

D. F. STAMBAUGH & W. A. SMITH.

SASH-BALANCES.

No. 188,432.

Patented March 13, 1877.

Fig. 1.

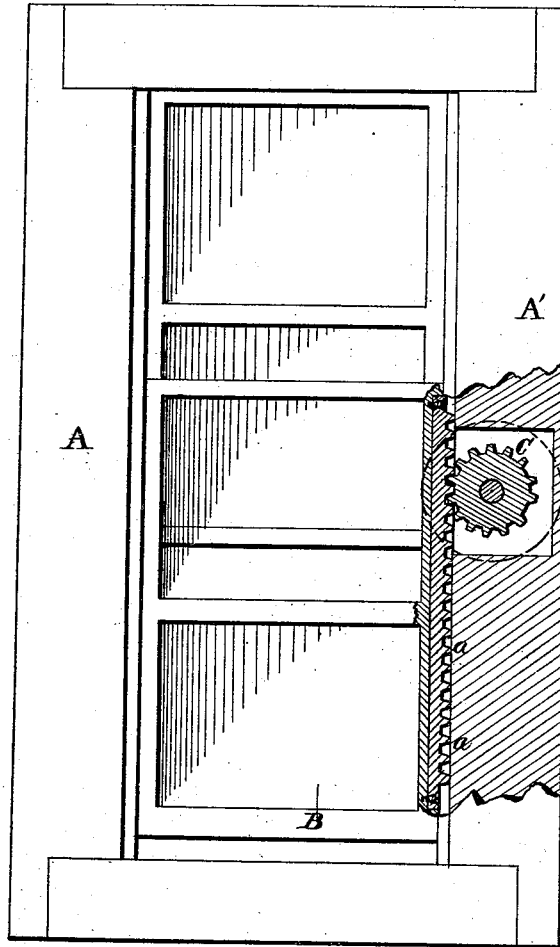
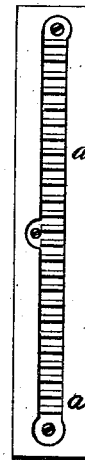
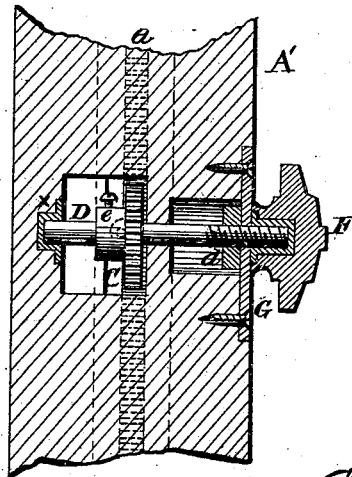


Fig. 2.



WITNESSES
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DAVID F. STAMBAUGH AND WILLIAM A. SMITH, OF CASEY, ILLINOIS.

IMPROVEMENT IN SASH-BALANCES.

Specification forming part of Letters Patent No. 188,432, dated March 13, 1877; application filed February 8, 1877.

To all whom it may concern:

Be it known that we, DAVID F. STAMBAUGH and WILLIAM A. SMITH, of Casey, in the county of Clark and in the State of Illinois, have invented certain new and useful Improvements in Window-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.

The nature of our invention consists in the employment, with a window-frame and sash, of a shaft provided with a collar, a gear-wheel, a nut, and a knob, together with a rack-bar, by means of which combined devices the sash can be held at any desired point and securely locked by turning the knob, as will be hereinafter more fully set forth and definitely claimed.

In order to enable others skilled in the art to make and use our invention, we will now proceed to describe its construction and operation.

In the annexed drawings, making part of this specification, Figure 1 represents a side elevation, with a portion of one side of the frame cut away, and Fig. 2 a section of the working parts.

In the figures, A represents an ordinary window-frame, in one portion of which, A', are placed the working devices for raising and lowering the sash.

B represents the sash, which is provided upon one edge with a rack-bar, *a*, which is embedded within the edge until flush with it. D represents a shaft, which passes into the frame from its front, and which has a bearing

for its inner end, as seen at *x*. Upon this shaft is a gear-wheel, C, having a collar, *e*, which is provided with a set-screw for holding the wheel at any desired point upon the shaft. The outer end of the shaft D passes through a nut, *d*, a metallic plate, G, on the outside of the frame, and then into a nut in the knob F, said shaft being provided upon a portion of its outer end with a suitable screw-thread to fit the thread of the nuts. The gear-wheel C meshes into the teeth of the rack-bar *a*, and when the sash is raised as high as is desirable the knob F is turned to the right until the plate G is tightly clamped between its inner end and the nut *d*. This holds the shaft D and prevents the wheel C from turning, and of course holds the window-sash in desired position. This device acts as a lock to the sash when it is down, and prevents it from being raised from the outside.

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

The shaft, D, provided with a gear-wheel, C, and collar *e*, in combination with the nut *d*, the knob F, and the rack-bar *a*, the knob serving to make the parts rigid, for holding the sash at any desired point, substantially as set forth.

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

DAVID F. STAMBAUGH.
WILLIAM A. SMITH.

Witnesses:

FRANK GALT,
M. E. ADAMS.