(No Model.) 2 Sheets—Sheet 1.

C. M. FOWLER.

WINDOW FASTENER.

No. 524,803. Patented Aug. 21, 1894.

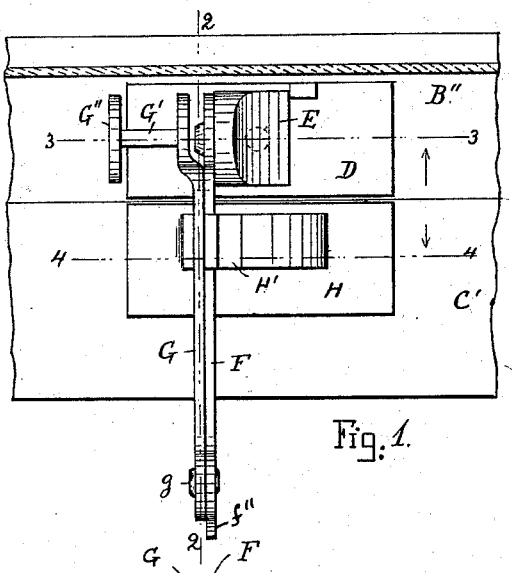

Fig. 1.

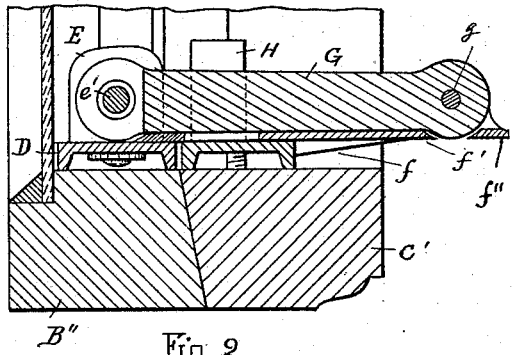

Fig. 2.

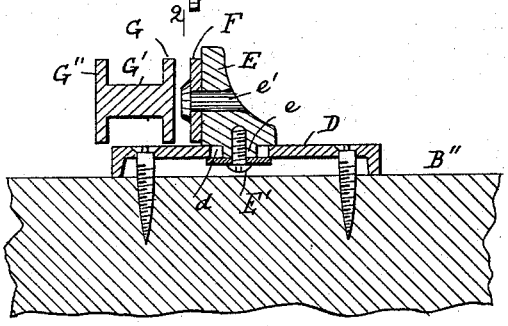

Fig. 3.

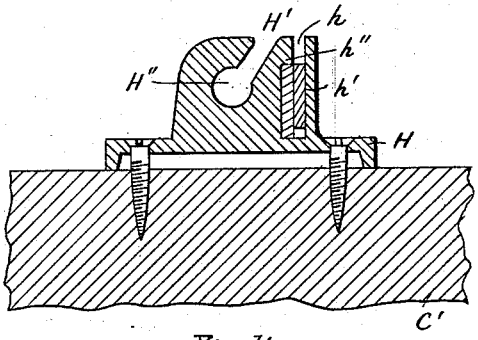

Fig. 4.

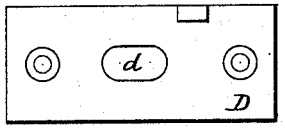

Fig. 6.

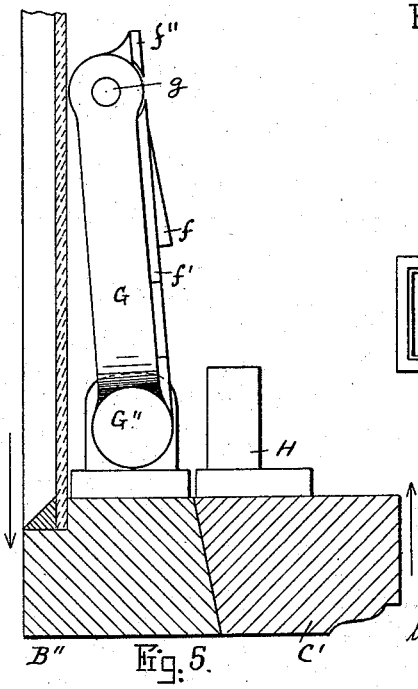

Fig. 5.

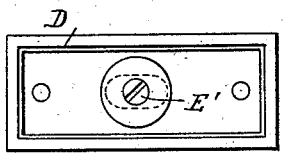

Fig. 7.

Witnesses.

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Inventor.

Charles M. Fowler

by Albert G. Davis

his atty.

(No Model.) 2 Sheets—Sheet 2.

C. M. FOWLER.

WINDOW FASTENER.

No. 524,803. Patented Aug. 21, 1894.

Fig. 8.

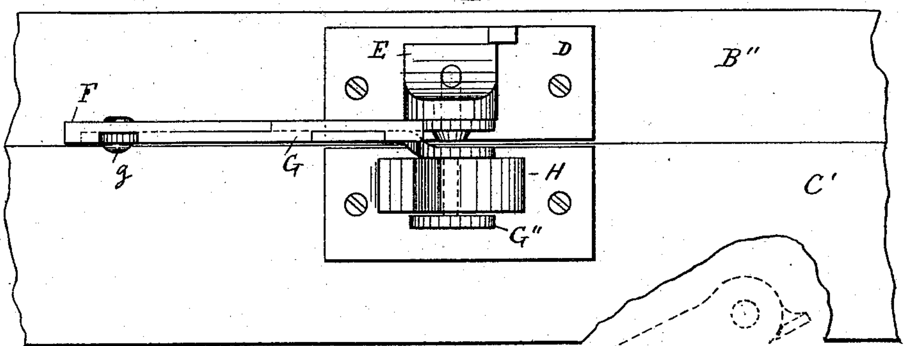


Fig. 9.

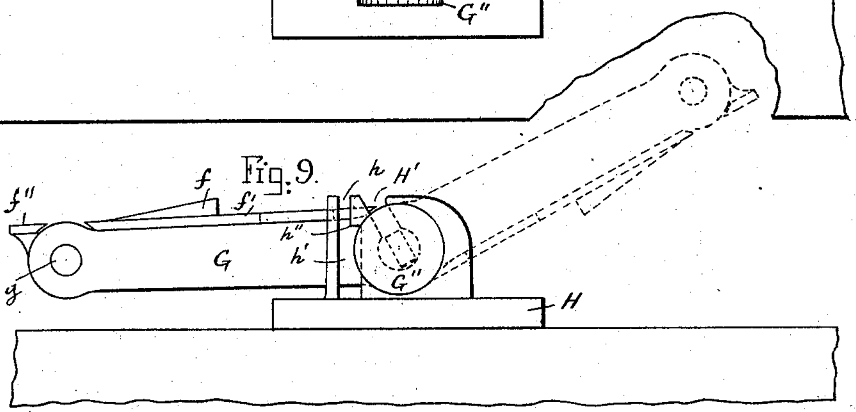
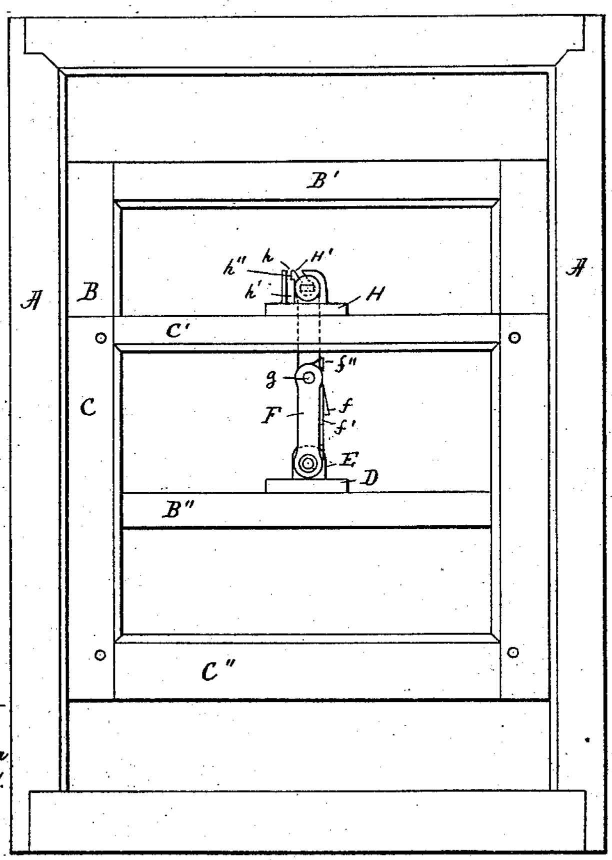


Fig. 10.



Witnesses.

Lauritz N. Möller

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UNITED STATES PATENT OFFICE.

CHARLES M. FOWLER, OF LOWELL, MASSACHUSETTS.

WINDOW-FASTENER.

SPECIFICATION forming part of Letters Patent No. 524,803, dated August 21, 1894.

Application filed April 30, 1894. Serial No. 509,437. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. FOWLER, a citizen of the United States, and a resident of Lowell, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Window-Fasteners, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in window fasteners and it has for its object to lock the window sashes together either in a closed or partially open position as well as preventing the sashes from rattling when closed and effectually keeping out the cold air from coming in between the sashes when in such closed position.

The device is easily operated from the inside of the room at the same time as it serves as an effectual safe guard preventing any one from the outside to open or in any manner to interfere with this my improved window fastener.

The invention is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1, represents a top plan view of the invention shown in position which I term cross locked. Fig. 2, represents a section on the line 2—2 shown in Fig. 1. Fig. 3, represents a section on the line 3—3 shown in Fig. 1. Fig. 4, represents a section on the line 4—4 shown in Fig. 1. Fig. 5, represents a side elevation of the invention in an unlocked position to permit one sash to be moved by the other. Fig. 6, represents a detail top view of the pivot plate secured to the top portion of the outer sash. Fig. 7, represents a bottom view of said pivot plate. Fig. 8, represents a top plan view of the invention shown in what I term side locked position. Fig. 9, represents a front elevation of Fig. 8 shown in dotted lines the position for unlocking the fastener; and Fig. 10, represents a front elevation of a pair of window sashes shown as secured together by my improved fastener in such a position as to leave ventilating spaces above and below, or above and below said sashes.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In Fig. 10, A, A, represent the stiles of the window frame in which the outer and inner sashes B, C, are vertically adjustable as usual.

B′, is the upper rail of sash B; and C″ is the lower rail of sash C.

C′ and B″ are the meeting rails of the respective sashes C and B as usual. On the top of the meeting rail B″ is secured the pivot plate D to which is pivoted the fulcrum piece E having on its under side a projection *e*, passing through a slot hole *d* in said plate D and connected to the latter by means of a headed screw E′ as shown in Figs. 2, 3 and 7. To said fulcrum piece E is pivoted at *e′* the link F the other end of which is pivoted at *g* to the locking link G as shown. The link G has at its free end a lateral flattened shank G′ terminating as a preferably circular head G″ as shown in the drawings.

To the top of the meeting rail C′ is secured the lock plate H having a preferably inclined notch or recess H′ connected to a circular transverse perforation H″ as shown in Fig. 4. In addition to such inclined notch end perforation, the lock plate H has an opening *h* communicating with an enlarged transverse perforation *h′* having a locking lip *h″* at or near its upper end as shown in Fig. 4.

The lever F has on its under side a projection *f* adapted to be brought in contact with the inner edge of the plate H when the fastener is cross locked as shown in Figs. 1, 2, 3 and 4 by which the meeting rails B″ C′ of the sashes B, C, are held together so as to prevent rattling of the sashes when so locked together as well as preventing drafts of air at such connection of the inner and outer sashes.

f′ is a strengthening rib on the under side of the lever F which rib is adapted to lie in contact with the under side of the link or lever G when the invention is cross locked as shown in Figs. 1 and 2.

The invention may be operated as follows: When it is desired to cross lock the sashes as shown in Figs. 1, 2, 3, and 4, the pivoted block E is retained in the position shown in said figures and the lever F swung inward through the opening *h* in the lock block H and moved

laterally below the projection h'' after which the lever G is swung in position as shown in Figs. 1, 2, 3 and 4 and held in position by confining it in the notch or recess h in the block H as fully shown in said figures.

If it is desired to side lock the improved fastening the levers F, G, and the pivoted block E are swung to the positions shown in Figs. 8 and 9, thereby holding the window sashes securely held and locked together; and in such position the projection f' on the lever F extends over the upper edge of the lever G thereby preventing the latter from passing by lever F and thus locking the sashes together; and also preventing the possibility of opening the window any distance unless the levers F, G, are turned to the right.

If it is desired to unlock the lever G from the lock bolt H, all that is necessary to do is to swing the levers F, G, to the position shown in dotted lines in Fig. 9 when the flattened shank G' on the lever G may easily be disconnected from the bolt H simply by sliding or swinging it out of the notch or recess H' as shown.

If it is desired to adjust the outer or inner sashes without securing either of the same in the locked position I swing the levers F, G, to the position shown in Fig. 5, when the inner and outer sashes may be moved freely by each other for the purpose of ventilating the room at such time when no locking of the sashes is required.

When it is desired to secure the upper and lower sashes in a partially open position so as to ventilate the room at the top of the upper sash, at the bottom of the lower sash, or at the top of the upper sash and bottom of the lower sash as shown in Fig. 10 causing the sashes to be locked in such partially open position by swinging the locking links F, G, into the vertical position as fully represented in said Fig. 10; and in such position a projection or extension f'' on end of lever F prevents the levers F, G, from being swung too far beyond a vertical or nearly so position.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

1. The herein described window fastener consisting of a fulcrum piece E pivoted to one of the sashes and a notched lock plate H secured to the other sash and having shoulder k'' combined with a link F pivoted to the piece E and having a locking projection f and a link G pivoted to the link F substantially as and for the purpose set forth.

2. The herein described window fastener consisting of a swinging fulcrum piece F loosely journaled in a plate on one of the sashes, and a lock plate H secured to the other sash and having the notches h h' and H' H'' and shoulder h'' combined with a link F pivoted to the piece E and having a locking projection f, and a link G pivoted to the link F and having a flattened projection G' adapted to be introduced in the notch H' and locked into the enlargement H'' on the lock plate H substantially as and for the purpose set forth.

3. The herein described window fastener consisting of a pivoted fulcrum piece E on one of the sashes and a notched locking plate H secured to the other sash and having shoulder h'' combined with a link F pivoted to the piece E and the link G pivoted to the link F and means substantially as described for unlocking the fastening as well as for locking it cross way to or in a line locked in a partially open position as herein with the sashes and for holding the sashes set forth and for the purpose specified.

4. The herein described window fastener consisting of a fulcrum piece E on one of the sashes and a notched locking piece H on the other sash and having shoulder h'' combined with a link F pivoted to the piece E and having a locking projection f and side rib f' and a link G pivoted to the link F substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 28th day of March, A. D. 1894.

CHARLES M. FOWLER.

Witnesses:
ALBAN ANDRÉN,
LAURITZ N. MÖLLER.