of this invention embodies therein a catch 9 which consists of a flat plate 10 having a laterally projecting portion 11 rigidly secured thereto. The plate 10 is of sufficient thickness to be comparatively rigid, yet capable of being located within a space 12 that is usually provided when the door is closed between the edge of the door and the door jamb.

Pivotally mounted upon one side of the plate 10 upon a bolt 13 is a positioning member 14 which is segmental in form and is provided with a peripheral portion 15 which is eccentric to the axis of the bolt 13, and after the device has been applied to the door casing and the door has been closed, the positioning member is rotated upon the pivot or bolt 13 until some portion of the peripheral portion 15 engages the side of the door casing. The action of the positioning member 14 is to hold the plate 10 normal to the side of the door casing.

Pivotally attached to the plate 10 upon the opposite side thereof from the positioning member 14 is a clamping member 16, the bolt 13 constituting the pivot therefor. The general outline of the clamping member 16 is the same as that of the positioning member 14 and the clamping member is provided with a peripheral portion 17 which is eccentrically disposed with relation to the axis of the pivot 13. The positions, however, of the positioning member 14 and clamping member 16 are reversed upon their respective sides of the

plate 10 and the peripheral portion 15 of the member 14 is so formed that the member 14 is preferably rotated in the direction of the arrow *a*, Fig. 3, when it is moved into engagement with the door casing, while the peripheral portion 17 of the member 16 is so formed with relation to the axis 13 thereof that said member 16 is preferably moved in the direction of the arrow *b* when it is moved into engagement with the door 6.

In nearly all instances when the device has been applied to the door casing and the members 14 and 16 have been moved into engagement with the door casing and door respectively, the peripheral portion 15 of the member 14 will contact with the door casing at a point above a horizontal plane passing through the pivot 13, while the peripheral portion 17 of the member 16 will contact with the face of the door 6 at a point below the horizontal plane passing through the pivot 13.

The positioning member 14 and clamping member 16 are finally clamped to the opposite sides of the plate 10 by a thumb nut 18 which has screw-threaded engagement with the bolt 13.

The portion at one side of the positioning member 14 is cut away at 19 to prevent the contact of the positioning member with the striker plate 7 and a portion of the opposite side of said positioning member is bevelled at 20 to contact with a molding strip which is provided in certain instances as a portion of the door casing, the positioning member being rotated until said bevelled portion is wedged against the edge of the door casing.

In attaching the device to the door casing, the door 6 is first opened a sufficient amount to permit the plate 10 to be placed against the door jamb with the projection 11 projecting through the striker plate 7 into either the recess provided for the door latch, or the recess provided for the locking bolt. The door 6 is then closed, and the positioning member 14 is rocked in the direction of the arrow *a* until the peripheral portion 15 thereof engages the side of the door casing. The clamping member is then moved in the direction of the arrow *b* until the peripheral portion 17 thereof is brought into contact with the face of the door 6, after which the positioning member and clamping member are simultaneously clamped to the opposite sides of the plate 10 by means of the thumb nut 18. Any pressure that is then applied to the door 6 tending to open the same will be taken up by the clamping member 16, plate 10, projection 11 and casing 5.

I claim:

1. A fastening device for doors and the like having, in combination, a catch adapted to be inserted between a door casing and a door and project into a recess provided in said casing, a positioning member pivotally attached to the catch and provided with a peripheral portion eccentric to the axis thereof and adapted to engage the casing and hold the catch normal thereto, a clamping member of the same general contour as the positioning member and also pivotally attached to the catch and provided with a peripheral portion eccentric to the axis thereof and reversely positioned with respect to the peripheral portion of the positioning member and adapted to engage a door and prevent the latter from moving relatively to the casing, and means to clamp the positioning member and clamping member to the catch.

2. A fastening device for doors and the like having, in combination, a plate adapted to be inserted between a door casing and a door, a projection fast to said plate and adapted to be inserted in a recess provided in the casing, a positioning member pivotally attached to the plate on one side thereof and provided with a peripheral portion eccentric to the axis thereof and adapted to engage the casing and hold the plate normal thereto, a clamping member also pivotally attached to the plate upon the other side thereof and provided with a peripheral portion eccentric to the axis thereof and adapted to engage the door and prevent the latter from moving relatively to the casing, and means to clamp the positioning member and clamping member to the plate.

In testimony whereof I have hereunto set my hand.

JOHN H. PINEO.