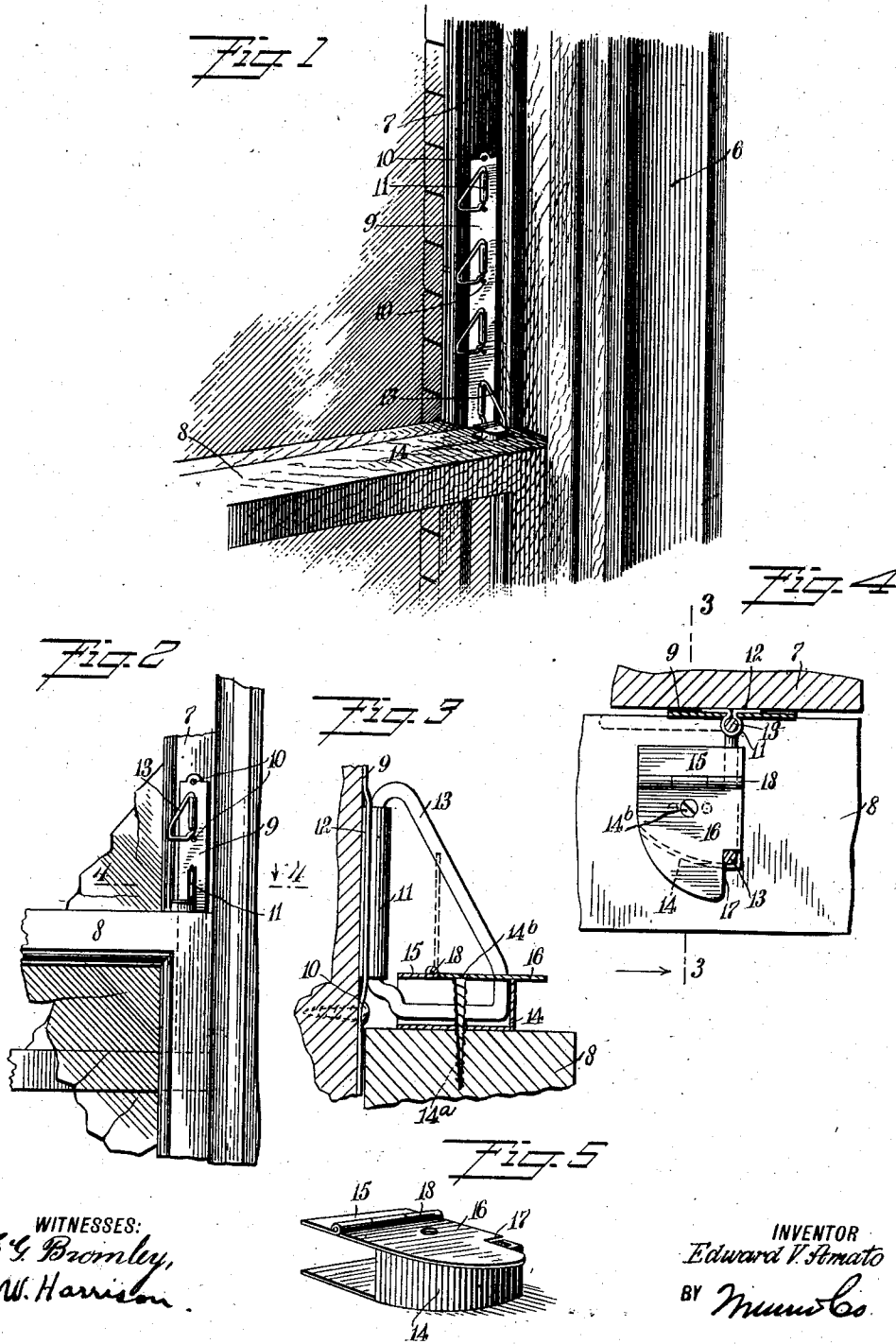


E. V. AMATO.
SAFETY WINDOW LOCK.
APPLICATION FILED JAN. 26, 1910.

994,556.

Patented June 6, 1911.



WITNESSES:
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EDWARD V. AMATO, OF NEW YORK, N. Y.

SAFETY WINDOW-LOCK.

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Specification of Letters Patent.

Patented June 6, 1911.

Application filed January 26, 1910. Serial No. 540,124.

To all whom it may concern:

Be it known that I, EDWARD V. AMATO, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Safety Window-Lock, of which the following is a full, clear, and exact description.

My invention relates to window sash fasteners, my more particular purpose being to provide a type of such fastener suitable for securing the sash when the window is entirely closed or left partially open for ventilation.

My device is simple and may be cheaply constructed and easily operated.

More particularly stated, I provide a plate located upon one sash and carrying a number of pawls, each forming a practically closed loop, and I further provide a locking member having the form of a casing and adapted to be located upon the other sash, and also having means for engaging any one of the pawls; I also provide means for holding the pawl in positive engagement with the casing.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective showing a window having sashes provided with my improved sash fastener; Fig. 2 is a fragmentary elevation showing the device as used upon a window, the sashes of which, however, are in different positions from those of Fig. 1; Fig. 3 is a detail section on the line 3-3 of Fig. 4, looking in the direction of the arrow, and showing one of my improved pawls and the lock associated therewith; Fig. 4 is a section on the line 4-4 of Fig. 2, looking in the direction of the arrow, and showing details of the lock; and Fig. 5 is a perspective of the lock forming a part of the fastener.

At 6 is a window which is provided with movable upper and lower sashes 7 and 8. A plate 9 is secured rigidly upon the upper sash 7 by aid of screws 10, or equivalent fastenings. A number of bearings 11 are mounted upon the plate 9, these bearings being made of sheet metal bent upon itself and provided with wings 12 which extend through the plate 9 and project in opposite directions. Each bearing 11 supports a

pawl 13 which is made of resilient heavy wire bent into a substantially closed loop of a generally triangular form, as will be understood from Fig. 3.

At 14 is the lock casing having generally the form of a box, a portion of the outer periphery of the same being rounded, as indicated by dotted lines in Fig. 4 and by full lines in Fig. 5, the curvature of the portion of the box just referred to corresponding to the path of travel of the outermost portions of the pawls 13. That is to say, as each pawl is turned within its bearing 11, the outermost portion of the pawl describes a path which is inside of the curved outer portion of the casing 14.

The casing 14 is provided with a top portion 15 rigid relatively to it and connected with this rigid top portion by aid of a hinge 18 is a lid 16. This lid is provided with an opening 17 and may be swung up or down, as desired. A screw 14^a provided with a head 14^b is used for securing the lid of the casing in fixed position whenever desired. When the screw is in position, as indicated in Fig. 3, the head 14^b engages the lid 16 directly, the shank of the screw extending downwardly through the bottom of the casing and into the lower sash 8.

The operation of my device is as follows: The pawl 13 may be folded back against the plate 9 and when in this position either or both of the sashes may be moved freely. Any one of the pawls, however, may be swung outwardly so as to cross the top of the lower sash. This is the case in Fig. 1, with the lowermost of the pawls. The lid 16 being raised, the upper and lower sashes may be adjusted relatively to each other so that the bottom portion of a pawl may be swung into the casing 14. The lid 16 is now closed, the resiliency of the pawl being sufficient to allow for this. The pawl now extends through the opening 17, as indicated in Fig. 4. This being done, the sashes can not move toward or from each other and rattling is thus effectively prevented. This, of course, is assuming that the pawls fit neatly into the opening 17 and that when the parts are in the position indicated in Fig. 4 there can be but little lost motion between the casing 14, the lid 16 and the pawl 13 which is in engagement with these members.

It may sometimes be desirable to raise the lower sash or to lower the upper sash, or to

both raise the lower sash and lower the upper sash from the normal positions occupied by these sashes. This may be done and the pawls adjusted accordingly, so as to
5 hold the sashes in the positions indicated. When the sashes are in their normal positions, as indicated in Fig. 1, the lowermost pawl 13 extends through the casing 14, as indicated in Fig. 4. The operator, by raising
10 the lid 16 from the inside, can readily release the sashes from each other, but a person from outside of the room being unable to raise the lid 16 can not readily disengage the sashes.
15 It is in some instances desirable to fasten the lid 16 down securely upon the top of the casing, and for this purpose the screw 14^a, above described, is employed. The upper sash being forced into its uppermost
20 position and the lower sash into its lowermost position, the lowermost pawl 13 is swung into the position indicated in Fig. 3, the lid 16 being lowered; and next the screw 14^a is inserted. This being done, a person
25 outside of the window can not readily insert

his hand so as to move the pawl 13 and disconnect the two sashes.

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

In a window lock, the combination of a pawl made of a piece of resilient wire bent upon itself so as to assume a substantially triangular form, means for mounting said
30 pawl upon a sash, a casing mounted upon another sash, said casing being provided with an opening for receiving a portion of said pawl, a lid mounted upon said casing and movable relatively thereto, and a fastening member for securing said lid in a
35 predetermined position relatively to said casing in order to hold said pawl. 40

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD V. AMATO.

Witnesses:

WALTON HARRISON,
PHILIP D. ROLLHAUS.

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