July 17, 1928. 1,677,825

A. M. HILTY

SASH FASTENER

Filed Nov. 30, 1927 2 Sheets-Sheet 1

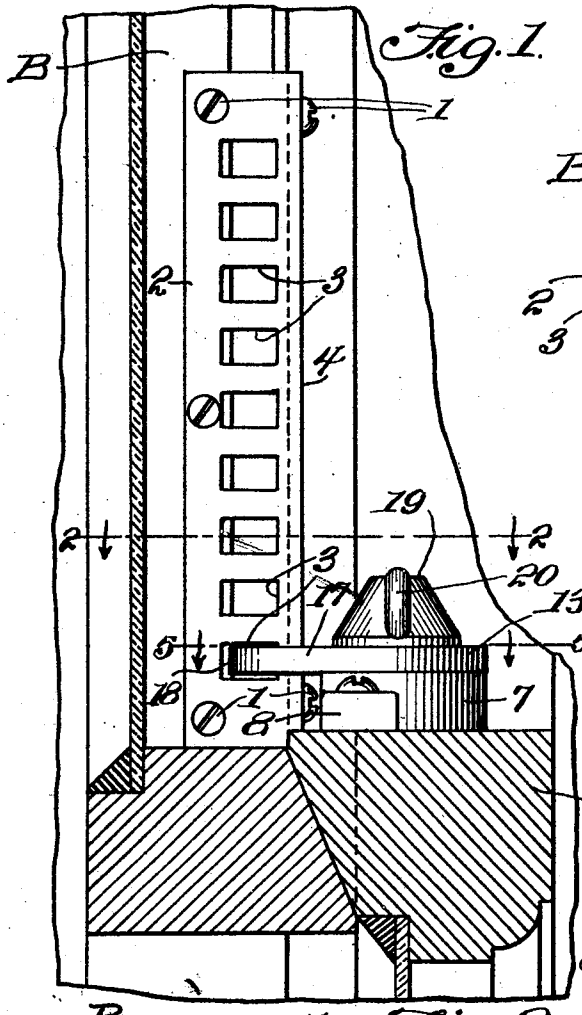


Fig. 1.

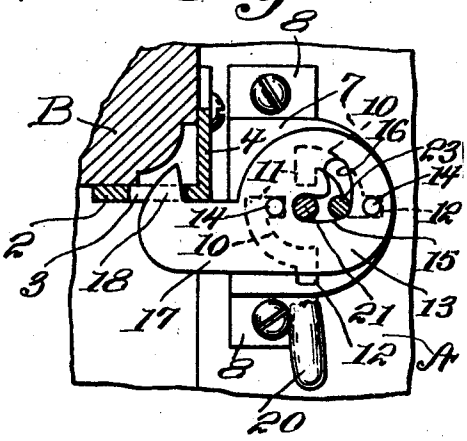


Fig. 5.

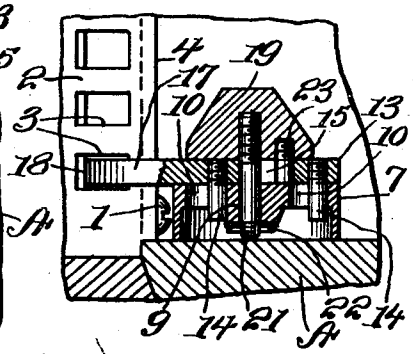


Fig. 3.

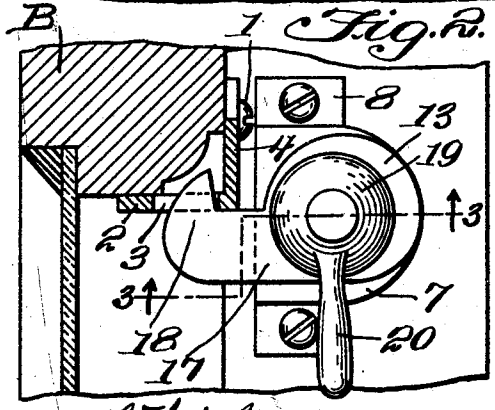


Fig. 2.

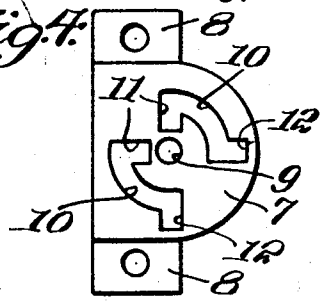


Fig. 4.

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Fig. 6.

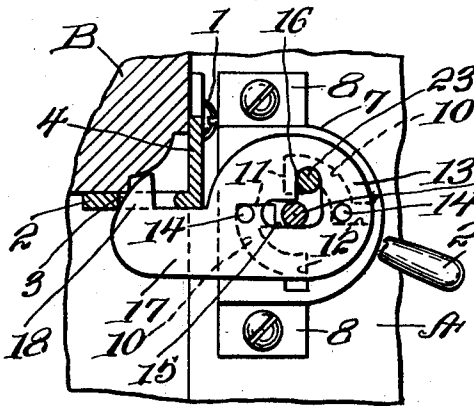


Fig. 8.

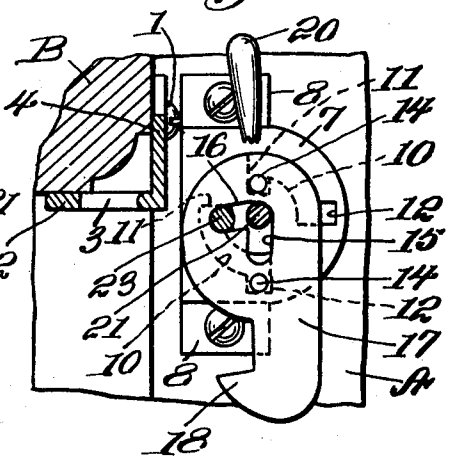


Fig. 7.

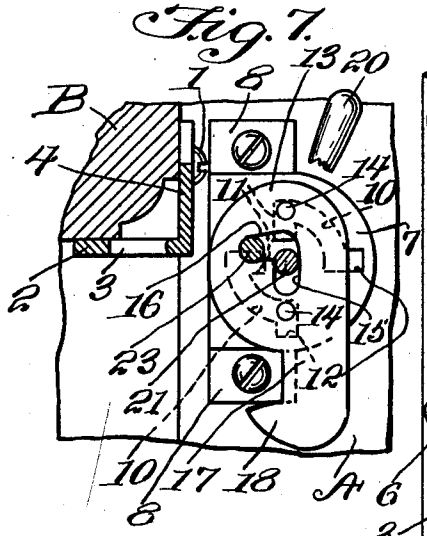


Fig. 9.

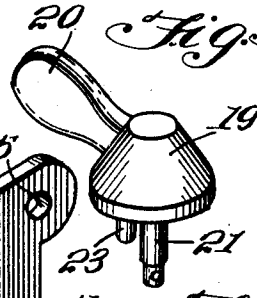


Fig. 11.

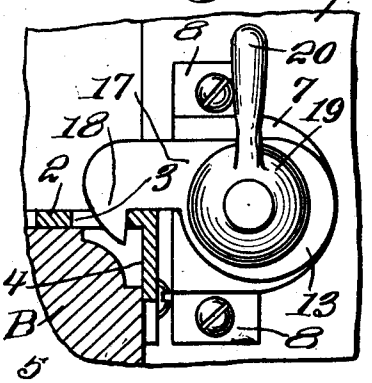
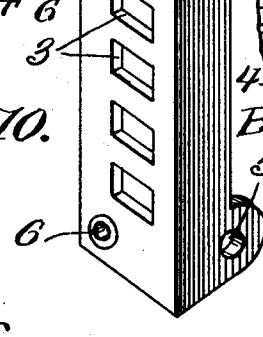


Fig. 10.



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UNITED STATES PATENT OFFICE.

ALPHEUS M. HILTY, OF McKEESPORT, PENNSYLVANIA.

SASH FASTENER.

Application filed November 30, 1927. Serial No. 236,802.

This invention relates to sash fasteners, and its general object is to provide a fastener for vertically mounted sliding window sashes, that not only latch the windows in closed position, but will also latch the windows in open position to provide for ventilation, yet the windows cannot be moved unless the fastener is unlatched and the fastener cannot be actuated except by its operating lever regardless of the position of the windows.

A further object of the invention is to provide a sash fastener that can only be actuated by its operating lever.

Another object of the invention is to provide a sash fastener of the character set forth, that is simple in construction, inexpensive to manufacture, and efficient in operation and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a fragmentary sectional view showing the sash fastener forming the subject matter of the present invention applied to the sash of cooperating windows and the fastener in latched position.

Figure 2 is a sectional view taken approximately on line 2—2 of Figure 1, looking in the direction of the arrows, and showing the fastener applied to the right hand side of the window.

Figure 3 is a sectional view taken approximately on line 3—3 of Figure 2, looking in the direction of the arrows.

Figure 4 is a plan view of the base plate for the fastener.

Figure 5 is a sectional view taken approximately on line 5—5 of Figure 1, looking in the direction of the arrows and showing the parts latched in closed position.

Figure 6 is a view similar to Figure 5 with the parts unlatched in closed position.

Figure 7 is a similar view with the parts unlatched in open position.

Figure 8 is a similar view with the parts latched in open position.

Figure 9 is a perspective view of the operating lever.

Figure 10 is a similar view of the keeper member.

Figure 11 is a view similar to Figure 2 with the fastener applied to the left hand side of the window.

Referring to the drawings in detail, the letter A indicates the upper rail of a lower sash of a window, and B one side rail of the upper sash, which has vertically secured thereto by screws 1 a keeper member in the nature of a rack which includes a plate 2 having a plurality of slots 3 arranged in row formation therein as best shown in Figure 10 of the drawings. While a single sash fastener may be employed, it is obvious that they may be used in pairs with one arranged at each side of the sash. The keeper member also includes a plate 4 having apertured ears formed at the ends thereof, and the apertures 5 thereof cooperate with the apertures 6 formed in the plate 2 for receiving the screws 1 for securing the keeper member in operative position on the upper sash in a manner whereby a considerable space is provided between the corner bead of the side rail and the keeper member as best shown in Figure 2. Secured to the upper rail of the lower sash is the base plate 7 of the fastener, and this base plate is substantially hollow and provided with a relatively large body having extending in opposed relations therefrom hollow ears 8 formed with openings to accommodate screws for securing the base plate in fixed position. The body of the base plate has centrally formed therein a bearing opening 9 and disposed upon opposite sides of the bearing opening 9 are curved slots 10 which terminate at their ends into straight slots 11 and 12 respectively. The slots 11 extend toward the bearing opening 9, while the slots 12 extend outwardly therefrom, as best shown in Figure 4 of the drawings.

Mounted for slidable movement on the body of the base plate is a latch member 13 of the fastener which has depending therefrom in spaced relation a pair of pins 14 disposed for movement in the respective slots 10, 11 and 12. The latch member has formed therein a substantially L-shape slot 15 with the arm 16 thereof being substantially curved upon itself as best shown in Figure 7 of the drawings, and the latch member also includes a shank 17 having

formed on its free end a projection 18 to provide a hook as will be readily apparent.

The latch member is operated through the instrumentality of a lever which includes a body 19 and a handle 20. Depending centrally from the body 19 is a shaft 21 which passes through the L-shaped slot and bearing opening 9 and is secured for rotary movement in the bearing opening 9 by a cotter pin 22. Secured to the bottom of the body 19 and arranged in spaced relation with respect to the shaft 21 is a pin 23 disposed in the L-shaped slot for the purpose of operating the latch member in a manner which will be presently apparent.

From the above description and disclosure of the drawings, it will be obvious that I have provided a sash fastener that will latch a window in closed and open positions, and the fastener can only be operated through the medium of the handle 20 which when disposed in the position as shown in Figure 5, the fastener is latched in closed position, with the pins 14 in one of the slots 11 and one of the slots 12. When the handle is moved to the position as shown in Figure 6, the pins are moved out of the said slots 11 and 12 for disposal in the slots 10 and the latch member is then unlocked but the hook is secured in one of the slots 3 of the keeper member. In other words, the sash member is still in closed position as shown in Figure 5. Further movement of the handle to a position as shown in Figure 7 will arrange the pins 14 at the opposite ends of the curved slots 10 whereby they can be moved into the opposite slots 11 and 12 as shown in Figure 8, and when the latch member is arranged as shown in Figure 8, it will be latched in open position.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the constructioin and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:

1. A sash fastener of the character described comprising a keeper member, a base plate formed with slots, a latch member mounted for rotary and slidable movement on said base plate, an operating handle, means secured to said operating handle and arranged in said latch member for moving the same, and means depending from said latch member and movable in said slots for locking the latch member in open and closed positions.

2. A sash fastener of the character described comprising a keeper member provided with a plurality of slots arranged in row formation, said keeper member being adapted to be secured to the upper sash of a window and arranged vertically thereon, a base plate provided with slots and being secured to the lower sash of said window, a latch member, an operating lever, means secured to said operating lever for moving the latch member, and means depending from said latch member and arranged in the slots of the base plate for securing the latch member in one of the slots of the keeper member, and also for securing the latch member in open position.

3. A sash fastener of the character described comprising a keeper member including a slotted plate, means for securing said plate to the corner of the upper sash of a window and in vertical position thereon, a base plate secured to the lower sash and being formed with slots, a latch member including a hook and being provided with a substantially L-shaped slot, an operating lever securing the latch member for slidable movement on the base plate, means carried by the operating lever for moving the latch member, and pins depending from the latch member and being received in the slots of the base plate for securing the latch member in one of the slots of the keeper, and also for securing the latch member in open position.

4. A sash fastener of the character described comprising a keeper, a pair of plates secured together and arranged at right angles with respect to each other, apertured ears formed with one of said plates, means arranged in said apertures and apertures of the other plate for securing the keeper member to the upper sash of a window, the other of said plates being provided with spaced slots, a base plate secured to the lower sash and being provided with slots, a latch member including a hook engageable in any one of the slots of the keeper member, an operating lever for moving said latch member, and means depending from said latch member and arranged in the slots of the base plate for securing said latch member in open position and the hook in one of the slots of the keeper member when the latch member is in closed position.

In testimony whereof I affix my signature.

ALPHEUS M. HILTY.