J. O. YARDLEY.

SASH LOCK.

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1,134,572. **Patented Apr. 6, 1915.**

Fig. 1

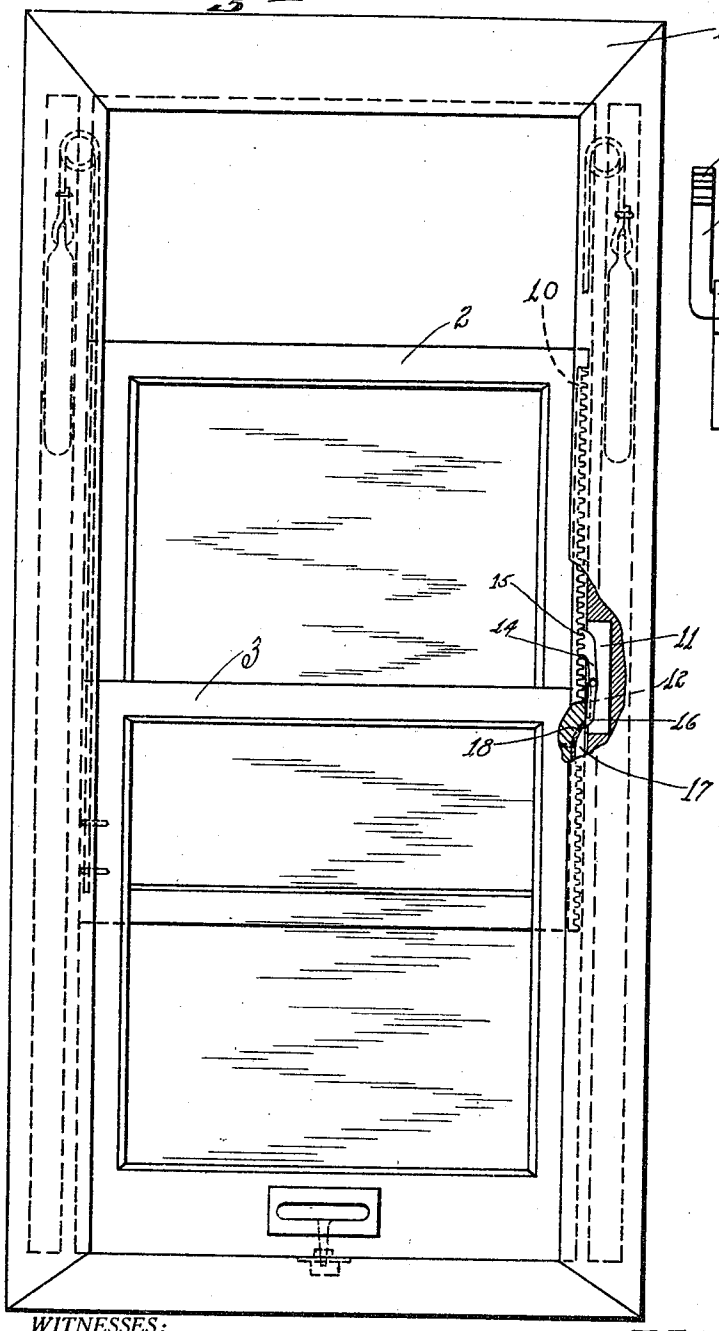


Fig. 3

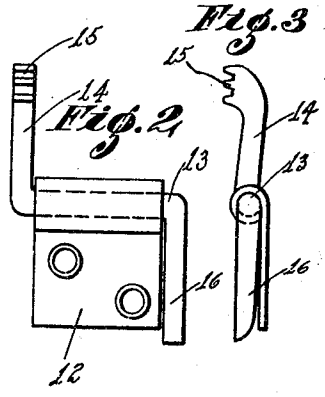
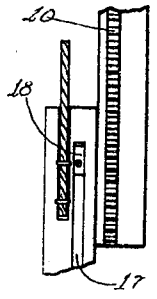


Fig. 2

Fig. 4.



WITNESSES:

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SASH-LOCK.

1,134,572. Specification of Letters Patent. Patented Apr. 6, 1915.

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To all whom it may concern:

Be it known that I, JOHN O. YARDLEY, a citizen of the United States, residing at Stockton, in the county of San Joaquin, State of California, have invented certain new and useful Improvements in Sash-Locks; and I do declare the following to be a clear, full, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in locks for windows and particularly relates to sash locks, the object of the invention being to produce an automatic lock for one sash dependent upon the other sash being in a predetermined position. The bringing of one of said sashes to such predetermined position will automatically lock the other sash, and so if the first named sash is likewise provided with a lock at such predetermined position then when such first named sash was in locked position it would automatically lock the other sash regardless of what position the other sash might be in. Thus presuming that the upper sash was provided with my improved locking means and the lower sash had any desired form of lock, by means of which it would be locked when in closed position, then the upper sash might be left partly open for the purpose of ventilation and still be locked provided the said lower sash was in the aforesaid predetermined position. In this way those in care of the windows could readily ascertain if both sashes were locked by merely throwing the lower sash to its closed locked position, which action would automatically lock the upper sash and thus obviate the necessity of individual investigation of each window separately since a glance at all the windows to determine if the lower sashes were in such predetermined position would determine the question as to whether or not the upper sashes were all locked. The invention would likewise be made strictly burglar proof in all respects.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of the parts as will fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a front elevation of a window casing sash partly broken out and showing the adaptation of my new locking means thereto. Fig. 2 is a front elevation of the locking lever for the upper sash. Fig. 3 is a side elevation of the same. Fig. 4 is a fragmentary view of the juncture of the upper and lower sashes.

Referring now more particularly to the characters of reference on the drawings the numeral 1 designates the window casing, 2 the upper sash and the numeral 3 the lower sash movable therein which sashes are both provided with weights in the usual manner.

Whenever the lower sash 3 is in its lower position in which it may be locked in any suitable manner the upper sash 2 is likewise locked irrespective of what its position may be which last named locking operation is accomplished by means of the following structure, namely: Set into one edge of the sash 2 is a rack 10. In a plane with the normal junction of the lower end of the sash 2 and the upper end of the sash 3 the casing 1 is provided with a recess 11 and disposed within this recess 11 is a plate or other supporting means 12 fulcrumed in which is a lever 13. This lever 13 has a projecting arm 14 on one side provided with rack teeth 15 engageable with the rack 10. On the other end of the lever 13 is an arm 16 engageable with the upper edge of the sash 3 when such sash 3 is in its lowest position. When such arm 16 is in engagement with the edge of the sash 3, as noted, this through the medium of the lever 13 holds the rack teeth 15 in engagement with the rack 10 and locks the upper sash against movement irrespective of what position it may be in.

Just below the point of engagement of the arm 16 with the edge of the sash 3 when such sash 3 is in its lowest position, I have provided the sash 3 with a slot 17 cut into its edge. Thus when the sash 3 is raised the arm 16 can be moved into the slot 17 thus relieving the fixed position of the arm 14 so that with the movement of the sash 2 the rack teeth 15 will be thrown out of engagement with the rack 10 to permit such sash 2 to be moved at will. The upper end

of the slot 17 is curved and provided with a wear plate 18 to prevent the frictional contact of the arm 16 therewith from wearing the same to such an extent as to decrease the efficiency of the locking mechanism.

From the foregoing description it can readily be seen that with the lower sash at any raised position both sashes can be moved at will. With the lower sash in its lowest position however, the upper sash is automatically locked against movement irrespective of what position it may be in.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfils the object of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention.

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

1. A device of the character described comprising the combination with an upper and a lower window sash, of a locking means for one of said sashes, such locking means comprising a lever fulcrumed independently of said sashes, an arm on each end of said lever, one of said sashes being provided with a slot in a portion of its length, a means normally holding one of said arms in said slot to hold the other of said arms out of engagement with the other sash, said first named arm being engageable with one terminal of said slot to force the other arm into engagement with the other sash, as described.

2. A device of the character described comprising the combination with an upper and a lower window sash, of a lock for one of said sashes, such lock comprising a rack on one of said sashes, a lever fulcrumed independently of both sashes, an arm on one end of said lever engageable with said rack, an arm on the other end of said lever engageable with the other sash to cause said first named arm to engage said rack when the last named sash is in a predetermined position, as described.

3. A device of the character described comprising the combination with an upper and a lower sash, one of said sashes being provided with a slot, of a rack on the other sash, a lever fulcrumed independently of both sashes, an arm on each end of said lever, one of said arms projecting normally into said slot and the other of said arms being adapted to engage said rack when the first named arm engages the terminal of said slot, as described.

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

JOHN O. YARDLEY.

Witnesses:
JOSHUA B. WEBSTER,
FLOYD M. BLANCHARD.

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