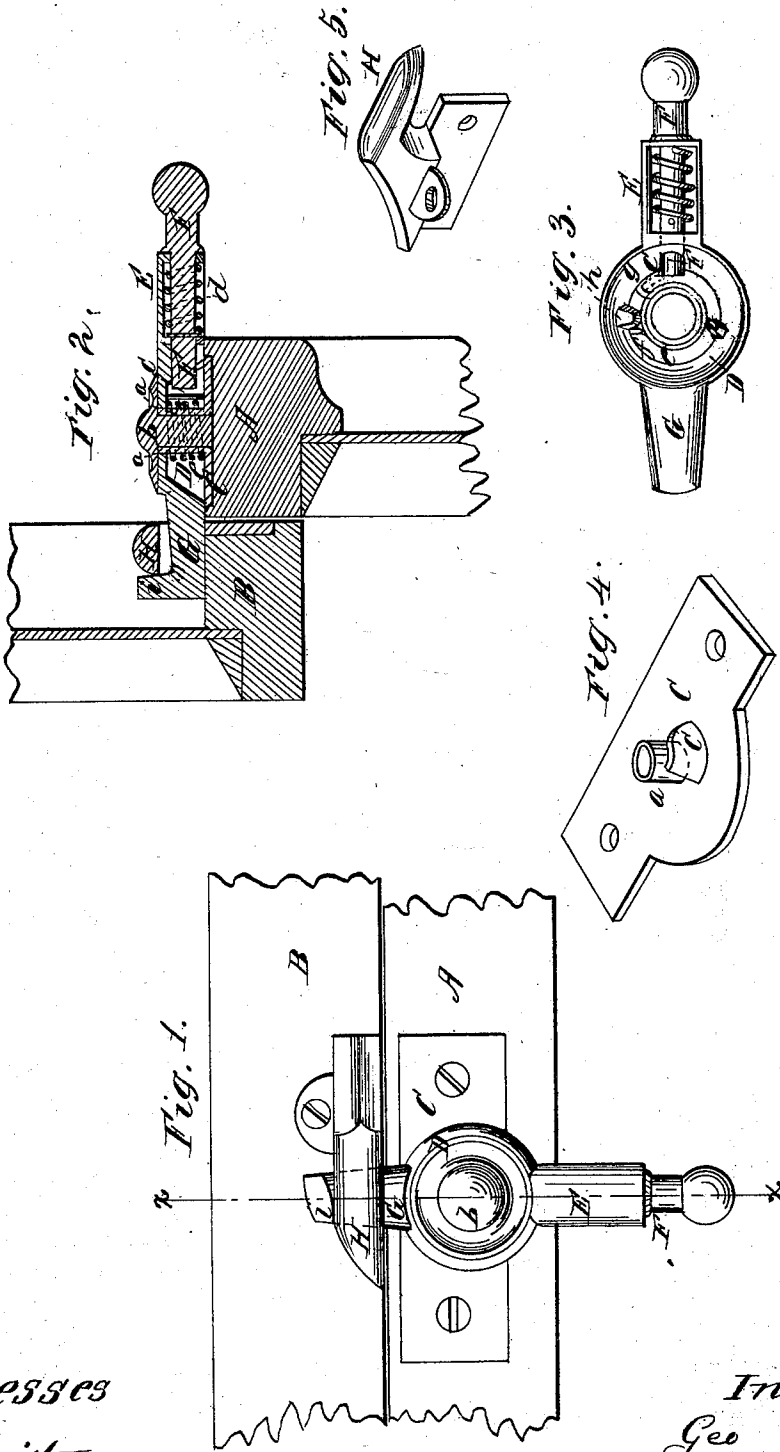


G. MCGREGOR & G. VOLL.
SASH LOCK.

No. 88,318.

Patented Mar. 30, 1869.



Witnesses
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GEORGE MCGREGOR AND GEORGE VOLL, OF CINCINNATI, OHIO.

Letters Patent No. 88,318, dated March 30, 1869.

IMPROVEMENT IN SASH-LOCK

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, GEORGE MCGREGOR and GEORGE VOLL, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and useful Sash-Lock; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of our sash-lock, secured to the top and bottom rail of the upper and lower sash for windows;

Figure 2, a vertical section of the same, taken in the line *x x* of fig. 1; and

Figures 3, 4, and 5, are detail views.

The nature of our invention consists in the peculiar construction and arrangement of a sash-lock, by means of which both the upper and lower sashes of a window are securely held closed, and at the same time the two meeting rails are kept closely together, thus preventing any vibration of the same.

To enable those skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

A represents the top rail of the lower sash, and

B, the lower rail of the upper sash.

C, the base-plate of the lock, which is screwed on to the top of the rail A.

D is a circular hollow case, which rests on the base-plate C.

a is a hollow shaft, which is a part of the base-plate C.

In the top of the case D is an opening, through which the upper end of the hollow shaft *a* passes.

The case D is held on the base-plate C by means of the bolt *b*, which passes through the hollow shaft *a*, and is riveted to the plate C, the case D being allowed to play freely around the said hollow shaft.

E is a hollow arm, which is an extension of the case D, in which is placed the bolt F.

Inside of this hollow arm E, and around the bolt F, is a spiral spring, *d*, one end of which rests against the outer end of the arm E, and the other, against a pin passing through the bolt F.

On the base-plate C is a segment, *c*, against which the end of the bolt F rests.

Inside of the case D, and around the hollow shaft *a*, is a coil-spring, *e*, the ends *f g* of which are turned outward, the end, *f*, resting against the leg *h*, on the inside of the case D, and its other end resting against the segment *c*, on the base-plate C, as seen in fig. 3.

On the side of the case D, opposite the arm E, is another arm, G, on the outer end of which is a projection *i*, which extends upward.

To the rail B is secured a striking-plate, or catch, H, of the form shown in fig. 5.

By making it in this form, it is secured, both to the top and side of the meeting-rail of the upper sash, the screws entering at right angles to each other, thus securing it firmly.

Its operation is as follows:

When the sash is unlocked, the arms E and G are parallel to the edges of the meeting-rail of the lower sash.

To lock the sash, take hold of the outer end of the bolt F, and, by turning it towards you, the arm G is thrown around over the top of the meeting-rail of the upper sash, passing under the catch H and the projection *i* on the said arm, passing outside and against the said cam-shaped catch, as seen in fig. 1, thus drawing the two sashes closely together.

As soon as the inner end of the bolt F has passed the end of the segment *c*, it is forced inward by the spring *d*, thus securely locking the sash. To unlock it, draw out the bolt F until its inner end reaches the outside of the segment *c*, when the spring *e* throws the bolt and arm E and G back into their former positions.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

In a sash-bolt, the arrangement and combination of the base-plate C with the segment *c* thereon, case D spring-bolt F, arm G, and catch H, as shown and described, for the purpose specified.

GEORGE MCGREGOR.
GEORGE VOLL.

Witnesses:

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