

J. E. GILLESPIE & G. COFFIN.
Sash-Fastener.

No. 163,008.

Patented May 11, 1875.

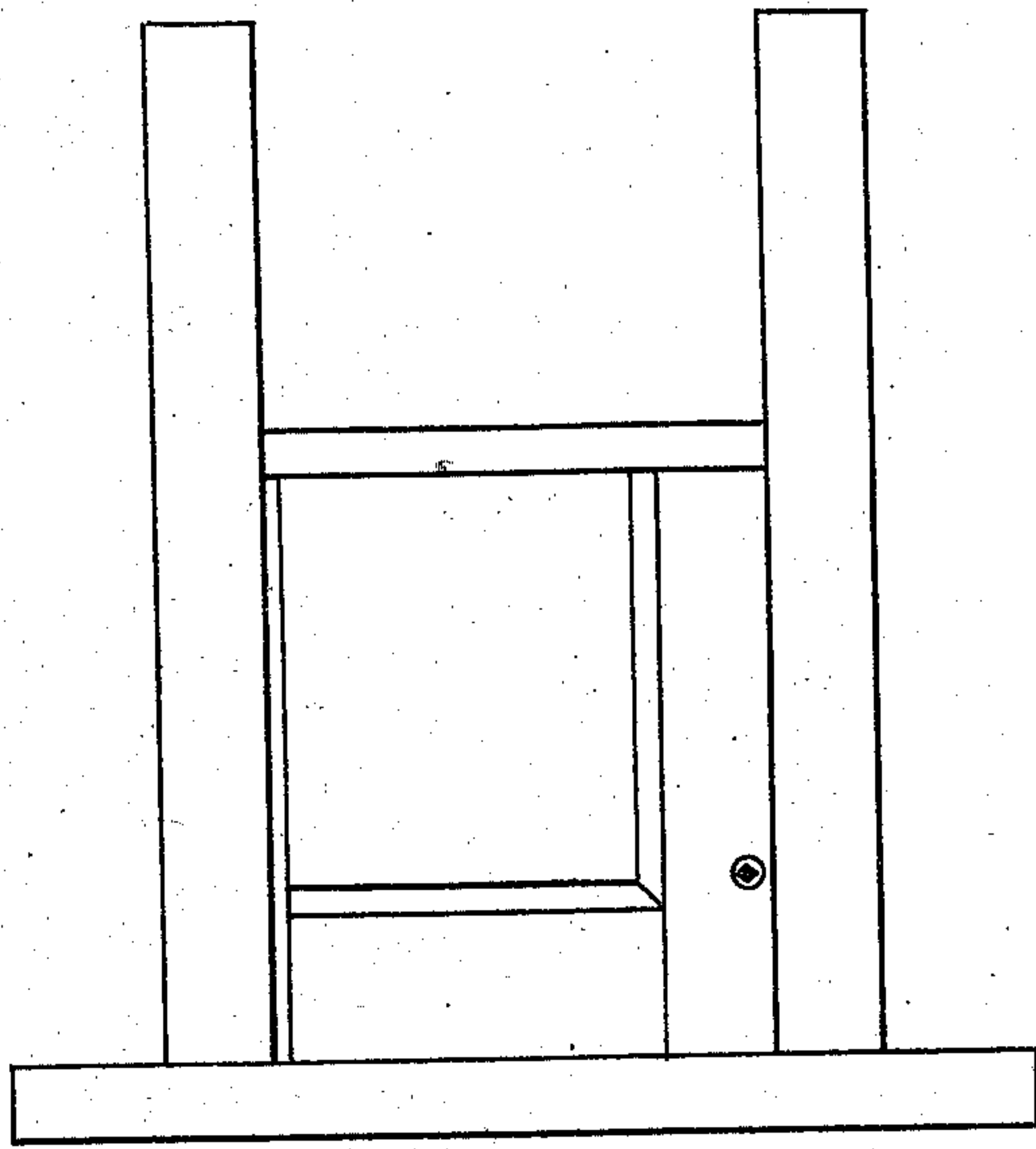


Fig. 1.

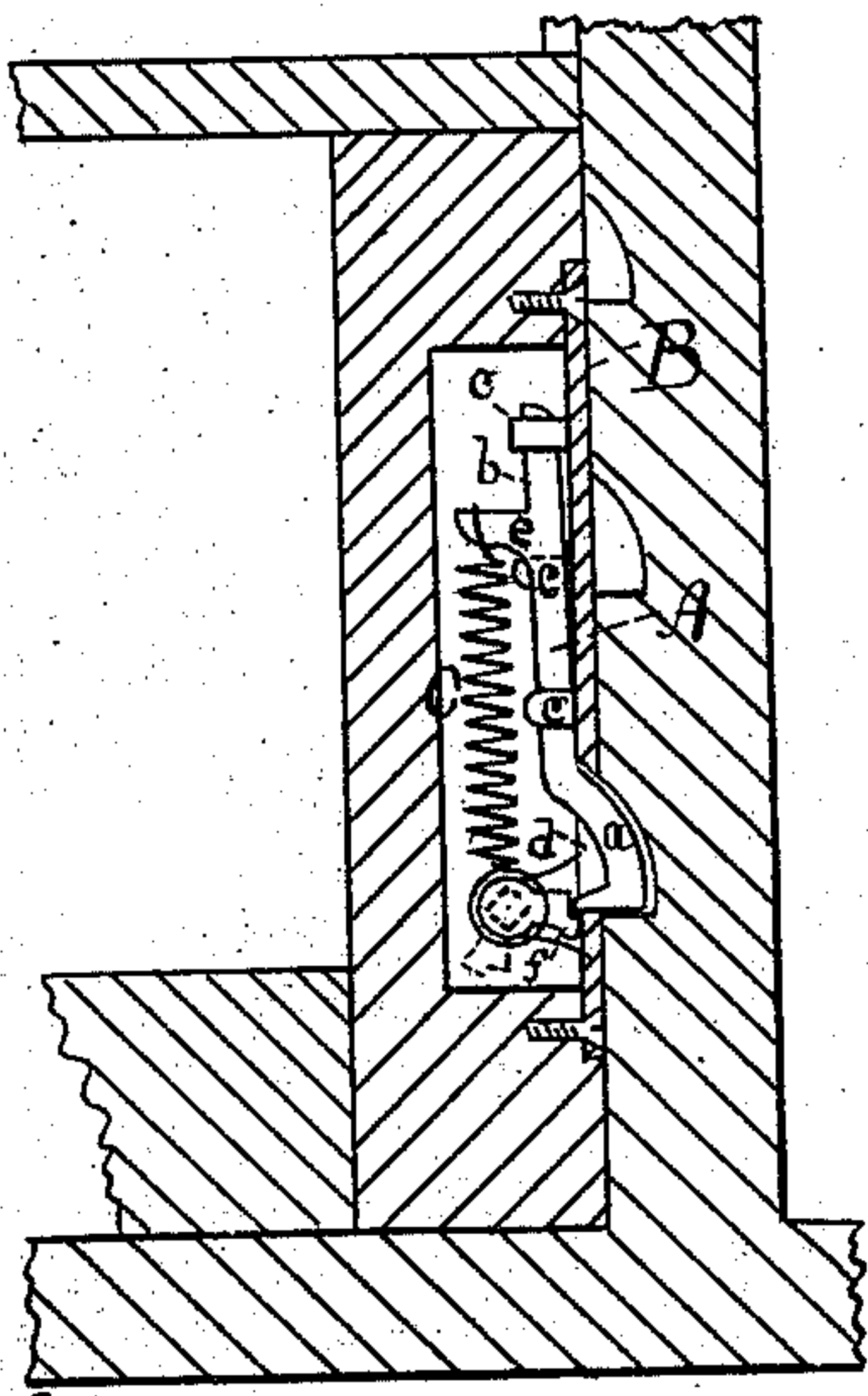


Fig. 2

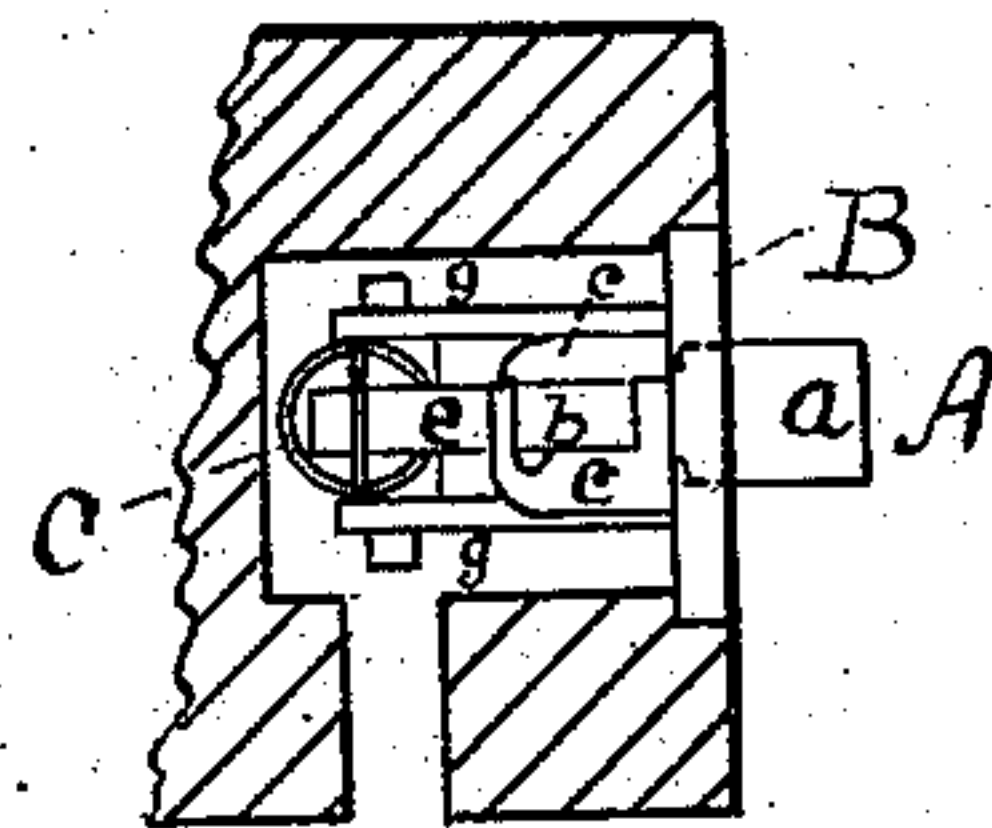


Fig. 3

Witnesses *M. B. Hatch,*
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UNITED STATES PATENT OFFICE.

JAMES E. GILLESPIE AND GALEN COFFIN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **163,008**, dated May 11, 1875; application filed December 23, 1874.

To all whom it may concern:

Be it known that we, JAMES E. GILLESPIE and GALEN COFFIN, of Boston, in the county of Suffolk and State of Massachusetts, have jointly invented certain new and useful Improvements in Sash-Holders; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of our invention consists in the attachment of a catch-bolt to window-sash, car-blinds, &c., which is so constructed as to sustain the sash in any desired position, and is operated by the simple act of raising and lowering, there being also a suitable dog to lock the device.

To more clearly illustrate our invention, we will proceed to describe it with reference to the drawings.

Similar letters of reference in the different views indicate corresponding parts.

Figure 1 represents an elevation; Fig. 2, a vertical section; and Fig. 3, a horizontal section.

A is a catch-bolt, constructed as shown in Fig. 2, having a beveled projecting head, *a*, and stem *b*, and is attached to plate B by means of the stem *b* passing between guide-pins *c c c*, which project out from the inside of plate B, one of which, near the end of the stem *b*, is turned over, partly inclosing it, and holding it in position. The beveled head *a* projects through a hole, *d*, in plate B, and rests in notches or other supports in the window-frame. The stem *b* has also a small projecting pin, *e*, to which is attached one end of a closely-wound spiral spring, C, the other end being attached to any suitable support near the lower end of plate B.

The spring C must be of sufficient strength to somewhat more than sustain the weight of the sash, so that by a slight downward pressure, overcoming the spring C, the plate B acts upon the beveled head *a*, forcing it inward, and releasing its hold on the notches, or other support in the window-frame, and allowing the sash to come down.

As will readily be seen our sash-holder offers no appreciable resistance when raising the sash, which does away with a very serious objection to some recent contrivances for sustaining the sash by a constant spring-pressure, which has to be overcome in addition to the weight of the sash, more than doubling the resistance when raising it.

To securely hold the sash when closed, or when partially raised for ventilation, we have provided our sash-holder with a simple and easily-constructed locking-device, which consists of a small dog, *f*, held between two ears, *g g*, which project from the plate B, and swings on pin *h*, the ends of which are made square for the reception of a small key, which may be inserted through a hole in the sash, by which it is turned over against the lower end of the catch-bolt A, effectually preventing it from being forced inward by any attempt to move the sash in either direction.

The dog *f* may be held in position by the friction of the spring C, to which one end may be attached.

We do not confine ourselves to the above-described mode of construction, as it will be readily seen that the open or push spring can be substituted for the close spring described; or the whole mechanism can be inclosed in a small case, and be secured to the inside of the sash-bar, as is common with sash-holders used in railway-cars.

What we claim as new, and desire to secure by Letters Patent, is—

1. The catch-bolt A, with its beveled projecting head *a*, and its stem *b*, suitably attached to the plate B, in combination with the spring C, substantially as shown and described.

2. The dog *f*, in combination with the catch-bolt A, plate B, and spring C, substantially as and for the purpose shown and described.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JAMES E. GILLESPIE.
GALEN COFFIN.

Witnesses:

M. B. HATCH,
CHS. D. MARCY.