

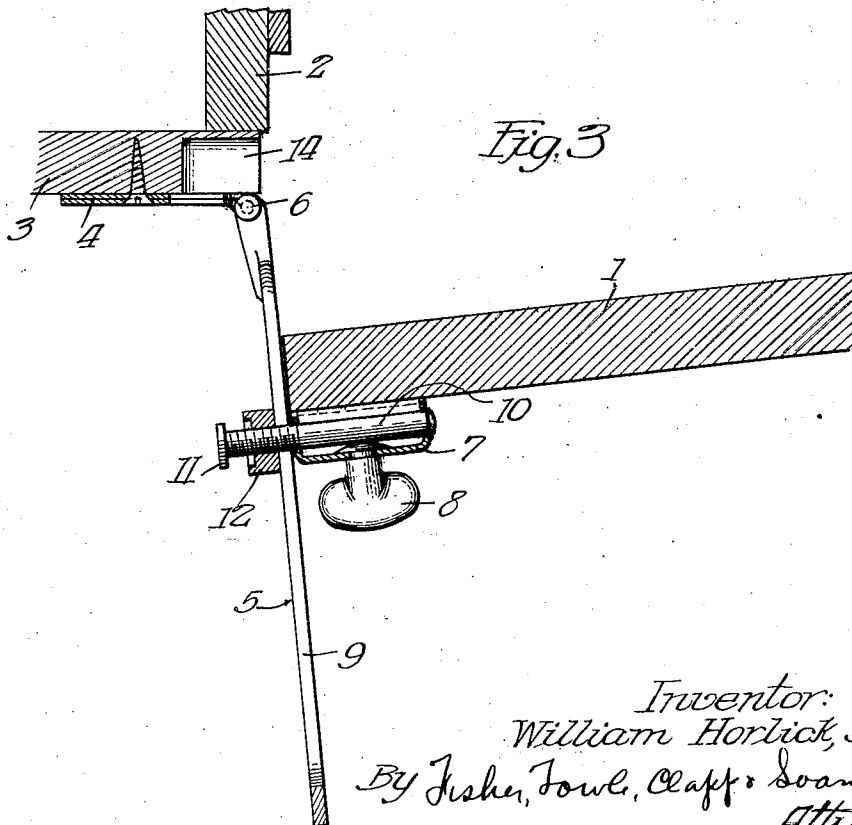
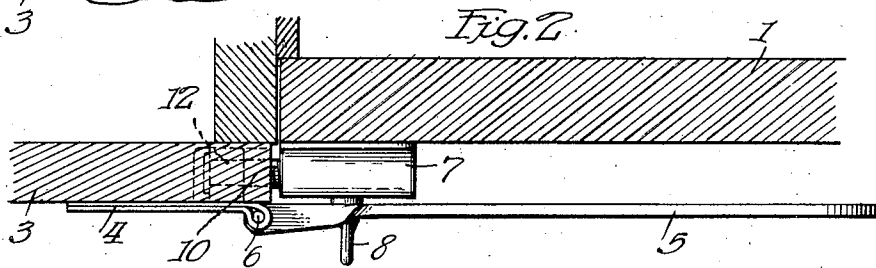
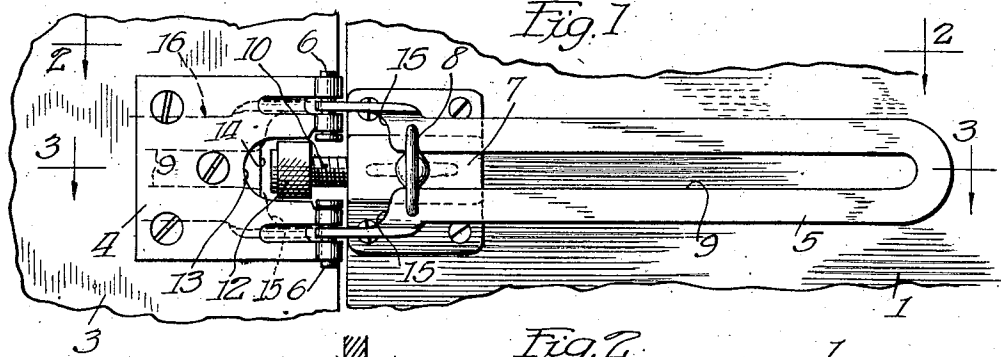
Aug. 17, 1926.

1,596,183

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DOOR FASTENER

Filed Dec. 26, 1922



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UNITED STATES PATENT OFFICE.

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DOOR FASTENER.

Application filed December 26, 1922. Serial No. 608,837.

My invention relates to door fasteners of the type wherein a member hinged on the door casing has a detachable sliding connection with the door to limit the opening movement thereof, and the present invention seeks to provide means for holding the door in various open positions within the range of opening movement permitted by the fastener.

On the drawings:

Fig. 1 represents a fragmentary portion of a door and door casing with my improved fastener applied thereto, the latter being shown in position to lock the door in the closed position;

Fig. 2 a sectional view on the line 2—2 of Fig. 1; and

Fig. 3 a view on the line 3—3 of Fig. 1, but showing the door locked or clamped in a partially open position.

Referring to the drawings, the reference numeral 1 indicates a door which is mounted in the usual manner in the door frame 2, which latter is finished with the customary door casing 3.

A bracket or plate 4 is secured to the casing 3 and has a slotted member 5 hinged thereto as at 6, so that it may swing against the edge of the door 1 when the latter is partially open as shown in Fig. 3, or over the face of the door as shown in Figs. 1 and 2, when the door is closed.

A small bracket or casing 7 is secured to the door 1 by screws or other suitable fastening, and has a wing member 8 pivoted thereon so that it may be turned to the position shown by dotted lines in Fig. 1 to pass through the slot 9 of the slotted member 5 when the door is closed, after which the wing member is turned to the full line position shown in Fig. 1, thereby locking the slotted member 5 down against the casing 7 and locking the door in the closed position.

Door fasteners of the above description which are now on the market, have a headed pin projecting from the bracket or casing 7 to engage the slot 9, and merely serve to prevent opening of the door beyond a certain limit. In my invention I have made provision so that the door may be held in any position within the range of opening movement permitted by the slot 9. To this end, I have substituted for the usual

headed stem which engages the slot 9, a threaded stem 10, which has a head 11 on the outer end of the stem, and I provide a knurled nut 12 on the thread portion of the stem, so that the latter may be advanced toward the casing 7 or withdrawn therefrom by turning the nut 12 on the stem 10. The plate 4 and the casing 3, if necessary, are cut away as indicated at 13 and 14 respectively to receive the outer portion of the stem 10 and nut 12 when the door is closed, and the inner end of the slotted member 5 is also cut away as indicated at 15, so as to afford clearance for said stem 10 and nut 12 when the slotted member 5 is turned back to the dotted line position indicated at 16 in Fig. 1.

With this construction, when the door is closed, the slotted member may be turned down in the usual manner to the position shown in Fig. 1 and locked in this position by the wing member 8, so as to lock the door in the closed position, or may be thrown back to the dotted line position 16 to permit opening and closing movement of the door without interference from the fastener.

When it is desired to permit only a partial opening of the door, the knurled nut 12 is run out to the outer end of the stem 10 to the position shown in Fig. 1 and the slotted member 5 turned up to the position shown in Fig. 3, and upon opening the door the slotted member 5 will be engaged on the stem 10 between the knurled nut 12 and the edge of the door, and the door can then be opened only a distance equal to the length of the slot 9.

If it is desired to lock the door in this partially open position or in any position within the range of the slot 9, the knurled nut 12 is turned down against the slotted member 5, so as to clamp the latter between the knurled member and the edge of the door of the side of the casing 7.

While I have shown and described my invention in a preferred form, I am aware that various changes and modifications may be made without departing from the principles of my invention, the scope of which is to be determined by the appended claim.

I claim as my invention:

In a door fastener, the combination of a bracket adapted to be secured to the door casing and having a slotted member pivoted

thereto to swing transversely across the path of movement of the door, a bracket adapted to be secured to the door and having a winged member pivoted thereto so as to interlock with the slotted member for holding the door in the closed position, a projection on the door bracket adapted to detachably engage the slot of the slotted member to limit the opening movement of the door, and a clamping member threaded on the projection to engage against the outer side of the slotted member and operable to interlock with the slotted member for holding the door in various positions within the range of opening movement permitted by the slotted member.

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