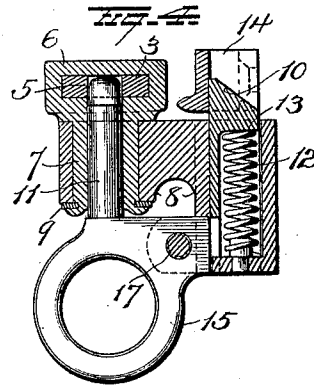
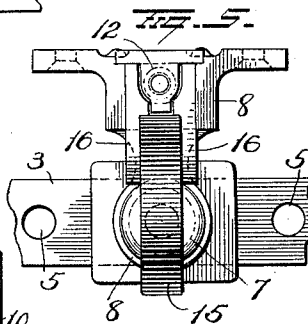
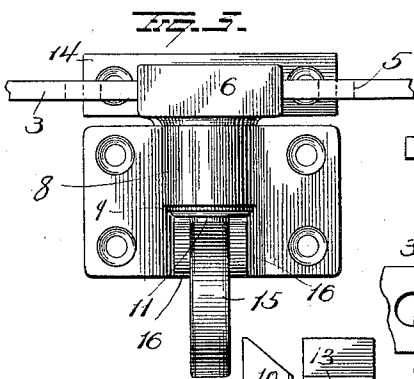
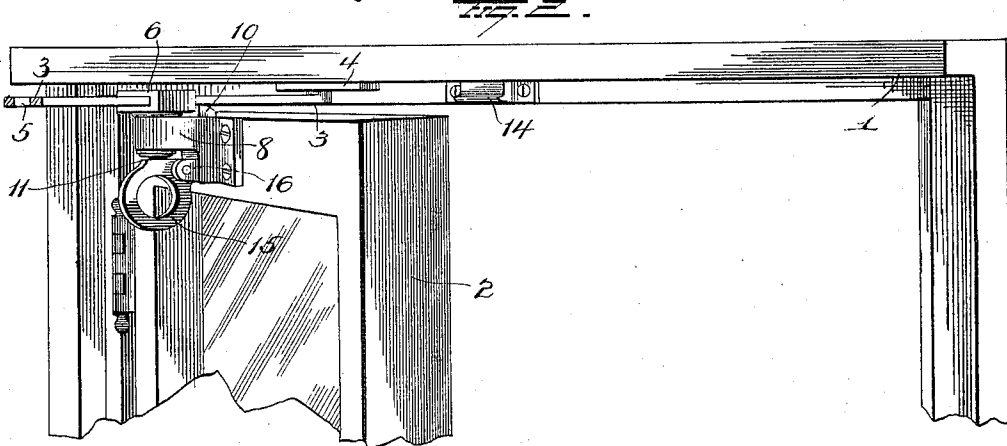
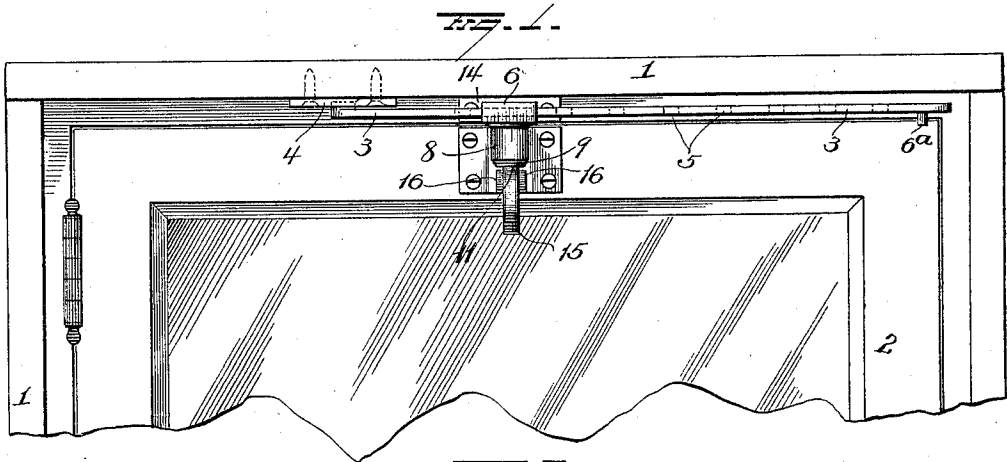


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CASEMENT LATCH AND ADJUSTER.
APPLICATION FILED MAR. 7, 1912.

1,032,906.

Patented July 16, 1912.

2 SHEETS—SHEET 1.



WITNESSES
E. J. Nottingham
G. F. Downing

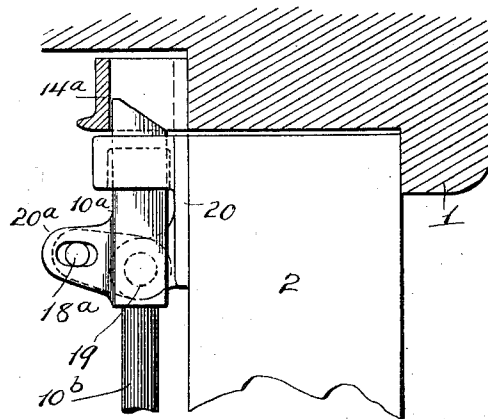
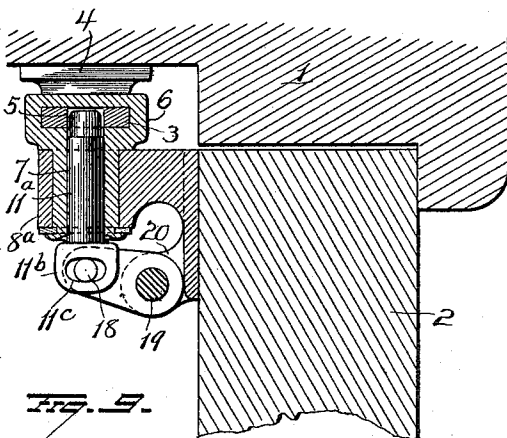
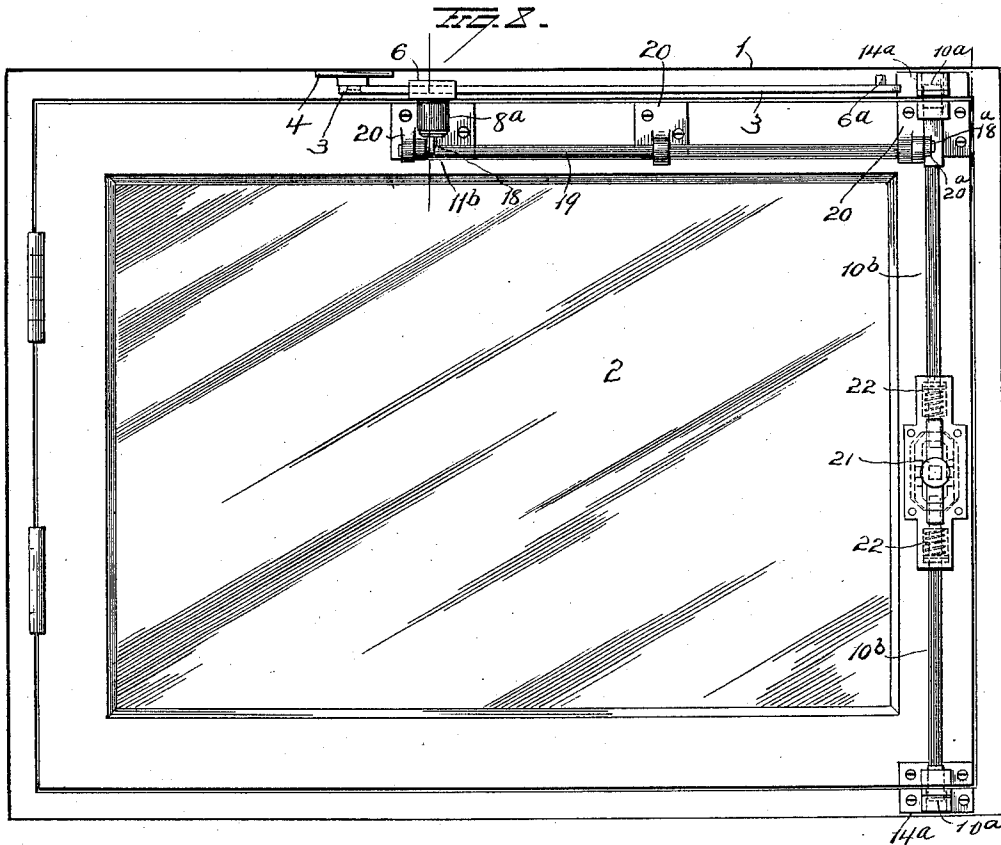
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UNITED STATES PATENT OFFICE.

DAVID E. HUNTER, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO THE YALE & TOWNE MANUFACTURING COMPANY, OF STAMFORD, CONNECTICUT.

CASEMENT LATCH AND ADJUSTER.

1,032,906.

Specification of Letters Patent.

Patented July 16, 1912.

Application filed March 7, 1912. Serial No. 682,158.

To all whom it may concern:

Be it known that I, DAVID E. HUNTER, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Casement Latches and Adjusters; 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.

My invention relates to an improvement in a sash latch and adjuster, the object being to provide simple and effective means for locking a casement, window, or transom, in its closed position and for locking it in its adjusted or open position, the said locking and adjusting means being connected whereby they are actuated simultaneously by the same means.

With this object in view my invention consists in the parts and combination of parts as will be more fully described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of a section of a casement window showing one embodiment of my invention. Fig. 2 is a similar view showing the window partly open and locked. Fig. 3 is a detached view of the sash bracket carrying the two latches. Fig. 4 is a view in section partly in elevation of the parts shown in Fig. 3. Fig. 5 is a plan view of the same. Figs. 6 and 7 are views of the latch for locking the window in closed position. Fig. 8 is a view of another embodiment of my invention. Fig. 9 is a view in section through the sash bracket and adjustment latch of Fig. 8, and Fig. 10 is a view of one of the locking latches of Fig. 8.

1 represents a frame, 2 a sash, which in the present instance is shown as a casement hinged to the frame, and 3 an adjustment bar pivotally secured at one end to a plate 4 secured to the top of the frame 1. The adjustment bar 3, is provided with a series of circular holes or depressions 5, and near its outer free end with a stop pin 6^a, which latter prevents the complete withdrawal of the bar 3 from the guide loop 6. This guide loop comprises a metal block, and a hollow stem 7, the block having an opening through same for the passage of the bar 3, the opening being of a size sufficient to permit of a free sliding movement of the loop on the

bar, and in open communication with the bore of the stem 7. This stem is cylindrical externally, and is mounted in a cylindrical bearing formed in the sash bracket 8, and is secured in place by turning down or upsetting the upper end of the stem onto a washer 9 seated on the outer surface of the bracket 8. This stem has a free turning movement in the bracket 8, hence when the window is opened, the guide loop moves the bar 3 in the direction of movement of the window, and necessarily turns on its stem in order to conform to the changing positions of the bar 3. The bracket 8 is secured to the sash 2, and carries two latches 10 and 11, the former of which is mounted in the rear portion of the bracket 8, while the latch 11 is mounted to move in the hollow stem 7 of the guide loop 6. Latch 10 is cut away at its rear as shown in Fig. 4, to receive the spring 12, which latter bears at one end against the shoulder 13 on latch 10, and at its opposite end against the lower wall of the recess in bracket 8 in which the latch moves, hence the spring 12 normally tends to force the latch into contact with its keeper 14 secured to the casement frame 1. Latch 11, is as before explained mounted to move longitudinally in the stem 7 of guide loop 6, and is designed to enter the recesses or holes 5, in bar 3, for locking the sash 2 in any of its open adjustments. This latch 11 is secured to or formed integral with the operating handle 15, which in the present instance is in the form of a ring. The latch 10 is provided with outwardly projecting extensions 16, adapted to engage the opposite sides of the handle 15, and secured thereto by the pin or screw 17, so that by pulling downwardly on handle, latches 10 and 11 will be simultaneously retracted or withdrawn, thus freeing latch 10 from its keeper 14 on the frame 1, and latch 11 from its engagement with the adjusting bar 3, and leaving the sash 2 free to be turned in any desired position. By now releasing the handle 15 the spring 12 will actuate both latches, and carry latch 11 into engagement with the bar 3. If it should not be in alinement with one of the recesses or holes 5, in said bar, a slight movement of the sash in either direction will bring one of the recesses or holes under the latch 11, thus locking the sash in its adjusted position.

This improvement may be used on a case-

ment as shown, or it may be used on windows or transoms hinged at the top, bottom or center, and the bar 3 and bracket 8 and parts carried thereby may be at either side, top or bottom, and if out of reach may be actuated by a hook. When the sash is closed, it may be locked by both latches, but primarily by latch 10, and when in an adjusted position it is locked by latch 11.

- 10 In the construction shown in Fig. 8, I have shown the two latches for locking the sash at its top and bottom respectively when in its closed position, and a third latch for engagement with the adjustment bar, all three latches being operated in unison by a single handle or other operating device. In this construction the bracket 8^a carries simply the guide loop 6 and its stem 7, as shown in Fig. 9. The latch 11^a which is mounted in the stem projects beyond the outer end of said stem 7, and is provided with an enlarged head 11^b, having an elongated slot 11^c, in which the crank pin 18 of crank shaft 19 rests. This shaft is mounted in suitable bearings 20 secured to the sash 2, and is provided at its opposite end with a crank having a pin 18^a which rests and moves in an elongated slot in the arm 20^a projecting outwardly from the latch 10^a. This latch is provided with a shank 10^b, which projects downwardly along the free side edge of the sash to the center where it is engaged by a handle 21. Another shank 10^b having a similar latch 10^a on its free end, extends downwardly from the handle, and both latches 10^a and their shanks are normally projected outwardly by the springs 22. Any approved means may be employed for connecting the handle to the two latch shanks, so that by turning the handle in one direction both latches 10^a will be drawn toward each other, or retracted, and by releasing the handle both will be projected by their springs 22. As one latch 10^a is coupled up by crank shaft 19 with the adjustment latch 11^a, it will be seen that by retracting latch or latches 10^a, latch 11^a will also be disengaged from adjustment bar 3, thus leaving the sash free to be turned. After it has been turned to proper position, by releasing the handle all the latches will be projected thus permitting latch 11^a to engage adjustment bar 3 to lock the sash in its adjusted position. When the sash is closed it will be locked by the latches at the upper and lower edge of its free end or edge engaging the keepers 14^a, and also be locked by the engagement of the latch 11^a with the adjustment bar.
- 60 With both forms shown the several latches are disengaged from their keepers and adjustment bar by a single actuating handle or pull, and the adjustment latch immediately engages its bar 3 upon the release of said handle or pull.

It is evident that many slight changes might be resorted to in the relative arrangement of parts shown and described without departing from the spirit and scope of my invention. Hence I would have it understood that I do not wish to confine myself to the exact construction and arrangement of parts shown and described, but

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:—

1. In a sash latch and adjuster, the combination of an adjustment bar pivoted at one end to the frame, a latch carried by the sash for engaging a keeper on the frame, a second latch also carried by the sash for engagement with the adjustment bar, and a single means for retracting both latches.

2. In a sash latch and adjuster, the combination of an adjustment bar pivoted at one end to the frame, a latch carried by the sash for engaging a keeper on the frame when the sash is closed, a second latch also carried by the sash for engagement with the adjustment bar when the sash is opened, a spring for normally holding both latches in projected positions, and a single means for retracting both latches.

3. In a sash latch and adjuster, the combination of an adjustment bar pivoted at one end to a frame, a bracket secured to the sash, two latches carried by said bracket one of said latches adapted to engage a keeper on the frame and the other to engage the bar, and a single means for simultaneously retracting both latches.

4. In a sash latch and adjuster, the combination of an adjustment bar pivoted to the frame, a bracket secured to the sash, a guide loop located adjacent the bracket and having a hollow stem passing through and swiveled in said bracket, the said guide loop embracing the adjustment bar, a latch passing through the said hollow stem and engaging the bar in the loop, and means adjacent the free end of the stem and engaging the latch for actuating the latter.

5. In a sash latch and adjuster, the combination of an adjustment bar pivoted to the frame, a bracket secured to the sash, a swiveled guide loop carried by said bracket and embracing the bar, two latches, one for engaging a keeper secured to the frame and the other to engage the adjustment bar and a single means for retracting both latches.

6. In a sash latch and adjuster, the combination of an adjustment bar pivoted to the frame, a bracket secured to the sash, a swiveled guide loop carried by said bracket and embracing the bar, two latches one for engaging a keeper secured to the frame and the other to engage the adjustment bar, a single spring normally tending to project both latches and a single device for retracting both latches simultaneously.

7. In a sash lock and adjuster, the combination of an adjustment bar pivoted to the frame, a bracket secured to the sash, a guide loop having a hollow stem the latter being
5 swiveled in the bracket, two latches, one mounted in the bracket and engaging a keeper on the frame and the other mounted in the hollow stem of the guide loop and engaging the adjustment bar, a single spring

for projecting both latches, and a single 10 means for simultaneously retracting them.

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

DAVID E. HUNTER.

Witnesses:

FRED C. SQUIRES,
W. J. MARSDEN.

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