

W. G. COOK.
SASH-FASTENER.

No. 174,489.

Patented March 7, 1876.

Fig. 1.

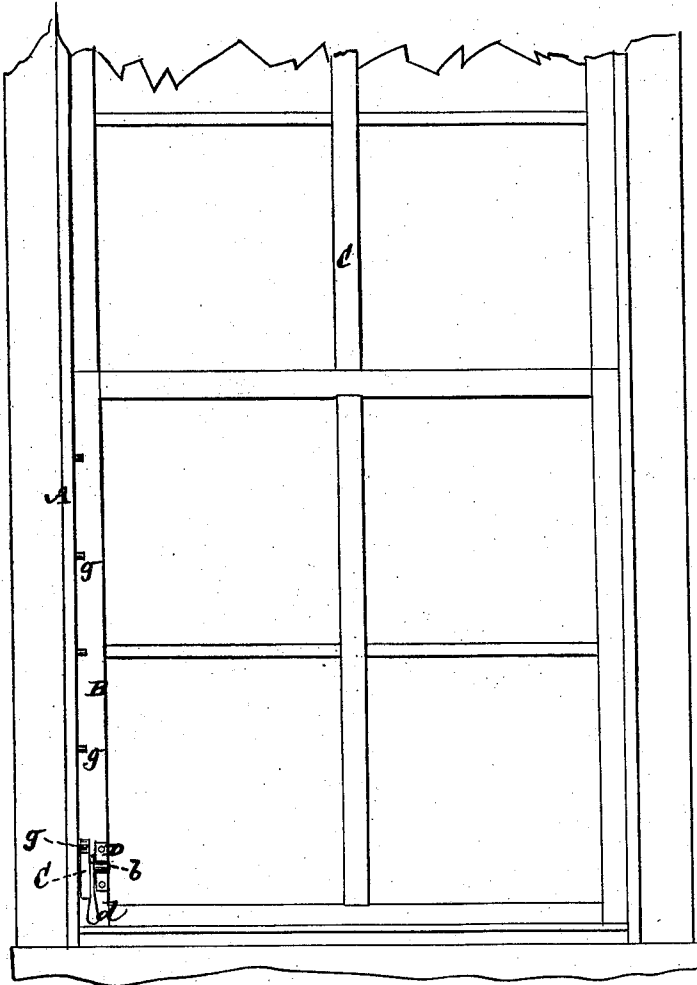


Fig. 2.

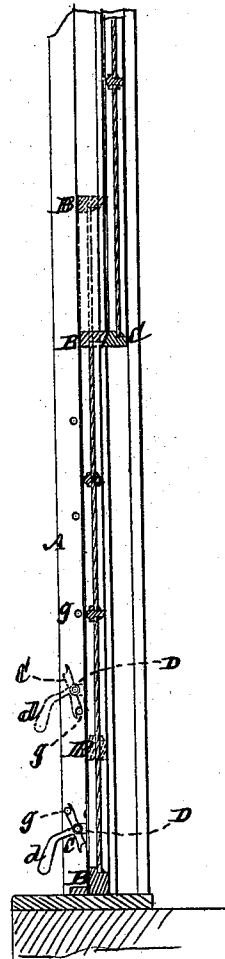
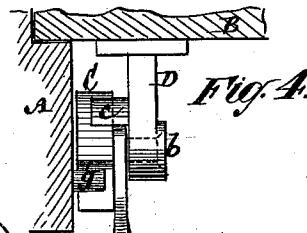
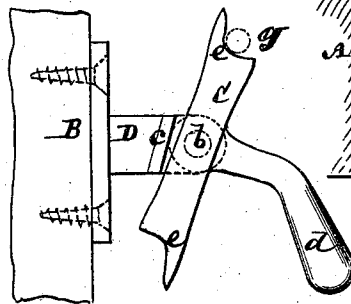


Fig. 3.



Witnesses
John Becker
Fred Haynes

Wm. G. Cook
By his Attorneys
Brown & Allen.

UNITED STATES PATENT OFFICE.

WILLIAM G. COOK, OF JERSEY CITY HEIGHTS, ASSIGNOR TO SYLVANUS LYON, OF SPRINGFIELD, NEW JERSEY, AND ANSON B. HOYT, OF YONKERS, NEW YORK.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. 174,489, dated March 7, 1876; application filed November 10, 1875.

To all whom it may concern:

Be it known that I, WILLIAM G. COOK, of Jersey City Heights, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Sash-Fasteners; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, which forms part of this specification.

This invention relates to gravitating sash fastenings or holders pivoted to the sash, and locking with or between stops on the window-frame.

The invention consists in a combination of a pivoted gravitating double catch having reverse notches on its opposite ends, a catch-holder carrying the same and attached to the sash, and a series of irregularly-arranged stops on the window-frame for arresting either end of the catch to hold the sash up or down and closed or open, as required.

Figure 1 represents a window-frame having upper and lower sashes, with my improvement applied to the lower sash. Fig. 2 is a vertical section in a plane at right angles to the window, with the lower sash as stopped and locked by my improved device in different positions. Fig. 3 is a side view, and Fig. 4 a horizontal section in part, both upon a larger scale, of a window-sash having my improved sash-fastener applied.

A is the window-frame, having a raising and lowering bottom sash, and an upper sash. Secured to the face of the lower sash, on its one side, is a sash-catch carrier, D. This carrier serves to support in a swinging manner, as by a pivot, *b*, a double catch, C, having said pivot, which may either be fast to the catch or not, arranged immediately of the length of it. Such double catch is supported by the carrier D, so that it is restricted by a back rest, *c*, from swinging but slightly from an upright position, and it is furthermore provided with a handle, *d*, which operates also as a weight to pitch and hold the catch in a stopping and locking position with studs or stops *g* on the window-frame.

The two ends of the double catch are notched or cut away, as at *e e*, which notches are in a reverse relation with each other, and the stops *g* on the window-frame are arranged out of line with one another, or, where more

than two of such stops are used, so that the lower series of said stops will be out of line with the upper series thereof, in order that the reverse notched ends of the catch will lock, respectively, with the stops to hold the sash open or closed, or in any intermediate position, according to the number and disposition of the stops.

In Fig. 2 of the drawing the lower sash is represented, in full lines, as locked when closed by the upper notched end of the double catch falling under one of the stops *g*, and is further represented in dotted lines as locked when partly open or raised by the lower notched end of the double catch falling over another of the stops *g*.

The stops with which the lower notched end of the double catch-lock are arranged closer to the sash than those stops with which the upper notched arms of the catch, for the double purpose of insuring the automatic locking of the reverse ends of the double catch, by means of its weight or handle *d*, with said stops, respectively, and of allowing the catch C, when lifted by the handle into an upright position, passing in front of the one stop or series of stops *g*, and behind the other, when moving the sash B up or down. On removing the finger, however, from the finger-piece or handle *d*, the latter immediately drops, and the catch is adjusted into an inclined position, and is free to swing away from any stop *g* it may come in contact with by the front face of its upper arm, or back of its lower arm, according to the direction in which the sash is being moved, and so that, after said catch has thus passed or rubbed over and swung away from said stop, its weight or handle *d* will automatically throw it into lock with said stop.

I claim—

The combination of the pivoted gravitating double catch C, having opposite end notches *e e*, arranged in reverse relation to each other, the catch-carrier D attached to the sash, and the stops *g* on the window-frame, arranged out of vertical line with each other, substantially as shown and described.

WILLIAM G. COOK.

Witnesses:

HENRY T. BROWN,
BENJAMIN W. HOFFMAN.