

No. 39,993.

PATENTED SEPT. 15, 1863.

S. HEDGES.
SASH STOP OR FASTENER.

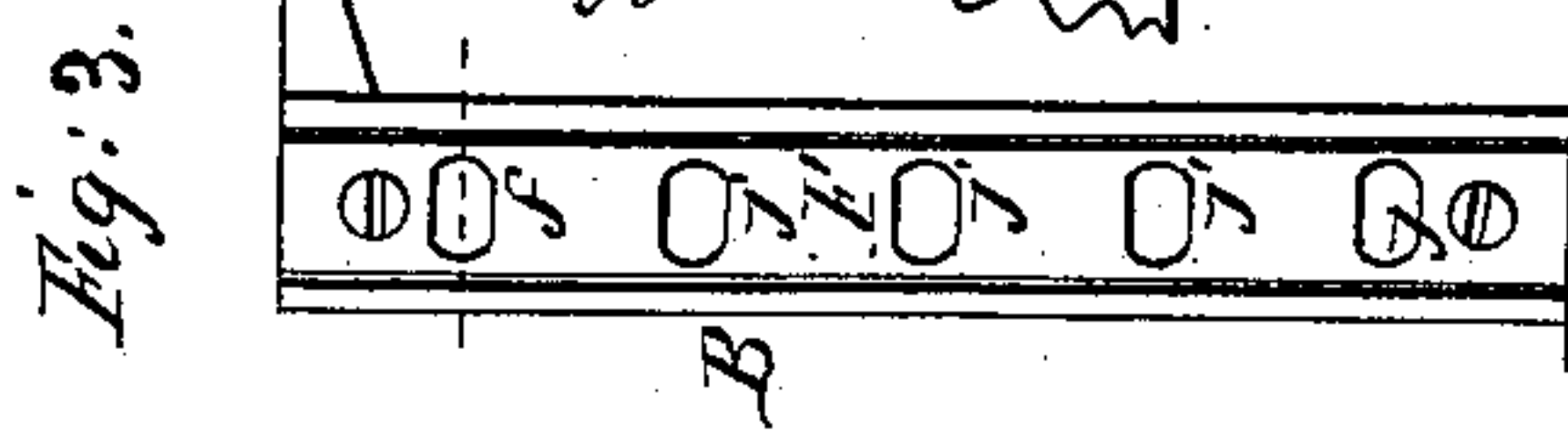
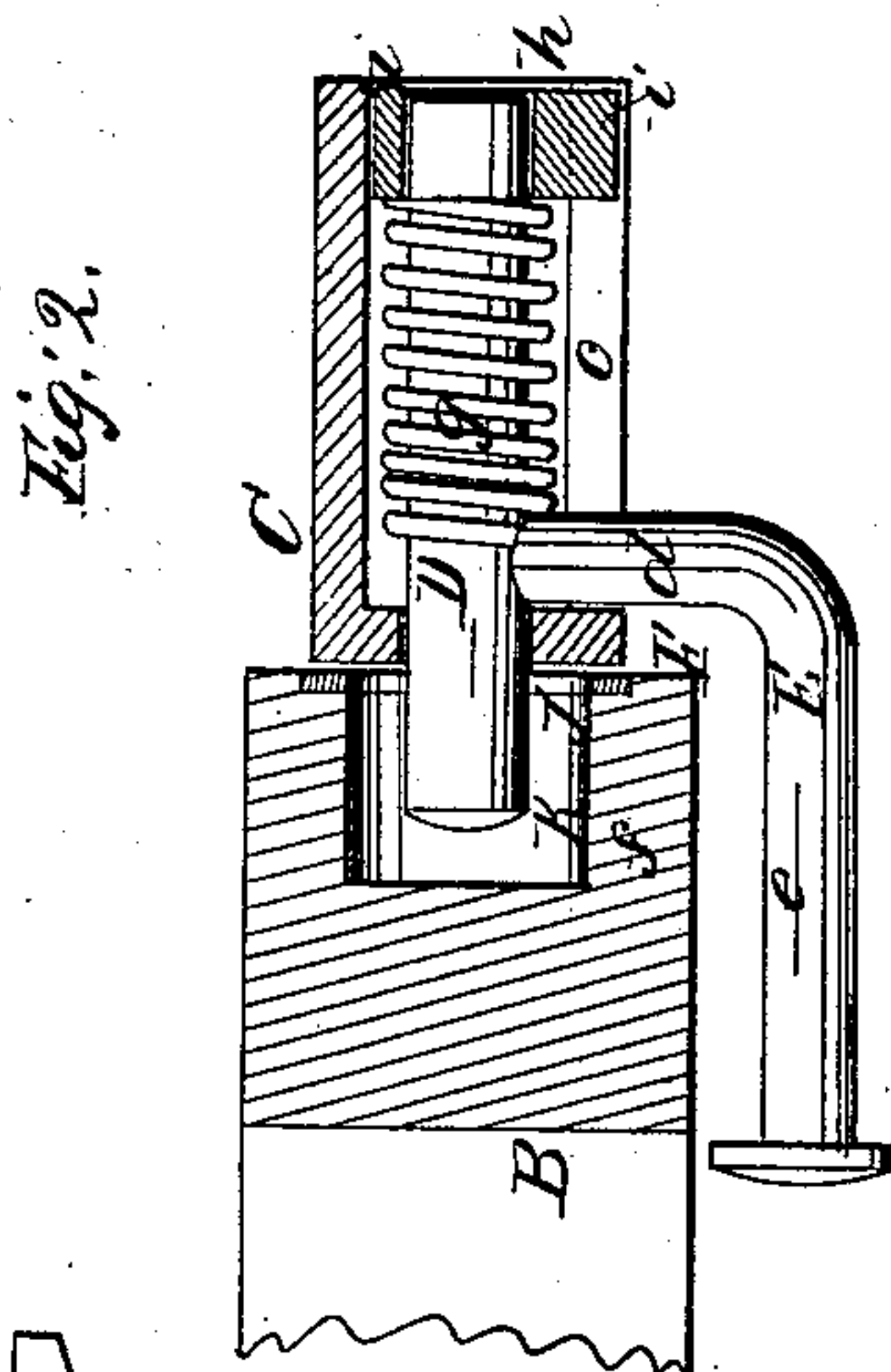
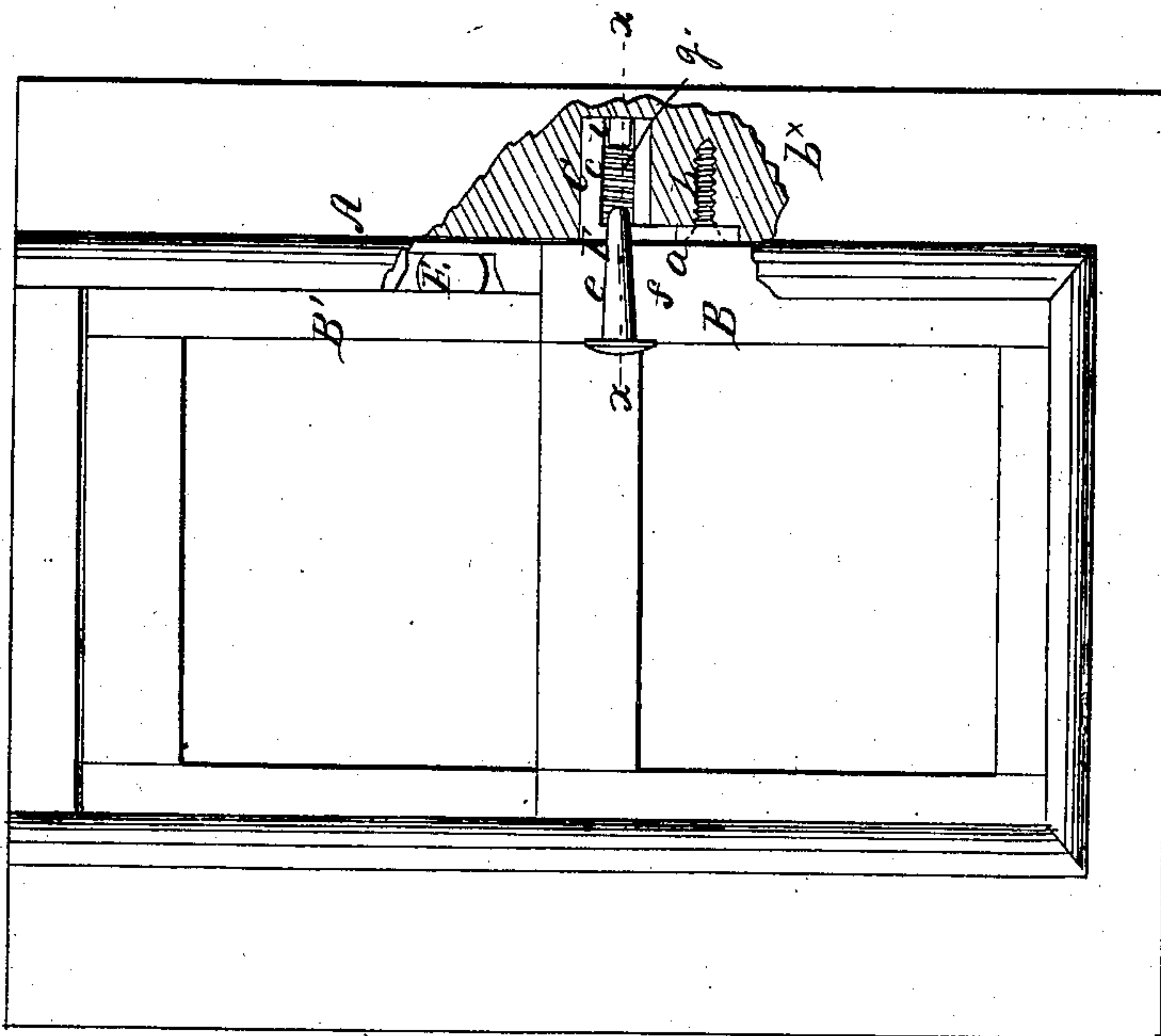


Fig. 1.



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UNITED STATES PATENT OFFICE.

STEPHEN HEDGES, OF HUDSON, NEW YORK, ASSIGNOR TO HIMSELF,
SAMUEL M. LONGLEY, AND SAMUEL B. SMITH.

IMPROVED SASH STOP OR FASTENER.

Specification forming part of Letters Patent No 39,993, dated September 15, 1863

To all whom it may concern:

Be it known that I, STEPHEN HEDGES, of Hudson, in the county of Columbia and State of New York, have invented a new and Improved Window-Sash Stop or Fastening; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of my invention applied to a window, a portion of the frame of the latter being broken away in order to show the invention; Fig. 2, a horizontal section of Fig. 1, taken in the line *x x*; Fig. 3, a detached side or edge view of one of the window-sashes.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement in that class of window-sash stops or fastenings in which a spring-bolt is fitted within a tube or case.

The object of the invention is to obtain a simple mode of constructing the class of stop or fastening above specified, and render the same capable of being more readily applied than hitherto, more economical to construct, capable of being operated with greater facility, and also more substantial.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the framing or casing of a window, and B B' the two sashes thereof, which are fitted in the framing or casing in the usual or any proper way.

C represents the tube or case of the stop or fastening. This tube or case is of cylindrical form, and it may be made of malleable cast-iron or other metal. It is cast at one end with a plate, *a*, which projects down at right angles with C, the former having a hole in it to admit of a screw, *b*, passing through into the jamb *b'* of the window-frame, the tube or case being fitted in a hole bored horizontally into the jamb, as shown clearly in Fig. 1. By this means the tube or case C is firmly retained in position. The tube or case C is open at both ends, and it is cast with a longitudinal slot, *c*, which extends from its back end to the

plate *a*, or nearly to the front end of the tube or case, as shown in Figs. 1 and 2.

D is a cylindrical bolt, which is fitted in the tube or case C, and is sufficiently long to project a certain distance through the front or outer end of the tube or case, said end of the case being flush with the side of the jamb *b'*, into which the plate *a* is embedded by cutting a recess to receive it. The bolt D may be of cast metal—malleable cast-iron—would be preferable for cheap fastenings and the bolt is cast with an arm, E, of curved form, as shown in Fig. 2, one part, *d*, of said arm projecting from the bolt at right angles and passing at right angles, and the other part, *e*, being parallel with the bolt and projecting over the front of one of the side strips, *f*, of the sash. On the bolt D there is placed a spiral spring, *g*, said spring being between the arm E and a collar, *h*, which is fitted in the open end of the tube or case A, and is secured therein by swaging or knocking one or more lips, *i*, from the edge of the tube or case over the edge of the collar *h*, as shown clearly in Fig. 2. The bolt D is allowed to slide freely through this collar *h*. The spring *g* has a tendency to keep the front or outer end of the bolt D out from the tube or case, and the part *d* of the arm E in contact with the plate *a*, as shown in Figs. 1 and 2. The collar *h* is provided or cast with a lug or projection, *i*, which is fitted in the back part of the slot *c*, and prevents the collar *h* from turning in the tube or case. In the side or edge of the sash, in front of the tube or case, there is secured a metal strip, F, in which a series of holes, *j*, are made at suitable distances apart to receive the front end of the bolt D. These holes *j* are of oblong form horizontally, as shown in Fig. 3; and holes *k* are made in the side or edge of the sash in line with the holes *j* in the metal strip F, and of sufficient depth to admit of the bolt D passing into the sash. (See Fig. 2.) By means of these holes the bolt D is allowed to retain or hold the sash at different heights or in a closed state. The sash is raised or lowered by pressing backward on the arm E, and thereby shoving back the bolt D out of the holes in the strip F and sash, the bolt being shoved forward by the spring *g* when the arm E is relieved from the pressure of the thumb

or hand. The metal strip F prevents the edge of the sash being worn or abraded by the pressure of the bolt D—an important feature, as without said strip the holes in the sash would soon become worn at their edges, so that the bolt would fail to hold up the sash. By having the tube or case A cast with the slot *c*, as shown and described, the bolt may be readily fitted in it, while the collar *h*, which may be secured in the inner end of the tube or case A, serves as a guide for the bolt, and also as a bearing for the spring *g*. This is a very economical mode of construction, much more so than the ordinary way of casting the tube or case in two parts.

I would remark that the upper sash, B', may be provided with a similar fastening, care being taken that the arm E be of such a form as

not to interfere with the raising and lowering of the lower sash, B.

I do not claim, broadly, the use of a spring-bolt for a window-fastener; but,

Having thus described my invention, I claim and desire to secure by Letters Patent, as an improved article of manufacture—

A window-sash stop or fastener composed of a tube, C, slotted in the side, as at *c*, and provided with a spring-bolt, D, a side elbow or arm, E, working through said slot, and a strip, F, all made and operating as herein shown and described.

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Witnesses:

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