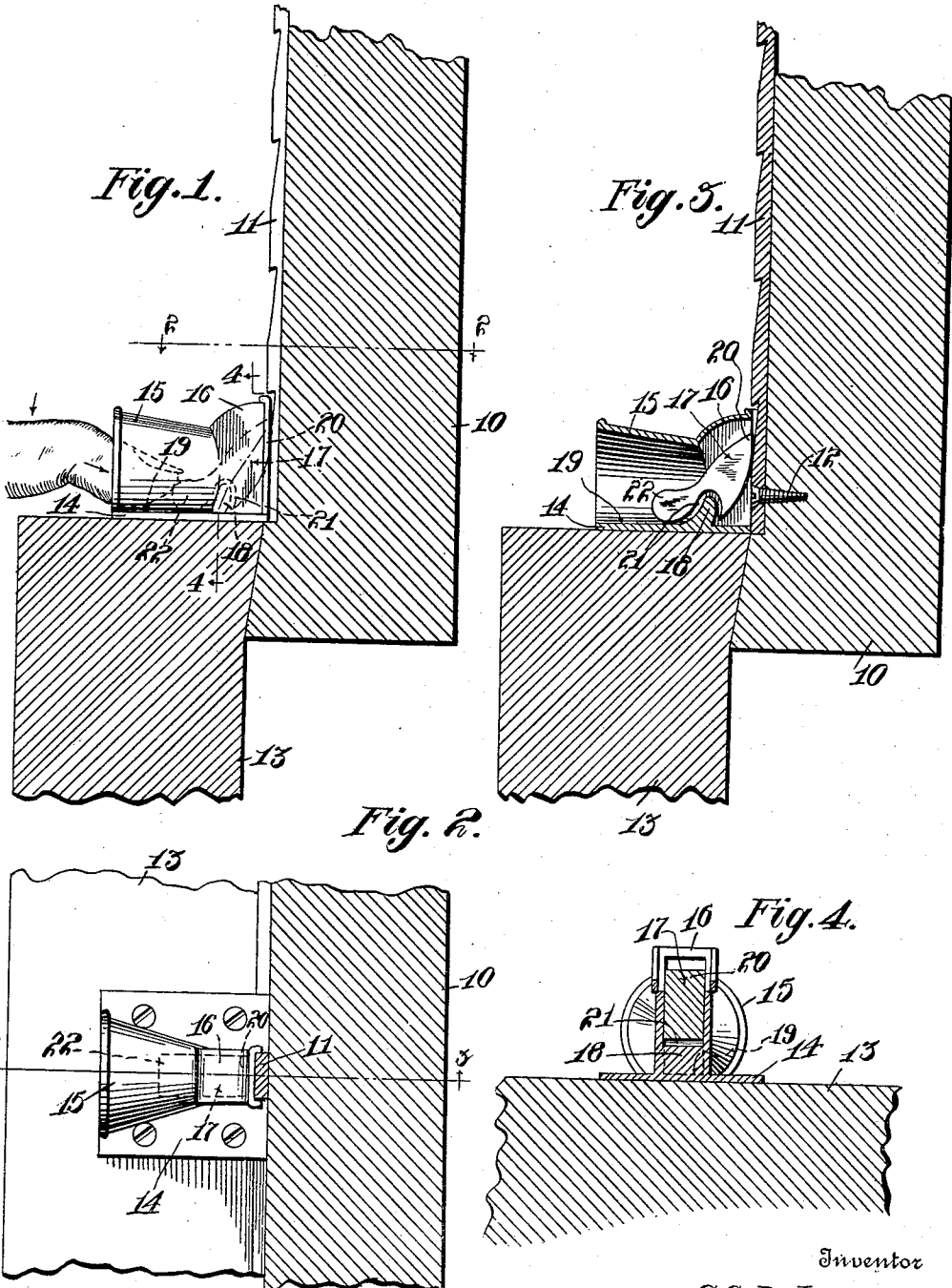


C. C. DE LAPPE.
SASH LOCK.
APPLICATION FILED JULY 29, 1912.

1,067,508.

Patented July 15, 1913.



Witnesses

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SASH-LOCK.

1,067,508.

Specification of Letters Patent.

Patented July 15, 1913.

Application filed July 29, 1912. Serial No. 712,090.

To all whom it may concern:

Be it known that I, CHARLES C. DE LAPPE, a citizen of the United States, residing at Dorchester, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Sash-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to sash locks and more particularly to that class of sash locks in which one part is carried by the upper sash while the other part is carried by the lower sash to lock the sashes against independent movement of one another.

The object is to provide a device of this character which may be employed for locking the sashes in closed position or in predetermined spaced distances from the upper and lower boards of the window frame.

With the above and other objects in view, my invention will be more fully described, illustrated in the accompanying drawings which show a preferred embodiment of my device and then specifically pointed out in the claims which are attached to and form a part of this application.

In the drawings: Figure 1 is a vertical sectional view of the mid rails of a pair of sashes and showing my invention in position upon said sashes. Fig. 2 is a cross sectional view on the line 2—2 of Fig. 1. Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 2. Fig. 4 is a vertical sectional view on the line 4—4 of Fig. 1.

Referring more specifically to the drawings, in which similar reference numerals designate corresponding parts throughout, 10 designates in general the upper sash upon the inner face of each side rail of which is secured in vertical position the rack bar 11 by means of screws 12 or other suitable fastening means.

The lower sash is designated in general by the numeral 13 and positioned upon the upper face of the mid rail of said sash is the face plate 14 carrying the circular housing 15 extending transversely of the mid rail and at the outer end of which is formed the enlarged portion 16 to accommodate the cam locking member 17, which will presently be described, the sides of the enlarged portion 16 being vertical while the top

thereof is curved upwardly and outwardly. The vertical ends of the sides of said enlarged portion engage against the opposite side edges of the rack bar 11, the top of said portion terminating slightly inwardly of the vertical edges of said sides to avoid the teeth of the rack bar 11. The opposite end of the housing 15 is open, the purpose of which will presently appear. Extending transversely through the housing and having its opposite ends joined with the vertical sides of the enlarged portion 16 of said housing, is the rib 18 formed upon the bottom of the housing which is preferably flat, as shown at 19.

The pawl member 17 is positioned within the enlarged portion 16 of the housing 15 in such manner that the nose 20 of said cam member is normally engaged with the teeth of the rack bar 11, said cam member being provided with a transverse recess 21 nearly opposite the nose 20 to permit of engagement of said cam member over the rib 18 the cam member 17 has formed thereon a short distance from the mouth of the transverse recesses 21, the transversely extending handle 22 which may be readily engaged by a finger inserted in the open end of the housing 15 to rock the cam 17 upon the rib 18 and thus disengage the nose 20 from the rack bar 11 to permit movement of either sash independently of the other.

As the teeth of the rack bar 11 are directed downwardly and the pawl locking member 17 has the nose thereof directed upwardly for engagement with said teeth, it will be evident that the window will be normally locked in closed position and when it is desired to open the same, the foot 22 of the cam member 17 must be depressed and forced forwardly before the upper sash will be free to move downwardly and the lower sash to move upwardly. It will further be evident that as the rack bars 11 are provided with a number of teeth for engagement with the pawl members 17, the sashes are locked against further opening in any desired position and that further opening of the window is prevented owing to the automatic engagement of the nose 20 of each pawl member 17 with said teeth of the rack bars. The window may be readily closed, however, by simply forcing the upper sash upwardly and the lower sash downwardly, as will be clearly apparent, the

teeth of each rack bar riding beneath the nose of the pawl locking member engaged therewith. It will be readily seen by reference to the accompanying drawings that the pawl member 17 can be easily removed from or inserted in the casing, when same is mounted for practical use.

It will be evident that as this sash lock is composed of only three pieces of extremely simple formation, the device may be manufactured at an extremely small cost and further, owing to the construction and operation of the device it will be apparent that the same will be highly efficient, effective and durable in use.

What I claim is:—

1. A sash lock comprising a one piece housing having a transverse rib therein, means for securing the housing to a sash, a rack bar carried by a second sash, and a pawl locking member engaged over the rib

and adapted for engagement against the rack bar to lock together said sashes.

2. A sash lock comprising a housing having an enlarged end and secured to a sash, a rib extending transversely within said enlarged end of the housing, a rack bar carried by a second sash and adapted for movement past the enlarged end of said housing, a pawl locking member removably engaged over the rib and adapted for rocking movement thereon to engage the rack bar carried by the second sash, and a handle portion carried by said pawl member and within the housing for releasing said pawl member from the rack bar.

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

CHARLES C. DE LAPPE.

Witnesses:

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