No. 609,904. Patented Aug. 30, 1898.

F. H. PETERS.

SASH FASTENER.

(Application filed May 20, 1895.)

(No Model.)

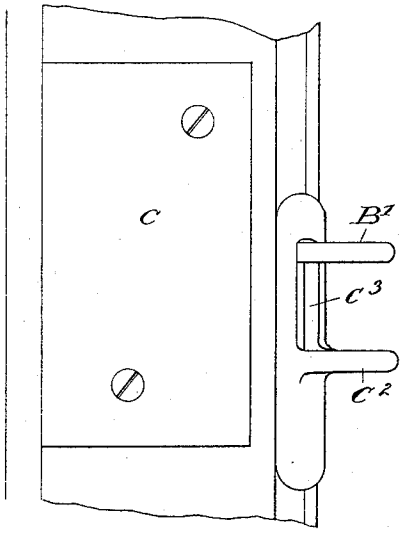


Fig. 1

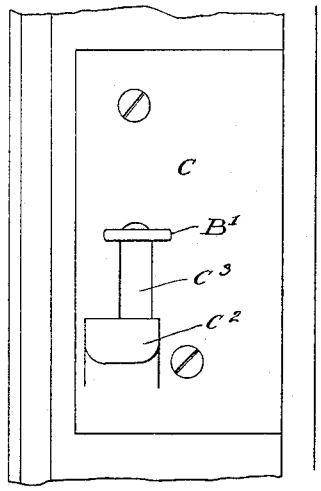


Fig. 2.

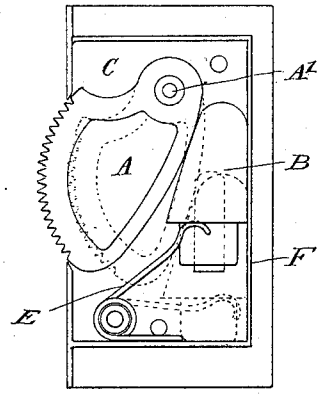


Fig. 3

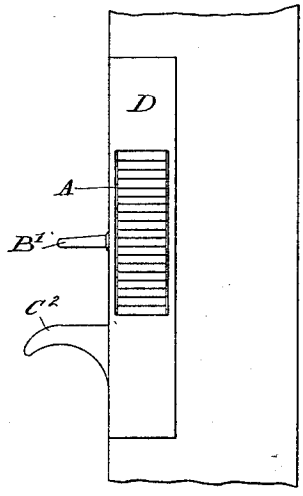


Fig. 4

Witnesses
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UNITED STATES PATENT OFFICE.

FRANK H. PETERS, OF MONTREAL, CANADA, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO ELMA PETERS, OF SAME PLACE.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 609,904, dated August 30, 1898.

Application filed May 20, 1895. Serial No. 550,021. (No model.)

To all whom it may concern:

Be it known that I, FRANK HENRY PETERS, builder, a subject of Her Majesty the Queen of Great Britain and Ireland, residing in the city of Montreal, in the Province of Quebec, in the Dominion of Canada, have invented a new and useful Sash Lift, Balance, and Lock, of which the following is a specification.

Reference is made to the annexed drawings, in which—

Figure 1 shows the invention applied to the upper sash of a window. Fig. 2 shows the same applied to the lower sash. Fig. 3 gives the mechanism in detail. Fig. 4 is a side view.

My invention relates to sash or window fittings, and has for its object the combination of a means of lifting or lowering a sliding sash or door and a means for holding the sash or door at any desired position and at the same time locking the same.

In the construction of my invention I make use of a toothed piece of metal made in the shape shown in the drawings at A, which is pivoted to the plate C at A′. This piece A when free to hang loose does not project through the opening of the plate D.

A wedge-piece B, working between the lock-piece A and the plate F, has a push B′ attached to it through the slot C^3 in the front plate C or through the side plate F and the sash-frame and a lifting-hook C^2 or projection situated at the bottom of the slot C^3. The side plate D has an opening through which the lock operates. A spring E is adjusted to press upon the thick end of the wedge B and force it upward.

In connection with the lock-piece a rack G with intermeshing teeth may be fitted in the frame of the window.

The operation of the device is as follows: The wedge B being forced up by the spring E causes the lock-piece A to swing out of the opening until it reaches its full play or meets with resistance. It is in ordinary practice made to project three-sixteenths of an inch at its maximum. Wherever it stops, it is firmly locked by the wedge B and can only be unlocked by lowering the wedge B by means of the push B′. When the wedge is lowered, the lock-piece A swings into the box by its own gravity and allows the sash or door to be moved up or down, as desired.

The device is fitted firmly in the side of the sash or door, and by preference one is fitted on each side of the sash or door.

In order to adapt the device to the upper half of a sliding sash, the push B′ and the lifting-piece C^2 are fitted on the molding of the sash, so that the lower half of the sash can slide past the upper half. Otherwise the projection of C^2 on the upper sash would obstruct this operation. By means of this device all chains, weights, and pulleys such as are now in use for balancing the sash at any particular height may be done away with. It also is a substitute for the lifting handles or hooks as now required for raising the lower half of a window. It is an entirely new means of locking the sash automatically in any position. No effort is required to obtain that end. The locking takes place wherever the sash is stopped, so that I consider adjustable locking to be a great improvement over the present forms of sash-locks, which can only be effective when the window is closed.

My device will allow the sash to be locked when open to any degree.

Another important advantage of my invention is that it will adjust itself to the shrinkage of the frame of the sash and will always hold the sash firmly. By this means it will prevent the rattle and vibration of the sash, which are now such a common trouble and so difficult to overcome, owing to the shrinkage of the sash and frame.

It is specially suitable for bank-tellers' wickets, owing to its ready automatic and adjustable locking.

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

In a sash-lock the combination of the pivoted toothed lock-piece A, wedge B, spring E, push B′, and lifting-hook C^2 as and for the purposes described.

Montreal, May 13, 1895.

FRANK H. PETERS.

Witnesses:

HANBURY A. BUDDEN,

ROBERT HILDRETH.