

Dec. 4, 1923.

1,476,646

H. A. ROY

SASH LOCK

Filed April 16, 1921

2 Sheets-Sheet 1

Fig. 1.

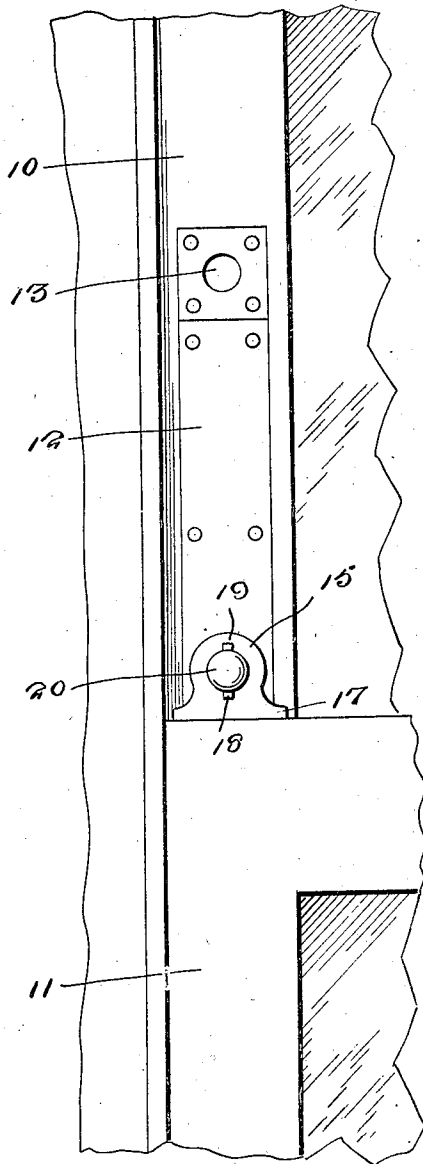
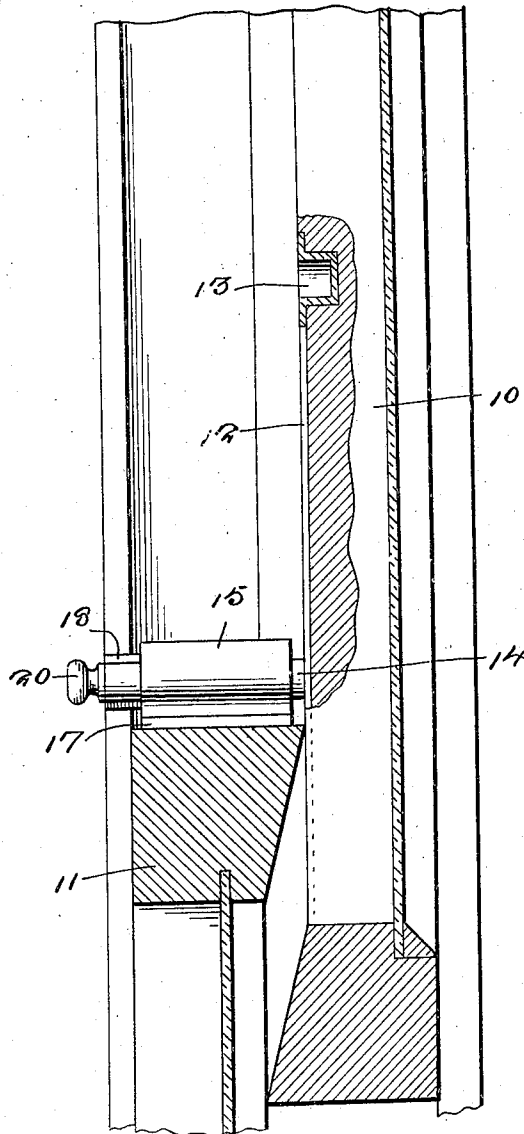


Fig. 2.



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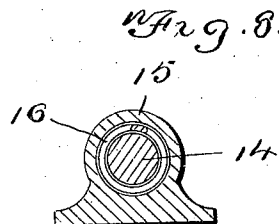
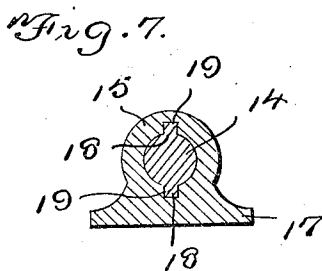
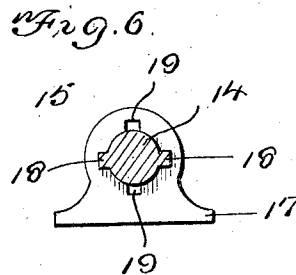
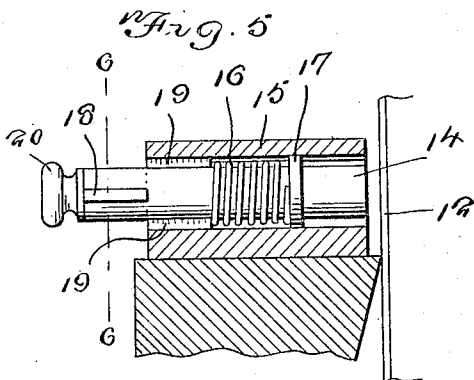
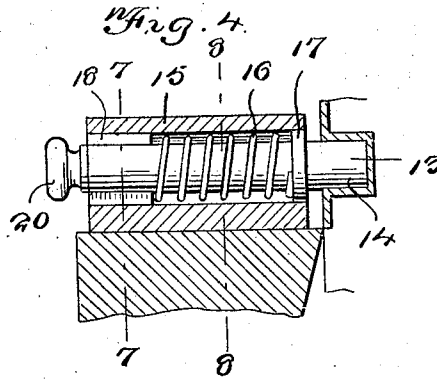
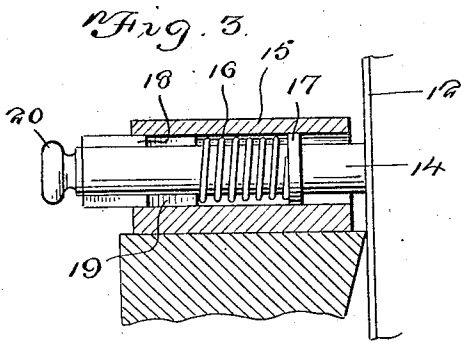
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SASH LOCK

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

HAROLD ARMEL ROY, OF PORTLAND, OREGON.

SASH LOCK.

Application filed April 16, 1921. Serial No. 461,772.

To all whom it may concern:

Be it known that I, HAROLD A. ROY, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented new and useful Improvements in Sash Locks, of which the following is a specification.

This invention comprehends the provision of a sash lock, by means of which the sashes of a window can be held fixed relatively, with one of the sashes opened the desired degree for ventilating purposes, the lock being automatic in its operation to engage and also designed so that it can be held in an inactive position so as to allow free movement of either sash of the window.

The nature and advantages of the invention will be better understood when read in connection with the accompanying drawings, the invention residing in the combination, construction and arrangement of parts as claimed.

In the drawings forming part of this application, like numerals of reference indicate similar parts in the several views and wherein:

Figure 1 is a fragmentary view of a window showing the relative position of the parts of the sash lock.

Figure 2 is a sectional view taken at a right angle to Figure 1.

Figure 3 is a longitudinal sectional view through the lock showing the inactive position of the locking bolt or element.

Figure 4 is a similar view, showing the locked position of the element.

Figure 5 is a similar view, showing the bolt wholly retracted and adjusted to position the ribs at right angles to the grooves which normally receive the ribs.

Figure 6 is a sectional view taken on line 6-6 of Figure 5.

Figure 7 is a sectional view taken on line 7-7 of Figure 4.

Figure 8 is a sectional view taken on line 8-8 of Figure 4.

Referring to the drawings in detail, 10 indicates the upper sash and 11 the lower sash of a window. Secured to the upper sash 10 is a metallic strip 12 which at a suitable point in its length is formed with a socket or depression 13 which is embedded in the sash and adapted to receive the locking bolt or element 14 carried by the lower sash 11.

The locking bolt or element 14 slides

through a cylinder 15 which is open at both ends. This cylinder is carried by a base plate 17 which is secured in any suitable manner upon the upper rail of the lower sash 11. The locking element 14 is normally projected from one end of the cylinder into contacting engagement with the metallic strip 12, through the instrumentality of a coiled spring 16, the latter encircling the locking bolt or element and having one end bearing against a collar 17 secured to said element, while the opposite end of the spring bears against the adjacent extremities of a plurality of longitudinally disposed ribs 18 formed on the locking bolt or element for a purpose to be presently described. The cylinder 15 is formed with opposed longitudinal grooves 19, there being one groove for each rib 18 so that the locking bolt or element is guided in its movement within the cylinder 15. The outer end of the locking bolt is equipped with a knob 20 by means of which the bolt can be conveniently retracted and turned when desired. The socket or depression 13 having a metallic plate 12 which is so disposed that the upper sash may be lowered a slight distance for ventilating purposes when the socket is positioned to receive the locking element 14, and consequently the sashes 10 and 11 under these circumstances are fixed relatively against movement. Again, the lower sash 11 may be slightly raised for ventilating purposes, instead of lowering the upper sash and the locking element used to hold the sashes fixed relatively. As above stated, the locking element is spring pressed, and normally held in contact with the plate 12, so that when one or the other of the sashes is moved to bring the locking bolt into alinement with the socket or depression 13, the locking bolt is automatically moved to an active position for the purpose mentioned. The locking bolt may be retracted by means of the knob 20 until the ribs 18 are wholly removed from the cylinder 15, after which the bolt can be slightly turned to position the ribs out of alinement with the grooves 19, during which time the ribs 18 bear against the adjacent end of the cylinder thereby holding the locking bolt inactive so that either of the sashes may be freely manipulated. The invention is very simple in construction and can be manufactured and sold at a nominal cost.

While it is believed that from the foregoing description the nature and advantages

of the invention will be readily apparent, I desire to have it understood that I do not limit myself to what is herein shown and described, and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What I claim is:—

A window sash lock comprising in combination, a base plate adapted to be secured upon the lower sash of the window, a cylinder supported thereby and open at both ends, said cylinder having pairs of longitudinal grooves diametrically opposed, a spring pressed rod operating within said cylinder, a collar on said rod, said collar being arranged adjacent one end thereof and operating within the cylinder, a pair of

longitudinally disposed ribs arranged on said rod adjacent the opposite end thereof and normally arranged to slide in said grooves, a metallic strip secured to the upper sash of the window and having sockets to receive said rod, a spring interposed between the collar and said rib for normally holding the rod in one of said sockets, and a knob formed on the outer end of the rod, whereby the latter may be retracted in turn to cause the inner end of said ribs to bear against the adjacent end of the cylinder, and hold the rod in an inoperative position.

In testimony whereof I affix my signature.

HAROLD ARMEL ROY.