

J. W. WATTS.
VENTILATING SASH LOCK.
APPLICATION FILED NOV. 24, 1913.

1,092,234.

Patented Apr. 7, 1914.

Fig. 1.

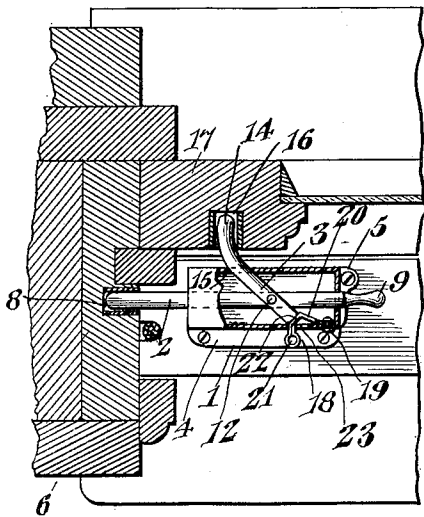


Fig. 2.

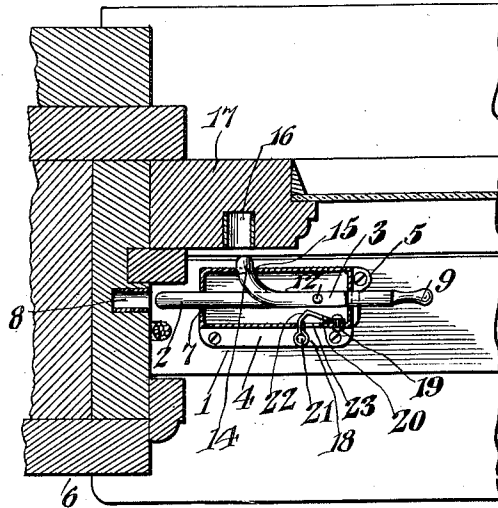


Fig. 3.

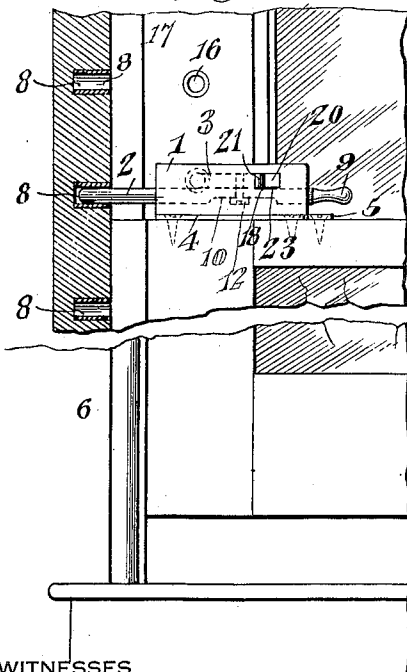


Fig. 4.

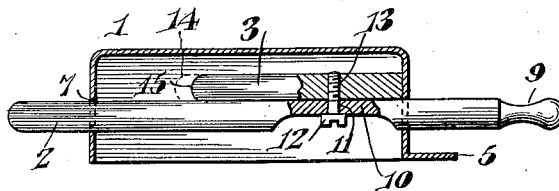
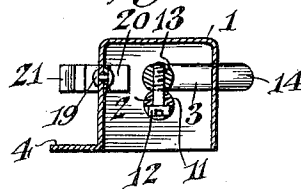


Fig. 5.



WITNESSES

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VENTILATING SASH-LOCK.

1,092,234.

Specification of Letters Patent.

Patented Apr. 7, 1914.

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To all whom it may concern:

Be it known that I, JOHN W. WATTS, a citizen of the United States, residing at Paducah, in the county of McCracken and State of Kentucky, have invented a new and useful Ventilating Sash-Lock, of which the following is a specification.

The invention relates to improvements in sash locks.

10 The object of the present invention is to improve the construction of sash locks, and to provide a simple, inexpensive and efficient sash lock of strong and durable construction, adapted to securely fasten the upper and lower sashes of a window in either a closed or open position, and capable of effectually preventing the sashes from being surreptitiously raised or lowered from the exterior of the window by an ordinary instrument.

20 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims here-
25 to appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

30 In the drawing: Figure 1 is a horizontal sectional view of a portion of a window provided with a ventilating sash lock, constructed in accordance with this invention, the sashes being locked. Fig. 2 is a similar view, the sashes being unlocked. Fig. 3 is an elevation partly in section, showing a portion of the window and the sash lock. Fig. 4 is a longitudinal sectional view of the sash lock. Fig. 5 is a transverse sectional view of the same.

35 Like numerals of reference designate corresponding parts in all the figures of the drawing.

40 In the accompanying drawing in which is illustrated the preferred embodiment of the invention, the ventilating sash lock comprises in its construction a casing 1, a longitudinally slidable bolt 2 and a laterally movable pivoted bolt 3.

The lock may be constructed of any suit-

able material, and the casing is composed of a top and side and end walls, the bottom being open and the casing being provided thereat with attaching flanges 4 and 5, secured by screws or other suitable fastening devices to the upper edge of the lower sash adjacent to one side of the window frame 6. The casing, which is substantially oblong, is provided in its end walls with aligned openings 7, forming guides for the longitudinally slidable bolt 2, which is adapted to be moved outwardly to engage it with any one of a series of straight horizontal sockets 8, formed in the adjacent side of the window frame and preferably lined with metal, as shown, but any other form of socket may, of course, be employed. The bolt 2, which is preferably round, as shown, is shaped at its inner or rear end to form a grip or handle 9, and it is flattened at an intermediate point at 10 and provided thereat with a perforation 11 for the reception of a screw 12, engaging a threaded perforation 13 in the bolt 3 and pivotally connecting the same to the longitudinally slidable bolt 2. Any other suitable pivot may be employed, and the perforation 13 is located at a point intermediate of the ends of the pivoted bolt 3, which has a straight inner portion and a curved outer portion 14, adapted to be projected outwardly through a lateral opening 15 in the outer side of the casing 1 to engage it with any one of a plurality of straight horizontally disposed sockets 16, formed in the adjacent side of the upper sash 17 and preferably metal lined, as shown. When the bolt 2 is moved outwardly it carries with it the pivoted bolt 3, which is simultaneously projected from the outer side of the casing. This operation partially oscillates the bolt 3 and swings its inner straight portion from a position in alinement with the bolt 2, as shown in Fig. 2 of the drawing, to a position at an angle to the same, as illustrated in Fig. 1 of the drawing.

45 The bolts are locked in their extended engaging position by a substantially L-shaped spring 18, secured at one end to the inner face of one of the inner side walls of the casing by a rivet 19, or other suitable fastening device and consisting of an inner longitudinally disposed portion 20, an outer

transversely disposed handle portion 21 and an intermediate portion 22, arranged at substantially right angles to the inner portion and occupying approximately a diagonal position when the spring is in its normal position. The inner longitudinally disposed portion 20 is arranged at an acute angle to the inner side of the casing, which is provided with a slot 23 through which passes the outer handle portion of the spring. The spring forms an abutment and is yieldable in one direction, viz., laterally of the sash lock to permit the inner end of the pivoted bolt to slide readily past it in the outward or locking movement of the bolts, and the intermediate portion of the spring is adapted to engage with the inner end of the pivoted bolt 3 and form a stop for locking the bolts against inward movement in a direction longitudinally of the sash.

The spring is automatic in its operation and engages the inner or rear end of the laterally projecting bolt when the bolts are moved into engagement with a socket of the window frame and the upper sash. When it is desired to unlock the sashes, it is necessary to grasp the handle portion of the spring with one hand, pull the spring outward and simultaneously grasp the rear end of the bolt and slide the latter inwardly or rearwardly. The substantially smooth character of the inner grip or handle portion 9 of the bolt and the operation of the spring effectually prevent the sash lock from being operated by a stick or other instrument when either the lower sash is raised, or the upper sash is lowered a sufficient distance to permit the arm of a person to be passed through the window.

The sash lock, which presents a neat appearance, is adapted to securely fasten the upper and lower sashes at any adjustment, and when the bolts are withdrawn from engagement with the sashes, they will remain in a retracted position and permit free movement of the sashes, the spring operating to prevent any accidental movement of the bolts. The ventilating sash lock is designed to be constructed right and left so as to operate at the right hand side and the left hand side of a window.

What is claimed is:—

1. A sash lock of the class described including a longitudinally slidable bolt, a laterally movable bolt pivotally connected to the longitudinally slidable bolt at a point intermediate of the ends thereof and carried by the same, means for guiding the bolts in their inward and outward movements, and means arranged in the path of and adapted to engage the inner end of the laterally movable bolt for locking the bolts in their engaged positions.

2. A sash lock of the class described including a longitudinally slidable bolt, a lat-

erally movable bolt pivotally connected to the longitudinally slidable bolt at a point intermediate of the ends thereof and carried by the same, means for guiding the bolts in their inward and outward movements, and an abutment arranged in the path of the inner end of the pivoted bolt and yieldable in one direction to permit an outward movement of the said bolts and forming a stop for engaging the inner end of the said pivoted bolt for maintaining the bolts in their engaging positions.

3. A sash lock of the class described including a longitudinally slidable bolt, a laterally movable bolt pivotally connected to the longitudinally slidable bolt at a point intermediate of the ends thereof and carried by the same, means for guiding the bolts in their inward and outward movements, and a spring secured at one end and consisting of a longitudinally disposed portion arranged at an angle to the slidable bolt and an outwardly extending portion disposed in substantially a transverse position with relation to the said slidable bolt and arranged to engage with the inner end of the pivoted bolt for locking the bolts in their engaging positions.

4. A sash lock of the class described including a casing provided with oppositely alined openings and having a lateral opening, a slidable bolt guided in the alined openings, a pivoted bolt connected with and carried by the slidable bolt and arranged to be projected through the lateral opening of the casing, and a spring secured within the casing and having a portion arranged in the path of and adapted to engage with the inner end of the pivoted bolt, said spring having a free handle portion extending through the casing.

5. A sash lock of the class described including a slidable bolt, an oscillatory bolt pivoted at a point intermediate of its ends to the slidable bolt at a point between the ends thereof, the inner portion of the oscillatory bolt being in substantial alinement with the slidable bolt when the bolts are retracted and being carried to a position at an angle to the slidable bolt when the bolts are moved outwardly to their engaging position, and means arranged in the path of the inner projecting portion of the pivoted bolt for locking the bolts in their engaging positions.

6. A sash lock of the class described including a slidable bolt, an oscillatory bolt having a curved outer portion and a substantially straight inner portion, said oscillatory bolt being pivoted at a point intermediate of its ends to the slidable bolt at a point between the ends thereof, the inner portion of the oscillatory bolt being in substantial alinement with the slidable bolt when at the limit of its inward movement and being

swung to a position at an angle to the slid-
able bolt when the bolts are carried to their
engaging positions, and means arranged in
the path of the inner portion of the oscil-
latory bolt for engaging with the same to
lock the bolts in their engaging positions.

In testimony that I claim the foregoing

as my own, I have hereto affixed my signa-
ture in the presence of two witnesses.

JOHN W. WATTS.

Witnesses:

GUY NANCE,

BUTLER H. MARLONE.

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