G. M. HUSTON.

DOOR SECURER.

APPLICATION FILED MAY 22, 1913.

1,073,238. Patented Sept. 16, 1913.

Fig. 1.

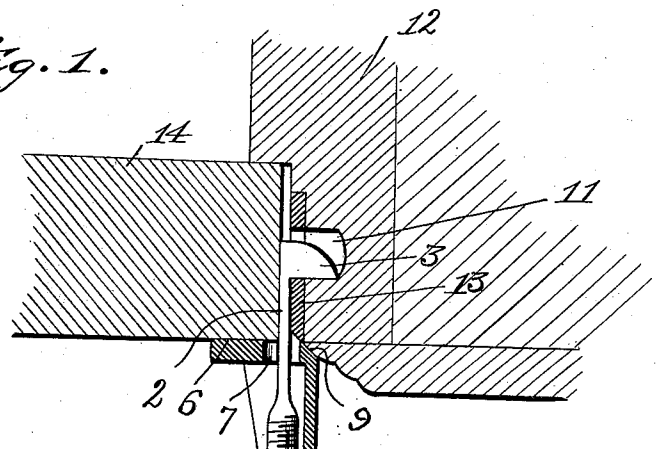


Fig. 3.

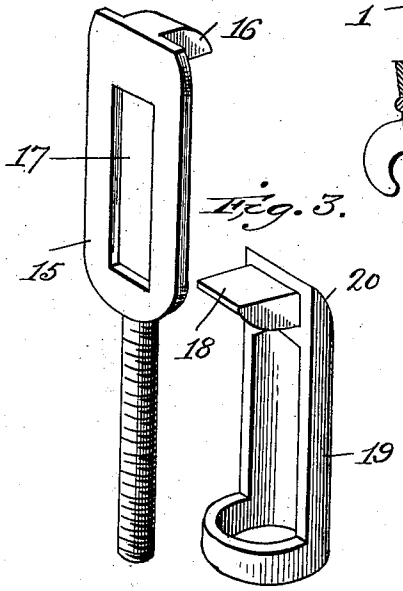
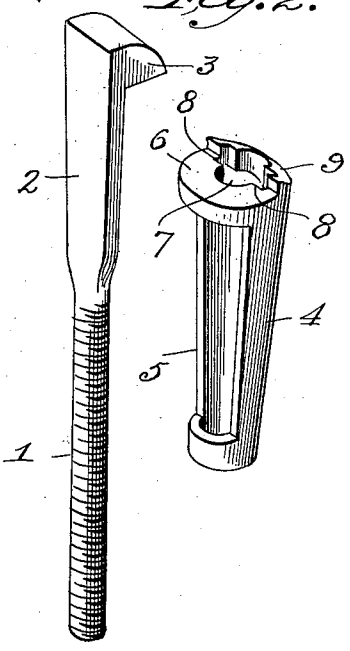


Fig. 2.



Witnesses

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DOOR-SECURER.

1,073,238. Specification of Letters Patent. Patented Sept. 16, 1913.

Application filed May 22, 1913. Serial No. 769,251.

To all whom it may concern:

Be it known that I, GEORGE M. HUSTON, a citizen of the United States, residing at New York, State of New York, have invented certain new and useful Improvements in Door-Securers; 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.

My invention relates to means for securing doors in closed position, and has for its object to provide certain improvements in the construction of the same as will be hereinafter more definitely pointed out and claimed, reference being had to the accompanying drawing, in which:—

Figure 1 is a transverse sectional view taken through a door and its frame, showing my improved device in locking position. Fig. 2 is a detail perspective view of said device with its parts separated. Fig. 3 is a view similar to Fig. 2 showing a slightly modified construction.

In the said drawing, referring more particularly to Figs. 1 and 2, the reference numeral 1 denotes the rounded threaded shank of a member having one end flattened at 2 and provided with a lateral projection or hook 3. Adapted to receive the hook member is a tapered sleeve 4, cut out at 5 on one side, and closed at its larger end at 6, said closure being provided with a circular aperture 7 of a size to receive the threaded shank 1 of the hook member, said aperture 7 being extended into oppositely disposed slots 8 conjointly of a width to receive the flattened portion 2 of the hook member. Said sleeve 4 is also formed at its larger end upon one side with an inclined face 9, for a purpose hereinafter to be described.

In use the hook member, passed through the sleeve 4 and being provided with a thumb nut 10 on its screw-threaded portion 1, has its hook 3 inserted in the latch receiving recess 11 of the door frame 12, with its flattened portion 2 lying between the lock-strike plate 13 and the door 14 when the latter is closed. Upon now screwing up the thumb nut 10 to force the sleeve 4 inward, the larger end 6 thereof, which acts as an abutment, will be forced against the side face of the door 14 to firmly retain the same in its closed position, all as seen in Fig. 1. In this adjusting movement of the device an important function is performed by the inclined face 9 on the sleeve 4, the same by its contact with the lock-strike plate 13 wedging the device against the door 14 as the sleeve 4 is screwed to locking position, thus holding the parts firmly in position. And this action occurs equally as well whether the outer end of the lock-strike plate 13 is inclined to better coöperate therewith, as it usually is constructed, in order to better coöperate with the door latch, or whether said plate 13 is straight, as is sometimes the case. An important function is also performed by the circular aperture 7 and slots 8 in the larger end 6 of the sleeve 4, as follows: When the device is being adjusted by the nut 10 to its locking position the flattened portion 2 of the hook member will register with said aperture 7 and will extend into the slots 8, thereby locking the sleeve 4 against rotation on the hook member, and as the said aperture 7 is located to one side of the end 6 and nearest the inclined face 9 the broad surface of said end 6 is maintained in operative position toward the door 14, while the inclined face 9 is also maintained in operative position with respect to the lock-strike plate 13. But when it is desired to remove the device by unscrewing the nut 10 the sleeve 4 may be slipped lengthwise of the hook member shank until aperture 7 registers with the rounded screw-threaded portion 1 thereof, whereupon the said sleeve may be rotated a half turn thereon to remove the wider portion of the end 6 from the path of the door 14 in its opening movement.

In Fig. 3 I have shown a slightly modified construction, wherein the hook member 15 carrying the hook 16 is slotted at 17 to receive an abutment 18 formed on the sleeve 19, said abutment, when the device is in locking position abutting against the side face of the door to lock the latter in closed position. Like the construction shown in Figs. 1 and 2 this sleeve 19 is also provided with an inclined face 20 to coöperate with the lock-strike plate 13 as does the inclined face 9 of the Fig. 1 construction.

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

1. A door securer, comprising a hook member adapted to be engaged with the door frame, an abutment member, means for adjusting said members to force said

abutment member against the side of the door when closed to lock the same in closed position, and an incline on one of said members adapted to contact with the door frame to force the hook member closely against the door as the parts are adjusted to locking position.

2. A door securer, comprising a hook member adapted to be engaged with the door frame, a sleeve on said hook member forming an abutment member, a nut on the threaded end of said hook member for forcing said sleeve into contact with the door when the latter is closed, and an incline on the inner end of said sleeve co-acting with the door frame to force the hook member against the edge of the door when the parts are adjusted to locking position.

3. A door securer, comprising a hook member adapted to be engaged with the door frame and having a shank flattened for a portion of its length and rounded for a portion thereof, a sleeve on said shank having an aperture in its head to receive the rounded portion of said shank, said aperture being slotted to receive the flattened portion thereof but to retain the parts against rotation, said sleeve forming an abutment member for engaging the door when closed to lock the same in closed position, and means for adjusting said sleeve on said hook member shank to locking position.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEORGE M. HUSTON.

Witnesses:
PERCY B. HILLS,
A. H. MILLS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."