

McARTHUR LONG.
WINDOW SASH LOCK.
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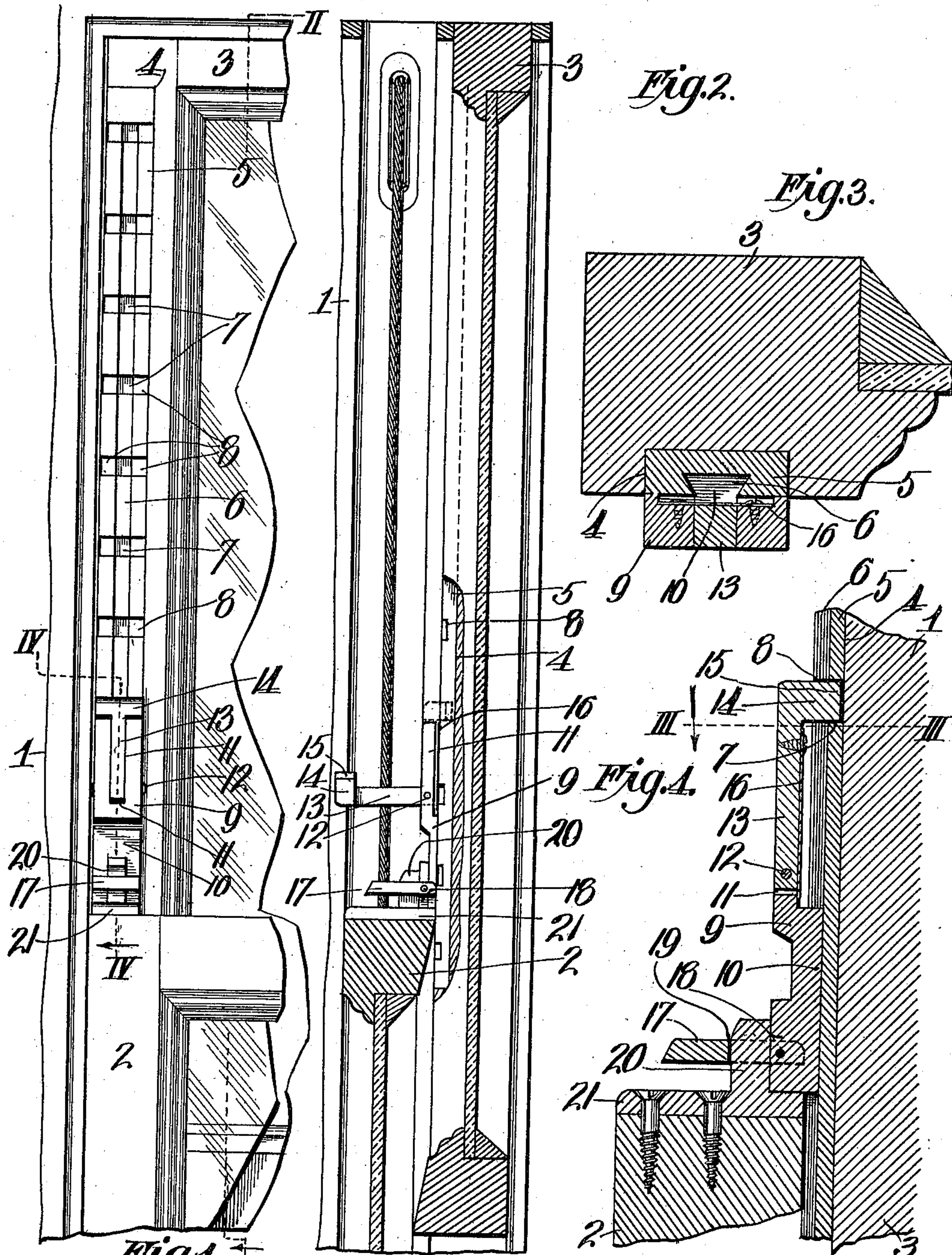


Fig. 1. II
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McARTHUR LONG, OF MEMPHIS, TENNESSEE.

WINDOW-SASH LOCK.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, McARTHUR LONG, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Window-Sash Locks, of which the following is a specification.

This invention relates to window sash locks of that type whereby the lower sash is prevented from being moved upward and the upper sash from being moved downward, my object being the provision of a sash lock susceptible of adjustment to lock the sashes at variable points and of being thrown to inoperative position to leave both sashes free.

A further object is to produce a device of the character outlined, embodying the desirable features of simplicity, strength, durability and cheapness of construction.

With these objects in view, the invention consists in certain novel features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawing, in which:

Figure 1, is a fragmentary inner face view of a window equipped with a sash lock embodying my invention. Fig. 2, is a vertical section on the line II—II of Fig. 1, a part in the background being broken away. Fig. 3, is an enlarged section on the line III—III of Fig. 4. Fig. 4, is a vertical section on the line IV—IV of Fig. 1.

In the said drawings, 1 indicates a window casing, 2 the lower sash and 3 the upper sash thereof, the latter having a longitudinal groove 4 in its inner face at one side of the window light.

Secured in said groove, with its face flush with the inner face of the sash, is a vertical bar 5, provided with a dovetail groove 6, extending from its lower end nearly to its upper end, and with openings 7, in communication with said groove, and transverse slots 8, intersecting said groove in the horizontal planes of said openings.

Arranged vertically is a slide block 9, the same fitting against the face of the bar 4 and having a dovetail rib 10 fitting in the groove 6, the block being provided inward of its body, with an upwardly-projecting bifurcated arm 11, and pivoted in said bifurcation at 12, is a catch 13 equipped at its upper end with a cross head 14 for engagement

with said slots 8, and a tooth 15, projecting from said cross head, for engagement with said openings 7, a spring 16 being secured to the rear or outer side of the bifurcated part of block 9, and applying yielding pressure on the catch to hold the same in vertical position with its tooth 15 in one of the openings 7, or in horizontal position, as shown in Fig. 2, in which latter position it does not interfere with the opening and closing of either of the window sashes. A clamp 17, is bifurcated at one end and fitted over the narrowed lower end or rib 18 of block 9 and pivoted thereto so as to be capable of standing vertically against the block above and at opposite sides of said rib, which is its inoperative position, or of projecting horizontally inward so that its bifurcation 19, is in position to receive the upwardly-projecting stud 20, of a plate 21, secured to the upper end of the lower sash.

When the parts are arranged as shown in Figs. 1 and 3, it is impossible for a person outside the window to move the upper sash or raise the lower sash, it being also obvious that the engagement of the pivoted clamp 17 with the stud 20 binds the sashes together and thus minimizes the possibility of their rattling in windy weather, it being noticed that this relation between the sashes exists irrespective of the position thereof, provided the plate 21 is in engagement with the lower end of the block 9. It is obvious that the block may be slid in bar 5 to leave the lower sash free to be raised and lowered independent of the block though the complete elevation of said sash will result in the reengagement of the stud with the pivoted clamp unless the latter is swung upward to the vertical position previously referred to.

When it is desired to lower the upper sash without affecting the lower one, the catch 13, is swung to the horizontal position shown in Fig. 2, the engagement of spring 16, with the squared lower end of the catch holding it reliably in the inoperative position mentioned, it being apparent that as said upper sash moves downward, the block slides relatively upward in the grooved bar 5, through engagement with the plate 21 at the upper end of sash 2.

From the above description it will be apparent that I have produced a sash lock embodying the features of construction enumerated as desirable in the statement of the object of the invention, and I wish it

understood that I reserve the right to make such changes in form, detail construction and organization as properly fall within the spirit and scope of the appended claims.

5 I claim:—

1. A sash lock, comprising a bar secured vertically to the inner side of the upper sash of a window and provided with a vertical series of openings, a block fitting
10 against the inner side of said bar and slidably secured thereto, a catch pivoted to the said block and provided with a tooth, and a spring carried by the block and engaging the catch to hold the same vertically with
15 its tooth in engagement with any of said openings or horizontally with its tooth out of engagement with any of said openings.

2. A sash lock, comprising a bar secured vertically to the inner side of the upper sash
20 of a window and provided with a vertical series of openings and a corresponding series of transverse slots, the latter being formed in the inner side of the bar and communicating with the said openings, a
25 block fitting against the inner side of the said bar and slidably secured thereto, a catch pivoted to said block and provided with a cross head to engage any of the said slots and a tooth to engage any of the said open-
30 ings, and a spring carried by the said block and bearing against the said catch and adapted to hold the same with its tooth in or out of engagement with any one of said openings and said cross head in or out of
35 engagement with the communicating slot of the bar.

3. A sash lock comprising a bar secured vertically to the inner side of the upper sash of a window, a block fitting against the
40 inner side of said bar and slidably secured thereto, means for locking the block to the bar, a clamp pivoted to said block, and a plate secured to the upper end of the lower sash of the window and provided with a
45 stud for engagement by said clamp for the purpose of holding the sashes clamped together.

4. A sash lock, comprising a bar secured vertically at the inner side of the upper sash
50 of a window and provided with a vertical series of openings, a block fitting against the inner side of said bar and slidably secured thereto, a catch pivoted to said block and provided with a tooth, a spring carried

by said block and engaging the catch to hold 55 the same with its tooth in or out of engagement with any one of said openings, a pivoted clamp carried by the block, and a plate secured to the upper end of the lower sash of the window and underlying said block 60 and provided with an upwardly projecting stud for engagement by said pivoted clamp.

5. A sash lock, comprising a bar secured vertically at the inner side of the upper sash of a window and provided with a ver- 65 tical series of openings, a block fitting against the inner side of said bar and slidably secured thereto, a catch pivoted to said block and provided with a tooth, a spring carried by said block and engaging the catch 70 to hold the same with its tooth in or out of engagement with any one of said openings, a bifurcated clamp pivoted to said block, and a plate secured to the upper end of the lower sash of the window and underlying 75 the pivoted block and provided with an upwardly projecting lug for engagement with the bifurcation of said clamp and to be held pressed against the inner face of said block 80 by said clamp.

6. A sash lock, comprising a bar secured vertically to the upper sash of a window and provided with a dove tail groove, a vertical series of openings communicating with said groove, and a corresponding series 85 of transverse slots intersecting said groove and communicating with said openings, a block fitting against the inner side of said bar and provided with a dove tail rib slidably engaging said groove, a pivoted catch 90 carried by said block and provided at its free end with a cross head for engagement with any one of said transverse slots and with a tooth projecting from the cross head for engagement with the opening in the bar 95 registering with the slot engaged by the cross head and a spring carried by the block and engaging the catch and adapted to hold the same vertical with its cross head and tooth engaging a slot and an opening re- 100 spectively or with said cross head and tooth out of engagement with the vertical bar.

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

McARTHUR LONG.

Witnesses:

OSCAR S. WALL,
RAY LEE DEFRIES.