J. ANDREWS.

Improvement in Sash-Holders.

No. 130,269. Patented Aug. 6, 1872.

Fig 1.

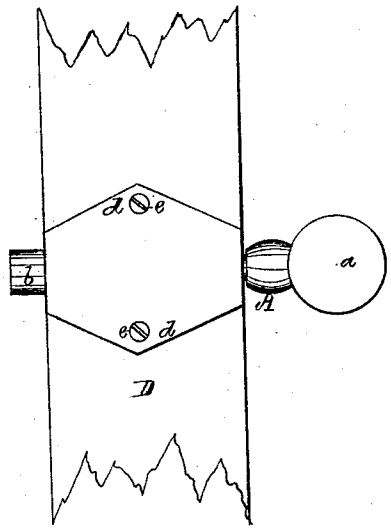


Fig 2.

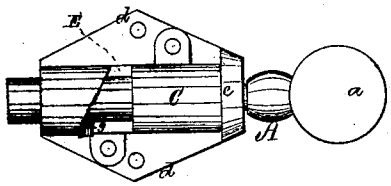


Fig 3.

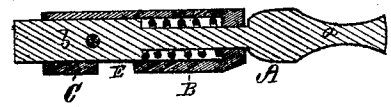


Fig 4.

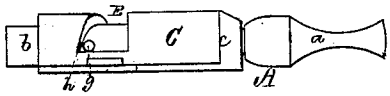


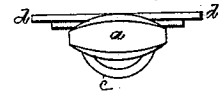
Fig 5.



Fig 6.



Fig 7.



Witnesses.

S. N. Piper

L. N. Miller

John Andrews.

by his attorney.

R. Eddy

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

JOHN ANDREWS, OF MARLBOROUGH, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND ASHLEY BRIGHAM, JR., OF SAME PLACE.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **130,269**, dated August 6, 1872.

To all persons to whom these presents may come:

Be it known that I, JOHN ANDREWS, of Marlborough, of the county of Middlesex and State of Massachusetts, have invented a new and useful Sash Bolt and Fastener; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a view of it as applied to the left vertical bar of a window-sash. Fig. 2 is a rear side view of it, and Fig. 3 is a longitudinal section of it as separated from the sash-bar. Figs. 4 and 5 are edge views of it. Figs. 6 and 7 are end views of it.

This fastener is intended to secure the sash at any desirable elevation within the range of its motion or at either extreme thereof, it being understood that there are to be in the window-frame of such sash one or a series of bolt-holes for reception of the bolt, in order for it to lock the sash to the frame.

The bolt A is cylindrical, and constructed with a handle, *a*, and a shank, *b*, arranged as shown, the space about the shank being to receive a helical spring, B, one end of which is to rest against a shoulder, *c*, and the other of which against the rear end of the bolt-case, all being as shown. The said bolt-case is exhibited at C as formed tubular to receive the bolt-guide in its longitudinal movements, and admit of it being revolved transversely to its axis, either in one direction or the opposite, one hundred and eighty degrees of a circle or thereabout. Furthermore, the said case is provided with ears *d d* extended from or making part of it, as represented, and being to enable it to be secured to the sash-bar D by screws *e e* going through such ears and being screwed into the bar, the latter being duly socketed to receive the case. Such case also has a trapezoidal opening, E, made through or in it, in manner as shown, there being extended into such opening a stud, *g*, projected from the bolt. The bases of the said trapezoidal opening serve as stops to arrest, by means of the stud *g*, the bolt at the termini of its rotary movements. When the stud *g* is against the lesser base such stud will also rest against the longest side *h* of the trapezoidal opening, and thus the said side and the stud will serve to retain the bolt in its rearmost position—viz., wholly back in the case.

By turning the bolt so as to cause the stud to pass from the longer to the shorter base of the trapezoidal opening the stud will be moved against the oblique side or cam *h* of the opening, and as a consequence will be forced back in the case, the spring within the case and around the bolt operating to advance the bolt when it may next be turned in the reverse direction. The trapezoidal opening admits of the bolt, when the stud is against the longer base or in any position between the two bases of such opening, being retracted by a person's hand applied to the handle of the bolt. Near the lesser base of the trapezoidal opening the oblique side of such opening is formed square to the base for a distance equal to or somewhat greater than the radius of the cross-section of the stud; or such oblique side may be notched a little, such being to insure the bolt from being shot forward by the spring when the stud may be against the lesser base of the opening.

The above-described sash-fastening is to be mortised into the side of the sash and work in openings in the window-frame.

I claim—

The bolt furnished with the stud *g*, which works in the trapezoidal opening E, and with the operating-knob *a*, arranged in line with the bolt itself, and the coiled spring B, said bolt, when in movement, having a longitudinal as well as a rotary motion, all as set forth.

JOHN ANDREWS.

Witnesses:

R. H. EDDY,

J. R. SNOW.