

E. J. HALE.
SASH-FASTENER.

No. 182,754.

Patented Oct. 3, 1876.

Fig. 1.

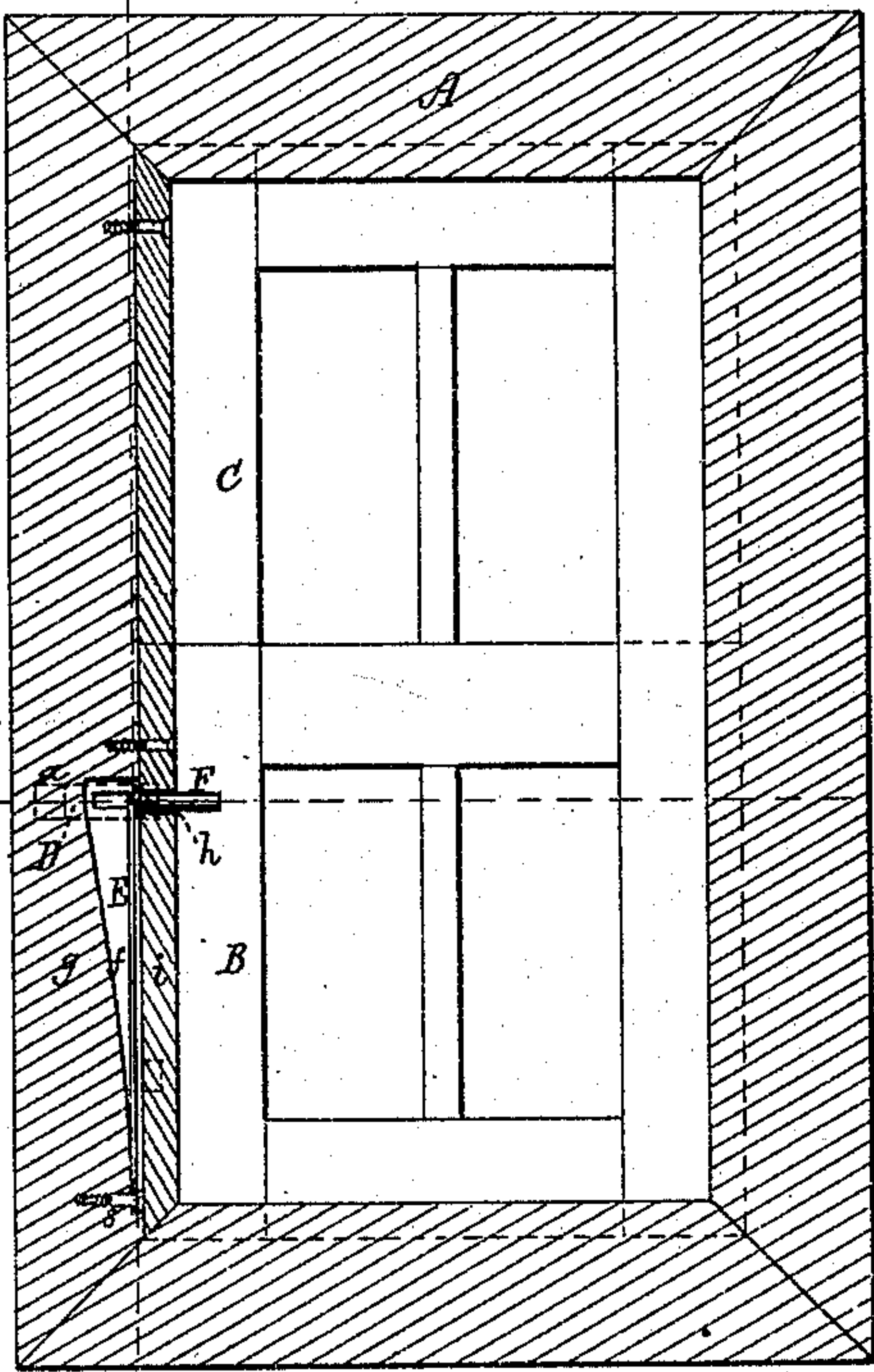


Fig. 2.

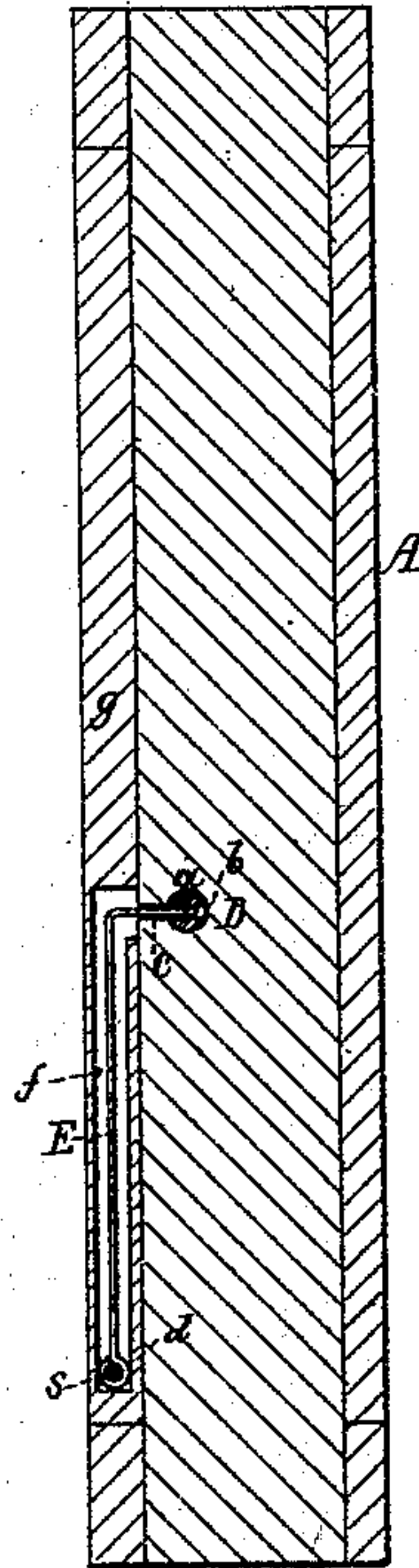


Fig. 3.

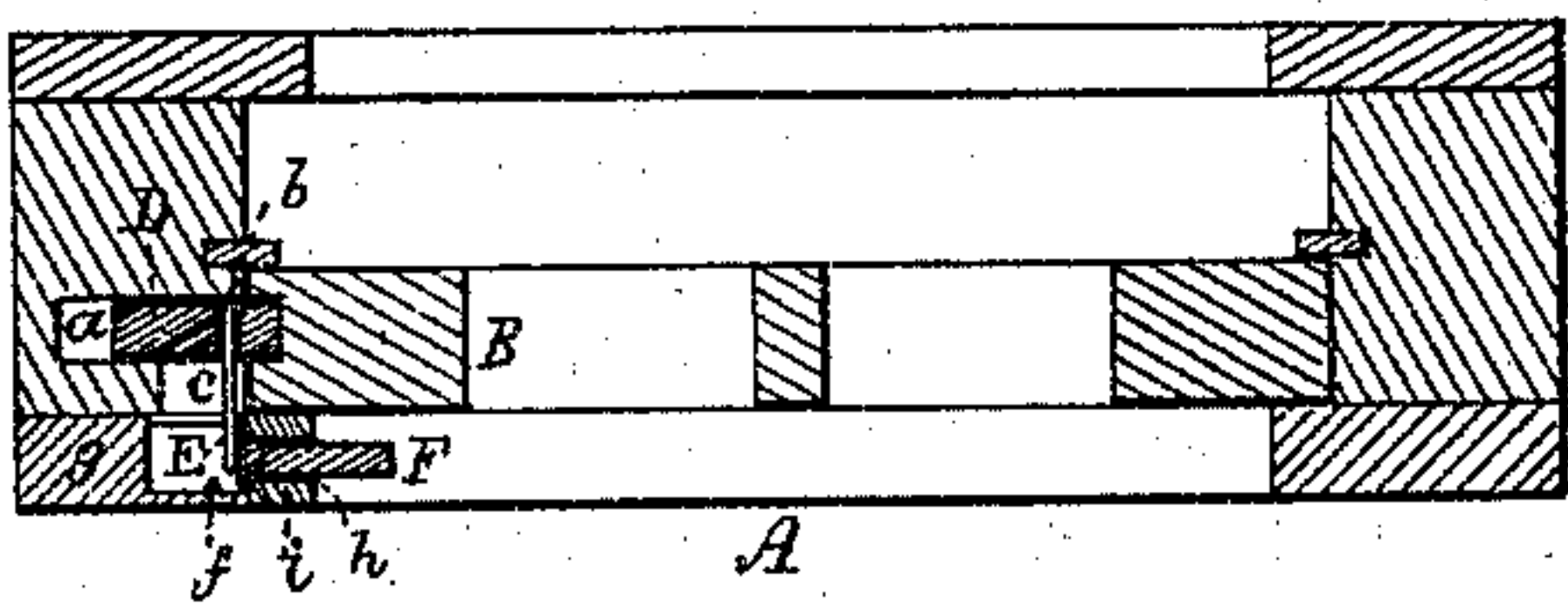


Fig. 4.



Fig. 5.

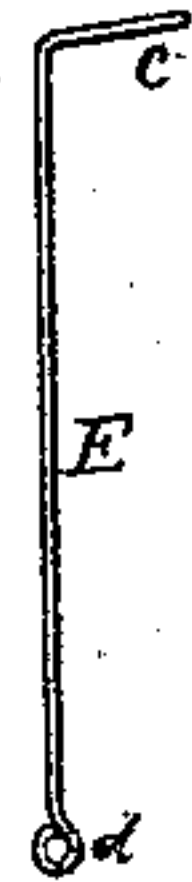


Fig. 6.



Witnesses.

S. M. Piper
L. W. Miller

Elias J. Hale

by his attorney.

R. W. Eddy

UNITED STATES PATENT OFFICE.

ELIAS J. HALE, OF FOXCROFT, MAINE.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. 182,754, dated October 3, 1876; application filed June 28, 1876.

To all whom it may concern:

Be it known that I, ELIAS J. HALE, of Foxcroft, of the county of Piscataquis, of the State of Maine, have invented a new and useful Improvement in Sash-Fasteners; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figures 1 and 2 are vertical sections, and Fig. 3 a horizontal section, of a window-frame provided with my improved sash-fastening. Fig. 4 is a side view of the perforated bolt; Fig. 5, a perspective view of its wire spring; Fig. 6, a side view of the headed slide-pin or bolt-spring actuator.

My present sash-fastening is analogous to one for which I have recently taken out Letters Patent, No. 178,292, dated June 6, 1876.

A distinctive feature of difference between the two fastenings is, that in the present one the device for actuating the bolt-spring is separate or disconnected therefrom; and consists of a headed pin arranged in the bead, and having the head at the inner edge of the bead and against the spring arranged in a chamber in the inside lining of the window-frame, and extended into the bolt disposed in a chamber in the said frame.

When the spring and arm and stud are in one piece of wire, as in my previous or other sash-fastening, the arm, while in use, is liable to become spread open or bent more or less, so as to bind in the frame and impede the operation of the spring and bolt; but with my improvement the spring has the stud only to it, the actuator being a headed pin, as described, separate from the spring.

In the drawings, A denotes the window-frame, and B and C its two sashes. There is inserted in a chamber or hole, *a*, made horizontally in the frame, and at right angles to

the sash, a slide-bolt, D, of wood or other suitable material, it being perforated at or near its middle with a hole, *b*, to receive the stud *c* of the spring E. This spring consists of a piece of wire, bent around at one end, so as to there form an eye, *d*, and also bent near the other end at a right angle, to form the stud *c*, which is to enter the hole *b* of the bolt. The spring is arranged in a chamber, *f*, made within the inside lining *g* of the frame B, and opening at its upper part into the bolt-chamber, the spring being fastened in its own chamber by a screw, *s*, inserted through the eye of such spring. At the upper part of the spring-chamber a round hole, *h*, is bored through the bead *i*, to receive a headed pin, F, which, formed as shown, goes through and projects from the bead, in manner as represented, the head of the pin resting against the spring, and serving therewith to keep the pin in place in the bead.

By pressing a finger against the outer end of the pin, so as to move the pin backward, the bolt will be forced back away from the sash, or a recess therein, so as to admit of the sash being raised or lowered.

Sometimes in the place of a head to the pin I make a hole through the said pin, and pass the stud *c* of the spring through the said hole.

I claim—

The improved sash-fastening, constructed as described, composed of the perforated slide-bolt D, the combined wire spring E, and stud *c*, and the separate headed pin or actuator F, all being for application to the window-frame A, its inside lining *g*, and the bead *i* thereof, substantially as set forth.

ELIAS J. HALE.

Witnesses:

R. H. EDDY,
J. R. SNOW.