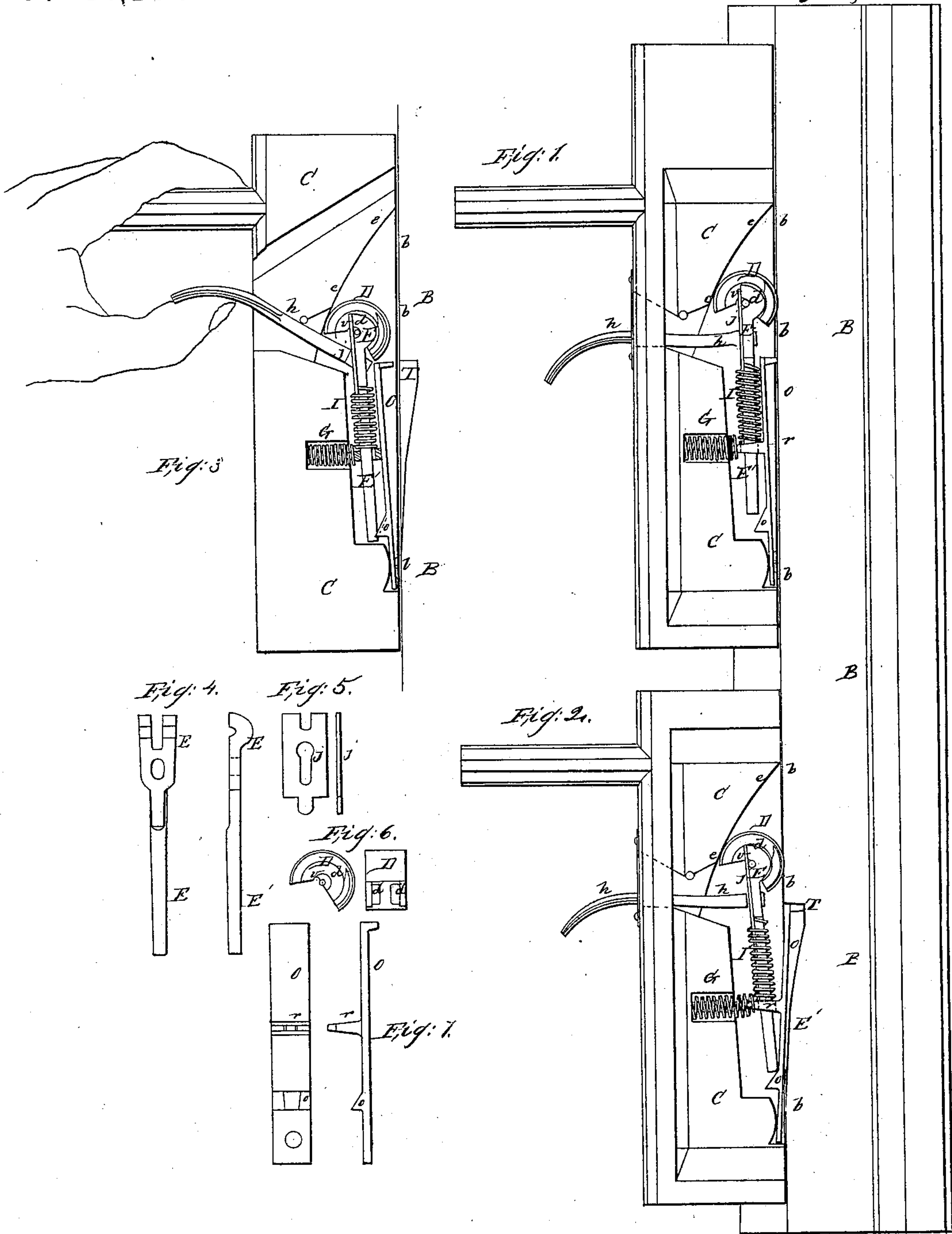


T. Williams,
Sash Holder.

N^o 29,209.

Patented July 17, 1860.



Witnesses:
James H. Sanders
Franc A. Bennett

Inventor:
T. Williams

UNITED STATES PATENT OFFICE.

TURNER WILLIAMS, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HIMSELF AND DAVID HEATON, 2D, OF SAME PLACE.

WINDOW STOP AND FASTENING.

Specification of Letters Patent No. 29,209, dated July 17, 1860.

To all whom it may concern:

Be it known that I, TURNER WILLIAMS, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Window Stop and Fastening; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a view of said stop and fastening when supporting an uplifted sash. Fig. 2, is a like view of the same when the sash is fastened down. Fig. 3, represents the same withdrawn, in sliding the sash up (or down).

Similar letters of reference where they occur denote like parts in the different figures.

The nature of my improvement consists in combining with a roller and inclined plane, serving as a stop or support, by a nipping action, a spring catch, for fastening the sash down by a locking action by means of a shank and spring, for connecting the two devices, whereby both may be controlled, by a single lever, for the purpose of fastening the window both when it is raised and when down.

To enable others skilled in the art to make and use my invention I will proceed to describe the same with reference to the drawings.

B, in the said drawings is a portion of the window frame.

C is a portion of the window sash, surrounding and inclosing the stop and fastening, the same being let into a recess mortised into the edge of the sash, as shown.

The surface *e, e*, in the upper part of the recess, is inclined with respect to the edge *b, b*, of the window frame, forming in connection therewith a hollow wedge. Between these two surfaces is interposed a roller, D, turning on its axis *d*, which has a bearing in the notches formed in the forked portion of shank E, upon each side of the roller. The spindle E' of the said shank is encircled by the spiral spring I, resting upon a projection *r*, through which the spindle slides vertically, thus forming a guide to the roller. The upper end of the spring presses against the lower edge of plate *j*, upon each side of the projecting tongue thereon, and presses the said plate upward

against, and into a notch formed in the rib-plate of the roller, at *v*, the upper edge of the plate *j* being notched to take in the said rib-plate, and project above the edge upon each side thereof, by which arrangement the action of the spring serves to press the roller upward against the surfaces *e, e* and *b, b* and to present the same points of contact upon the face of the roller, constantly, to be acted upon by the said surfaces.

The inner or straight end of lever *h*, has a depression upon each side and is inserted in the opening in the plate and confined by the side of the same and by the hole opposite in the shank.

The roller is formed as shown in the drawings—that the part of the shank forming the bearings of its axis shall not be of greater width than the face of the roller for the accommodation of which, a wider recess would be required; and the arrangement of the plate *j* therewith, in connection with spring I, is employed simply to render such a construction of the roller equally effective with an entire revolving cylinder, and is therefore a mere matter of construction, for the sake of economy.

The parts thus far described constitute the window stop and support. Of these parts, or elements, the roller and inclined surface, acting with the window frame, have before been employed for the purpose of supporting an uplifted window, in a sash supporter patented by Chas. H. Dana, August 5th 1856, but without being combined with any equivalent of the shank E, for guiding the roller, or of the spiral spring I, for pressing the said roller into constant action or contact. The roller and inclined surface thus combined and qualified, has also been known and used before, the same being fully described and claimed, in the schedule forming a part of the Letters Patent granted to me the said TURNER WILLIAMS bearing date of October 26th 1858.

The window is fastened down by means of the catch piece O, formed as shown in Fig. 7. It is confined at the lower end—within the recess—by a screw, though but loosely. The upper end is furnished with a projection which is made to enter the notch T in the window frame, by the direct action of spring G, against the projection *r*, arising from the inner surface of the catch piece, thereby producing a locking effect and

effectually fastening the window down. Through a hole formed in the projection *r*, passes the spindle *E'*, downward until it meets the base of the wedge shaped projection *o*, upon the catch-piece, as shown in Fig. 2. By this arrangement the action of the stop, is combined with that of the catch piece and each in a certain degree is made dependent upon the other. Thus, when the lever *h*, is pressed upward by the finger, as shown in Fig. 3, the lower end of spindle *E'*, slides down the surface of the wedge *o*, thereby withdrawing both the roller and catch piece from contact with the window frame, preparatory to raising the window or when sliding the same in the frame. When the stop is acting alone, as shown in Fig. 1, projection *r*, assumes a position directly beneath the axis of the roller, and there sustains and directs the action of the spring, *I*.

The catch piece above described is a well known device, as a window fastening, either forming a spring of itself or subjected to the direct action of a spiral spring from beneath, and of itself, is not my invention.

The arrangement of the parts constituting the above described window stop and fastening is susceptible of many variations, without altering the nature of the invention, or

destroying the combination therein employed.

I do not claim separately, a lever with a roller upon an axle or pivot arranged and operating in an inclined groove, the same having been previously patented by Chas. H. Dana, August 5th 1856.

I do claim a window stop, consisting of a roller, a shank, a spring, and a lever or their equivalents in combination with an inclined surface, irrespective of the combination hereinafter set forth, as that is the subject of a separate patent granted to me on the 26th of October 1858.

Neither do I claim singly a spring catch as a window fastening.

I claim—

Combining with a roller and an inclined surface, serving as a stop and support by a nipping action; a spring catch having a locking action, by means of a shank or guiding piece, and a spring or constant force, whereby both the said roller, and the spring catch may be controlled by a lever attached to the said shank: for the purpose substantially as herein set forth.

TURNER WILLIAMS.

Witnesses:

JAMES H. PARSONS,
ISAAC A. BUNNELL.