

No. 857,322.

PATENTED JUNE 18, 1907.

A. O. BAKER.
SASH FASTENER.

APPLICATION FILED JUNE 23, 1906.

Fig. 1.

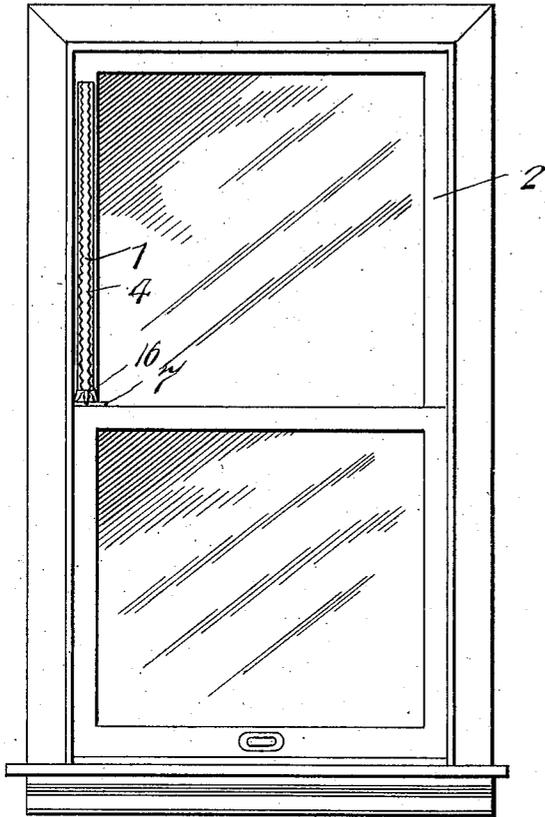


Fig. 5.



Fig. 2.

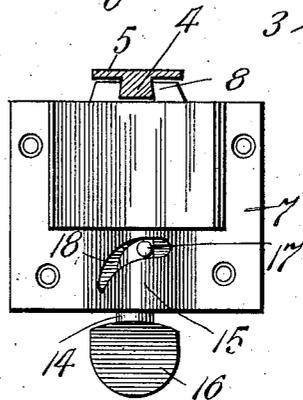


Fig. 4.

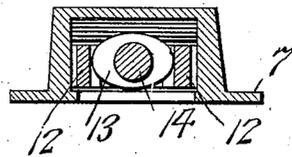
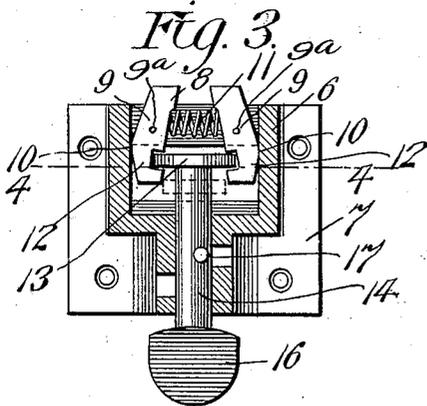


Fig. 3.



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SASH-FASTENER.

No. 857,322.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ABRAM O. BAKER, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented new and useful Improvements in Sash-Fasteners, of which the following is a specification.

This invention relates to improvements in sash fasteners, the main object of the invention being to provide a simple and efficient construction of fastener whereby either sash may be locked in a partially open position and both sashes locked in a fully closed position, and whereby either sash may also be opened to any desired degree for ventilation and fastened in such position to prevent the sash from being opened to a further extent by burglars or unauthorized persons.

A further object of the invention is to provide a fastener which, when released, will permit either sash to be adjusted without resistance.

In the accompanying drawings: Figure 1 is a face view of a window frame and sashes equipped with my invention, the sashes being shown in closed position. Fig. 2 is a plan view of the lock casing and a horizontal section through the rack. Fig. 3 is a horizontal section through the lock casing detached from the sash. Fig. 4 is a vertical section on line 4-4 of Fig. 3. Fig. 5 is a face view of the rack.

In accordance with my invention, a rack 1 is secured upon the face of one of the side rails of the upper sash 2, the rack being provided with opposite sets of substantially V-shaped teeth 3 formed upon the sides of a rib 4 carried by a base plate 5 suitably perforated for the passage of screws or other fastenings to secure the rack to the sash.

Upon the upper rail of the lower sash 3 is mounted a casing 6 provided with a flanged base 7 having openings for the passage of suitable fastenings to secure it to said rail, said casing being arranged in line with and having an open side facing the rack 1. Through this open side of the rack project the rack engaging ends 8 of a pair of locking dogs 9, which are intermediately pivoted upon pins 9^a and provided with fulcrum portions 10 arranged to rock against the side walls of the casing, a spiral spring 11 being disposed between the portions 8 to normally hold them spread apart and out of engagement with the teeth of the rack.

The rear ends or operating portions 12 of

the dogs are formed in their inner edges with notches for the reception of a head 13 on an operating key or stem 14 journaled in a bearing boss 15 arranged at the front of the casing 6, said key being provided at its outer end with a suitable finger piece 16. The head 13 is of oval or elliptical form and acts in the nature of a cam upon the portions 12 of the dogs to permit the jaws 8 to be spread apart by the action of the spring or to force said dogs inward against the resistance of the spring. A lug or pin 17 carried by the key or stem is arranged to fit and move in a cam slot 18 formed in the bearing boss 15, whereby a turning movement of said stem in one direction or the other will cause the stem to be moved by the action of the pin and slot longitudinally in a forward or rearward direction. When the key is turned to the right it is forced forward by the action of the pin and guide slot until the head 13 comes into alinement with the notches in the operating arms 12 of the dogs, such movement of the stem bringing the head 13 with its major axis in a horizontal plane so that the extremities thereof will seat in the notches and exert pressure upon the portions 12 of the dogs to throw the jaws 8 into locking engagement with the teeth of the rack 1, the latter being so formed that when the jaws are out of engagement therewith the sash 3 may be adjusted up or down without interference. When the key 14 is turned to the left the narrow portion of the head 13 will come between the portions 12 of the dogs and release the head therefrom, so that the stem may be drawn rearwardly by the action of the pin and the cam slot, leaving the dogs free to be retracted by the spring 11.

By the construction described it will be seen that the lower sash 3 may be opened to any desired degree for ventilation and locked to the sash 2, so that said sash 3 cannot be opened to any greater extent by an unauthorized person from without. When the upper sash 2 is movably mounted in the window frame, said sash may be adjusted and locked in like manner and both sashes may be opened to a desired extent and locked against relative movement.

Having thus described my invention, what I claim is:

1. In a sash fastener, the combination of a rack provided with opposite sets of locking teeth, a lock casing, rocking dogs in said casing adapted to engage said teeth, a spring

arranged to retract the dogs, and an oscillating stem having a cam head to project the jaws against the pressure of the spring.

2. A sash fastener comprising a rack having opposite sets of teeth, a casing, rocking pawls fulcrumed within the casing and having their forward ends projecting therefrom to engage the teeth, a spring arranged between the pawls to normally force the engaging ends thereof apart, the rear ends of the pawls being provided with notches, and an oscillating stem having a cam head adapted to engage the notched ends of the pawls to force the engaging ends thereof into locking position against the pressure of said spring.

3. In a sash fastener, the combination with sashes, of a rack upon one of the sashes, a casing upon the other sash, spring retracted dogs in said casing, an oscillating stem having a cam head for engaging and controlling the action of the dogs, and means for imparting an endwise movement to said stem to adjust the head into and out of operative position.

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

ABRAM O. BAKER.

Witnesses:

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J. B. HOFFMAN.