No. 880,318. PATENTED FEB. 25, 1908.

L. S. MATTOX.

SASH LOCK.

APPLICATION FILED JUNE 14, 1907.

Fig. 1.

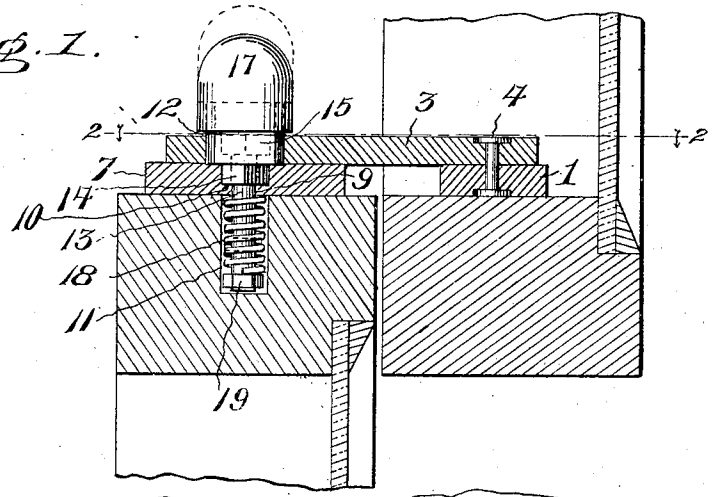


Fig. 2.

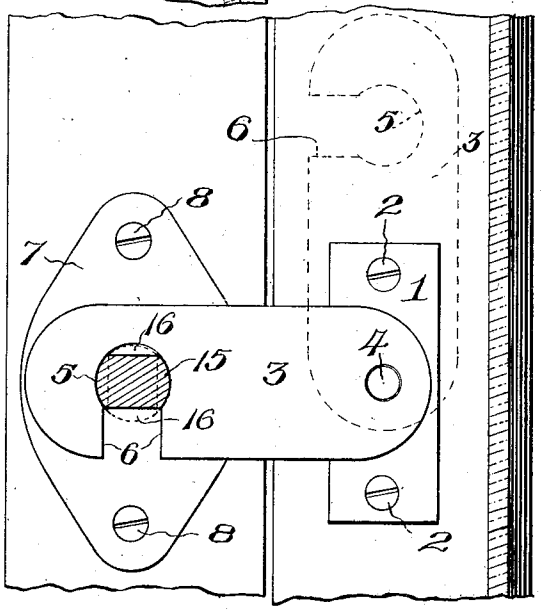
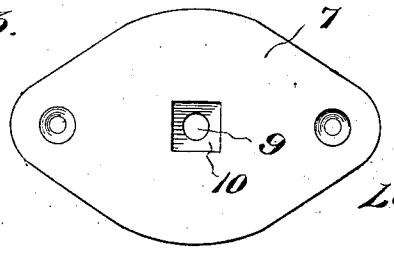


Fig. 3.



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SASH-LOCK.

No. 880,318. Specification of Letters Patent. Patented Feb. 25, 1908.

Application filed June 14, 1907. Serial No. 379,016.

To all whom it may concern:

Be it known that I, LOUIS S. MATTOX, a citizen of the United States, residing at Plainfield, in the county of Union and State of New Jersey, have invented new and useful Improvements in Sash-Locks, of which the following is a specification.

This invention is an improved locking device for blinds, doors, window-sashes, and the like and it consists in the construction, combination and arrangement of devices hereinafter described and claimed.

The object of my invention is to provide a cheap, simple and effective locking device of this character which may be readily applied to doors, blinds, sashes and the like, may be readily operated and the members of which, when secured by the bolt, are not liable to become casually detached.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of a locking device embodying my invention, showing the same attached to a pair of window sashes for securing such sashes together when the window is closed. Fig. 2 is an elevation of the same, the shank of the bolt being shown in cross section and the latch bar being shown in closed position in full lines and in open position in dotted lines. Fig. 3 is a detail elevation of the plate to which the bolt is connected.

The plate 1 may be secured, as by means of screws 2, to the bar of the window sashes or to a door, blind, frame or jamb, or other object. A latch bar 3 has one end pivotally connected, as at 4, to the said plate. The said latch-bar is provided near its free end with an opening 5 which forms the major portion of a circle and with a slot or notch 6 which extends from one side thereof and communicates with the said opening and in effect forms a narrow arm of such opening.

The plate 7, which may be secured, as by screws 8 in the same manner as the plate 1, is provided with a central opening 9 which is cylindrical in form and with a polygonal recess 10 in its outer side with which said opening communicates. The object, sash, door, blind, jamb or the like to which the plate 7 is secured, must be bored to provide a recess 11 which registers with the opening 9 and is of suitable size. A bolt 12 co-acts with the plate 7 to detachably secure the latch bar 3. Such bolt has a cylindrical stem 13 which passes through and operates in the opening 9 of the plate and extends into the recess 11, a shoulder 14 of polygonal form at the outer end of the said stem, of the size and shape to fit in the polygonal recess 10 of the plate 7, a larger shoulder 15 at the outer side of said shoulder 14 and forming a cylinder of a size to fit in the opening 5 of the latch bar 3 and flattened on opposite sides, as at 16, to provide it with a narrowed portion adapted, when the bolt is turned, to dispose such flattened sides parallel with the sides of the slot or notch 6 to enable such shouldered portion of the bolt to clear such notch or slot and hence permit the latch bar to be turned to open position, as indicated in dotted lines in Fig. 2. The said bolt is provided at its outer end with an enlarged head 17 whereby it may be readily turned. A coiled extensile spring 18 is placed on the stem of the bolt in the recess 11 and bears between the plate 7 and a stop nut 19 on said bolt 10 and serves to normally hold the bolt in the position indicated in full lines in Fig. 1 with its polygonal shoulder 14 in engagement with the recess 10 of the plate 7.

In the operation of my invention, after the latch bar has been engaged with the shoulder 15 of the bolt, the latter is turned to dispose its curved sides transversely with respect to the notch or slot 6 and in engagement with the sides of the enlarged cylindrical opening 5 of the latch bar. While thus turning the bolt, the same must be held in a slightly withdrawn position with its shoulder portion 14 out of engagement with the recess 10 of plate 7. After having been turned to the position shown in Fig. 2, the bolt is released to enable the spring 18 to move the same inwardly and cause its shoulder 14 to engage the recess 10 and coact therewith to prevent the bolt from being casually turned. To release the latch bar 3, the bolt must be withrdawn far enough to release its shoulder 14 from the recess 10 and the bolt must then be turned to disclose the flattened sides 16 of its enlarged shoulder portion 15 parallel with the slot or notch 6 to enable the bolt to be cleared by such notch or slot and enable the latch bar to be turned to the position shown in dotted lines in Fig. 2.

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

1. In a locking device of the class described, the combination with a movable latch bar having a lateral slot extending from one side thereof, and a broadened open-

ing at the inner end of such slot, of a base plate having an opening and an angular recess communicating therewith, and a bolt having a stem operated in said opening of the base plate, an angular shoulder to fit in such recess to prevent the bolt from casually turning, and an enlarged portion to fit in the opening in the latch bar and having flattened sides to clear the slot thereof.

2. The combination with a pivotally mounted latch bar having a lateral slot extending from one side thereof, and a broadened opening at the inner end of such slot, of a base plate having an opening and an angular recess communicating therewith, a bolt having a stem operated in said opening, an angular shoulder to fit in such recess to prevent the bolt from casually turning, and an enlarged portion to fit in the said opening in the latch bar and having flattened sides to clear the slot thereof, and a spring to normally keep the said shoulder of the bolt in engagement with the angular recess of such base plate.

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

LOUIS S. MATTOX.

Witnesses:
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