

J. W. Hansel,

Sash Holder.

No. 88,164.

Patented Mar. 23, 1869.

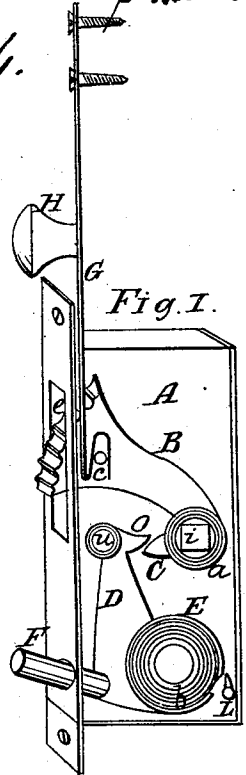


Fig. I.

Fig. I.

Cancelled

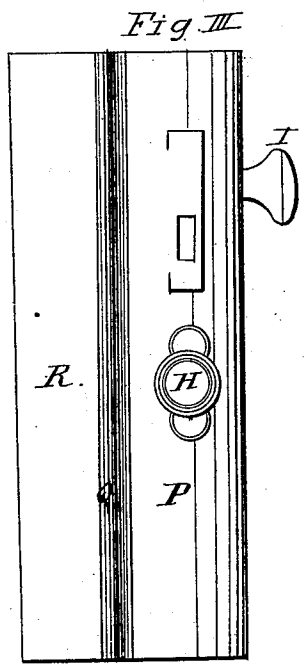


Fig. II.

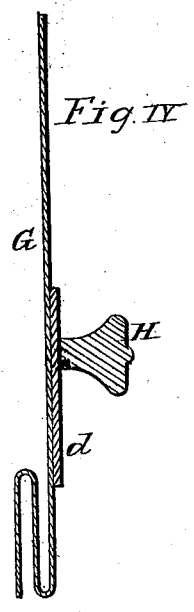


Fig. IV.

Witnesses

S. Pratt.

Wm. C. Locke.

Inventor

John W. Hansel

United States Patent Office.

JOHN W. HANSEL, OF PEORIA, ILLINOIS.

Letters Patent No. 88,164, dated March 23, 1869.

IMPROVEMENT IN SASH-HOLDER.

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, JOHN W. HANSEL, of the city of Peoria, in the county of Peoria, and State of Illinois, have invented a new and improved Window and Door-Lock and Sash-Holder; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the employment of a knob and spring located and combined in such a manner as to operate simultaneously a cam-lever and suspension-bolt, so that the sash of a window may be raised and locked at any desired elevation, or when the window-sash is lowered, it is, by means of the action of the said spring, automatically secured in its position.

It further consists in the use or employment of a suspension-bolt, provided with a lug, of peculiar form, located so as to be operated by means of a wheel, provided with pintles. In this lock is also provided a dog, which is made to turn out and into a notch that is made in the suspension-bolt, so that the said bolt cannot be moved without the use of a suitable key.

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

Figure I is a perspective view of my improved lock and sash-holder.

Figure II is a plan view of the lock.

Figure III is a side elevation of a portion of the casing and sash, with the lock and sash-holder in position.

Figure IV is a side elevation of the spring and knob. Letters of like name and kind refer to like parts in each of the figures.

A represents the frame, or body of my improved lock and sash-holder, that may be made of any of the sheet-metals suitable for the purpose, and of any desired dimensions, the design of which is to be mortised into the side of the jamb-casings of windows and the edges of doors, so that the lock will come even with the surface of the casings and edge of the door.

B represents an arm, or lever of peculiar and novel form, that moves on a pivot-joint at *a*.

The outer end of this said arm is made eccentric in form, with its end, or periphery fluted, as seen at *e*, Fig. I, so as to readily engage the edge of the sash when performing the functions designed.

C is an oval lug, or projection, extending outward from near the joint *a*, the object of which is to engage a corresponding projection, O, attached to a swinging pendent bolt, D.

The said bolt D works on a joint at *w*, and is provided with a weight, E, so that it will operate more readily by means of gravitation.

F is that portion of the pendent, or suspended arm,

that forms the bolt, that engages a mortise or hole in the edge of the sash.

G is a spring designed to act upon the pin *c*, which is attached to the arm-lever B.

The said spring is constructed in such a manner as to adjust or accommodate itself to the said pin *c* when the spring is worked in or out.

i is where the shank of the knob is inserted to turn and operate the arm, or lever B.

The arm, or lever B, and the suspension-bolt D, are simultaneous in their movements.

H is a knob secured to the spring G that extends outside the casing, which is to be used when the blinds are upon the outside of the windows.

In Fig. II is seen a door-lock without the sash-holder. In this figure, J is the lock-plate, with the cap removed.

K represents a pendent, or suspension-bolt, of nearly the same peculiar and novel form as that shown in Fig. I.

This suspension-bolt forms a dead-lock when in its position, and firmly secured by means of a dog, L. When in position of being locked, the dog is thrown over into the notch *b*, which holds the said bolt firmly in a locked position.

The said dog L is operated, or turned by means of a suitable key, made in any desired form, to operate the dog.

The suspension-bolt is ordinarily operated by means of tappets *n n n n*, on the wheel W, by the said tappets, or lugs engaging with the curved projection M on the suspension-bolt K.

In Fig. III, P represents a portion of a window-casing.

Q, the bead-stop for the sash, with my improved lock applied thereto.

On the spring G, I put another piece of metal, *d*, for the purpose of giving additional strength to the spring, and to which it is firmly secured.

It will be observed that my invention, as represented in Fig. II, is peculiarly adapted to doors, making a reliable, secure, and cheap lock, by means of the dog L.

I do not claim broadly the arm, or lever, and suspension-bolt, as shown in Fig. I, as Letters Patent were granted me for these features of my invention, January 14, 1868; but

What I do claim as new, and desire to secure by Letters Patent of the United States, as an improvement on the patent above referred to, is—

The spring G, provided with the knob H, in combination with the arm B and suspension-bolt D, and dog L, all arranged and operating as herein shown and described, and for the purposes set forth.

JOHN W. HANSEL.

Witnesses:

WM. C. LOCKE,
J. C. LAWRENCE.