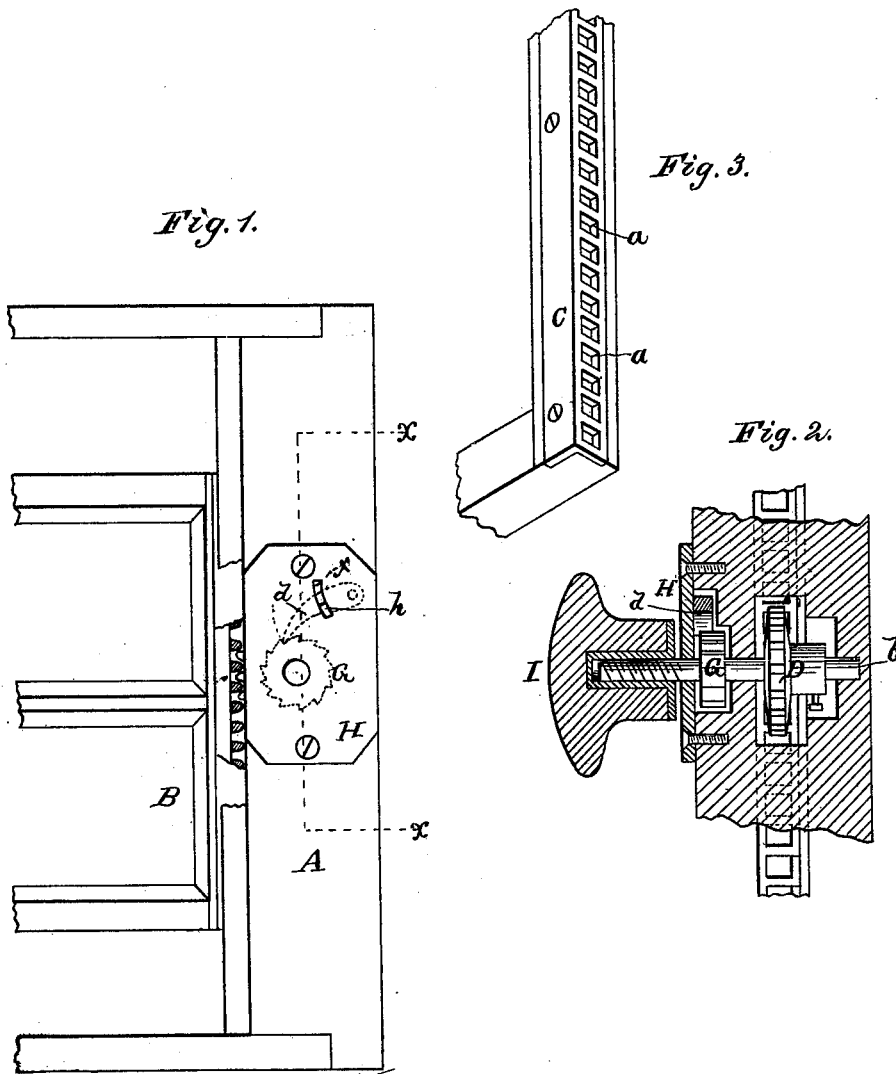


F. L. SHINKLE & D. F. STAMBAUGH.
Sash-Balance.

No. 201,055.

Patented March 5, 1878.



Witnesses
Henry N. Miller
Frank Galt

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UNITED STATES PATENT OFFICE.

FLORIMOND L. SHINKLE AND DAVID F. STAMBAUGH, OF CASEY, ILLINOIS.

IMPROVEMENT IN SASH-BALANCES.

Specification forming part of Letters Patent No. 201,055, dated March 5, 1878; application filed June 26, 1877.

To all whom it may concern:

Be it known that we, FLORIMOND L. SHINKLE and DAVID F. STAMBAUGH, of Casey, in the county of Clark, and in the State of Illinois, have invented certain new and useful Improvements in Sash-Locks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

Our invention is intended as an improvement upon the sash-balance for which Letters Patent No. 188,432 were granted to D. F. Stambaugh and W. A. Smith, March 13, 1877; and it consists in combining a ratchet-wheel on the operating-shaft on said sash-balance with a gravitating-pawl provided with a lug projecting through a slotted metallic plate secured to the window-frame, for the purpose of locking the sash, as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a front view of a window-frame and sash embodying our invention. Fig. 2 is a section through the line *xx* of Fig. 1. Fig. 3 shows one edge of the window-sash.

A represents a window-frame, and B the sash, movable up and down therein. On one side edge of the sash B is secured a metal bar, C, which is formed with a series of slots, *a a*, at equal distances apart the entire length of the bar. This bar is preferably made L-shaped, as shown in Fig. 3, so that part of the bar lies on the face of the sash, and it is fastened by screws through this part; or the bar may be made straight, when it will be fastened with screws through its ends.

Through the frame A is passed a shaft, *b*, upon which is secured a pinion, D, at such a point that its cogs will take into the slots *a* of the bar C, and thus, when the shaft is turned, operate the sash up and down, as required.

On the shaft *b* is further secured a ratchet-wheel, G, into which takes a pawl, *d*, pivoted to a face-plate, H, secured on the window-frame, and through which the end of the shaft *b* projects; and the pawl operates by gravity, falling down on the ratchet-wheel, as shown. The pawl *d* is provided with a lug, *h*, which projects through a slot, *f*, in the plate H, and by means of which the pawl is raised when it is desired to raise the sash.

It will readily be seen that when the pawl is in contact with the ratchet-wheel the sash is locked, and cannot be raised from the outside.

On the end of the shaft *b* is screwed a knob, I, which operates to hold the sash in a raised position at any point desired, in the same manner as described in the patent above referred to.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The plate H, provided with slot *f*, the pawl *d*, pivoted to the under side of the same, and having projecting lug *h*, passing through the slot in the plate, in combination with the ratchet G on the shaft *b*, and the cog-wheel D, rack C, and adjustable knob I, all as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 12th day of June, 1877.

F. L. SHINKLE.
D. F. STAMBAUGH.

Witnesses:

CHAS. M. VAUGHN,
DEWITT C. STURDEVANT.