

H. Fichel,

Sash Fastener.

No. 106928.

Patented Aug. 30. 1870.

Fig. 1

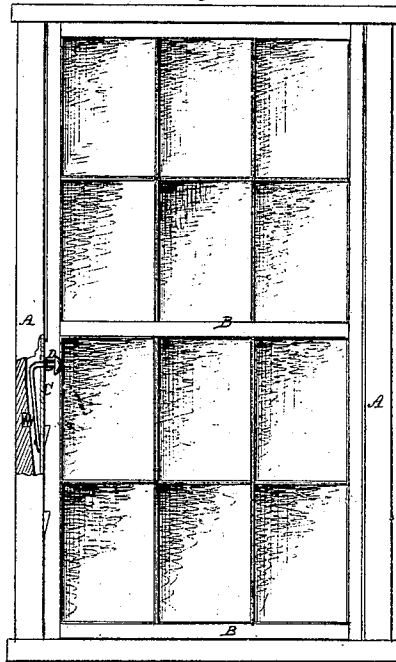
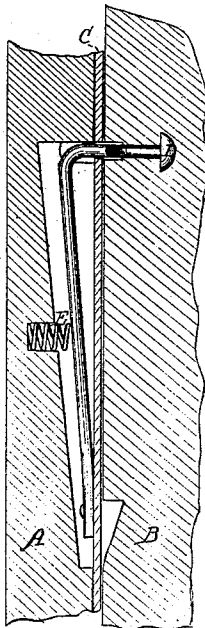
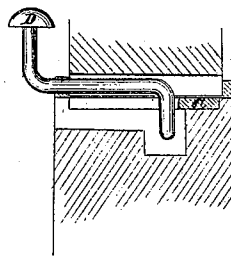


Fig. 2.



Witnesses.
A. Ruppert.
G. F. Clausen

Fig. 3.



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HENRY FICKEL, OF DAYTON, OHIO, ASSIGNOR TO HIMSELF AND DAVID G. BROWN, OF SAME PLACE.

Letters Patent No. 106,928, dated August 30, 1870.

IMPROVEMENT IN SASH-FASTENERS.

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

To all whom it may concern:

Be it known that I, HENRY FICKEL, of Dayton, in the county of Montgomery and State of Ohio, have invented certain Improvements in Sash-Fasteners; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is an elevation of a window and its frame, a portion of the frame being broken away to show my improved device and the manner of applying the same.

Figure 2 is an elevation, showing the spring, the plate to which it is attached, and a portion of the window-frame and sash.

Figure 3 is a transverse section of the same, showing the construction and arrangement of the upper or outer end of the spring, as a consequence of which it is brought to the proper position for being pressed upon when the position of the window-sash is to be changed.

Corresponding letters refer to corresponding parts in the several figures.

This invention relates to window-fasteners; and

It consists in the combination of its parts, as will be more fully described hereinafter.

In sash-fasteners of a character similar to this, it has been customary to fasten the spring directly to the window-frame with screws, which has been found to be objectionable from the fact that the weight of the window, as it rests upon, and sometimes falls upon it with considerable force, has a tendency to loosen the spring, and thus render it incapable of performing its functions.

My invention is intended to provide a remedy for the above-recited objection, which consists in providing a plate of metal to which to attach the lower end of the spring, and also to form a support for the upper bent end of such spring, so that, as the spring is in position for use, the weight of the window may rest upon such bent portion of the spring, it being supported by resting upon the plate.

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

A in the drawing refers to the frame of a window, which may be of any desired form of construction, and of any dimensions required.

B refers to a sash of a window, which may also be of any desired form of construction, and of a size to contain any number of panes.

C refers to a plate of metal, which is to be firmly secured to the surface of the frame, against which the window-sash slides in its movements up and down, a recess being formed therein to receive it and the spring, as shown in fig. 2 of the drawing.

To the lower portion of this plate a spring is firmly secured, either by riveting or by bolting, while near its upper end a slot is formed from one of its edges to or past its center, so that, when the spring is in position to support the window, its upper bent portion may rest upon, and be supported by the lower surface of said slot.

D refers to a spring, its lower end, as above stated, being riveted or bolted to the plate C, from which point it extends upward to a point opposite the slot in said plate, when it is bent outward, in which direction it extends for a distance sufficient to enable it to pass through said slot, and project beyond said plate far enough to enter a recess or recesses formed in the sash, or in a plate of metal attached thereto, so that, as the window is raised, it may rest upon said projecting part of the spring, while it is supported upon the plate.

From the last-described point the spring extends horizontally to and slightly beyond the outer edge of the sash, where it is again bent outward, and has its outer end provided with some suitable enlargement, against which to press with the hand when it is desirable to force the spring away from the sash, so that it may be raised or lowered.

E refers to an additional spring, which may be used in cases where it is found that the spring D has not the required amount of strength or force, but which is not a necessary part of my invention.

What I claim, and desire to secure by Letters Patent, is—

The sash-fastener herein described, consisting of the slotted plate C and spring D, which latter is bent near its loose end to form a transverse bar, extending through the slot in the plate for the purpose of engaging the notched window-sash, and terminates in a projecting knob by which to operate it, substantially as shown and set forth.

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

HENRY FICKEL.

Witnesses:

JOHN SCOTT,
PHILIP KLOPPER.