

W. K. AZBILL.  
Sash-Balance.

No. 202,324.

Patented April 16, 1878.

Fig. 1.

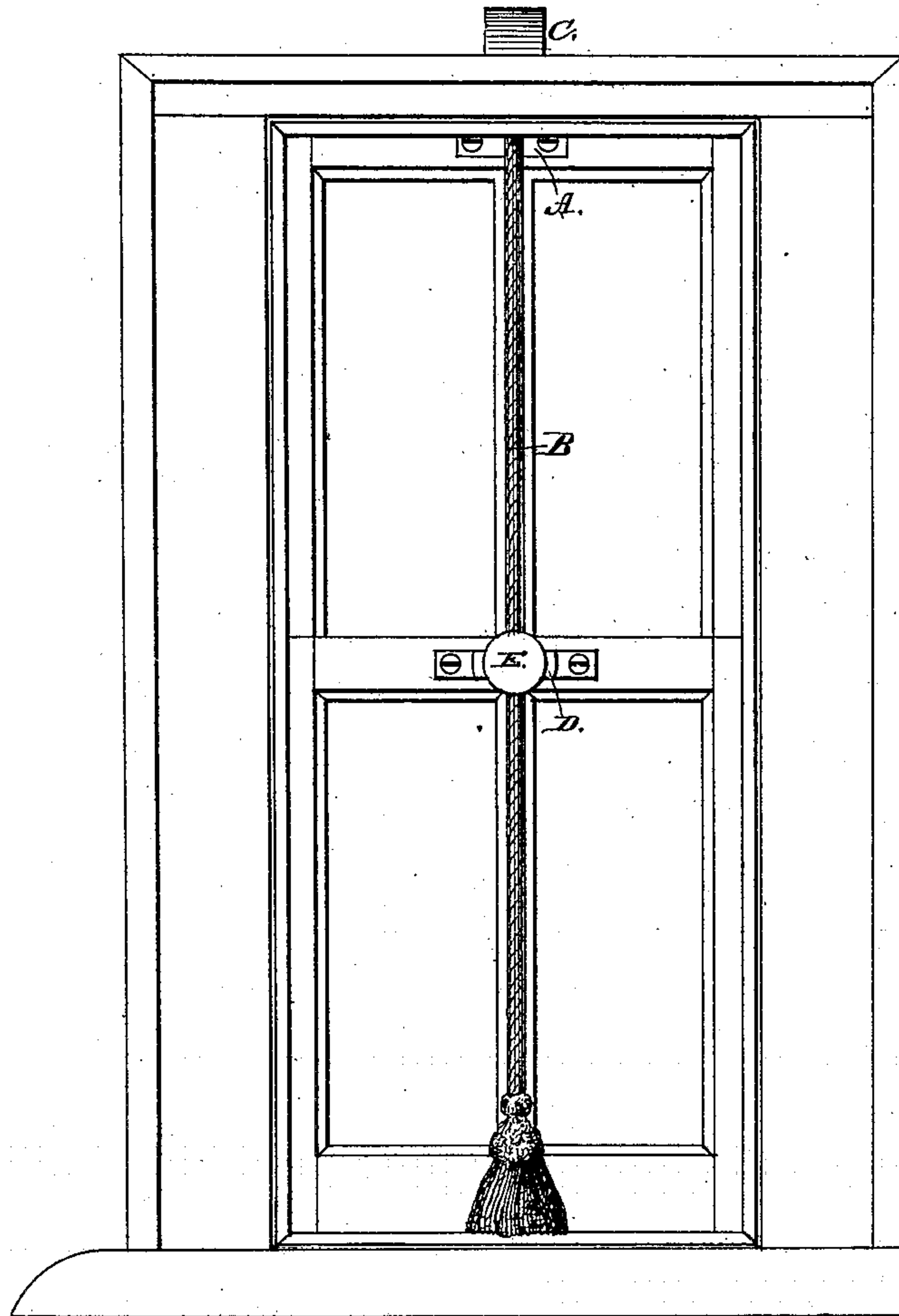


Fig. 2.

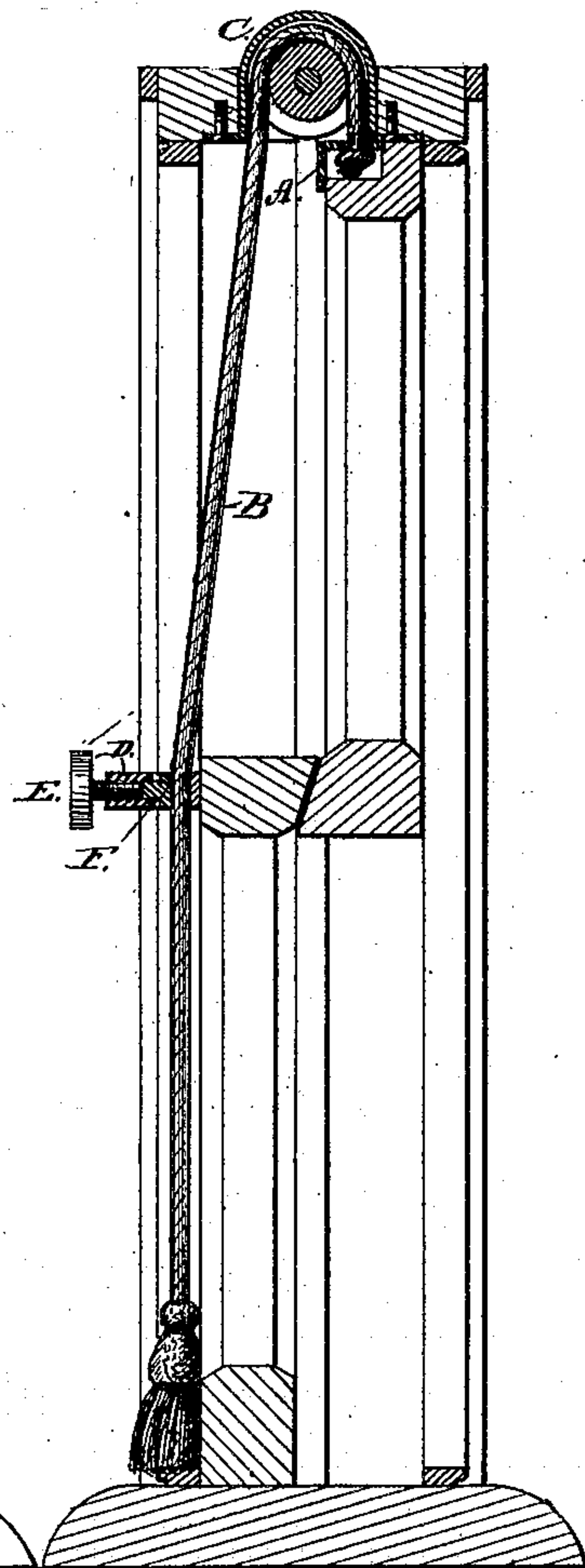
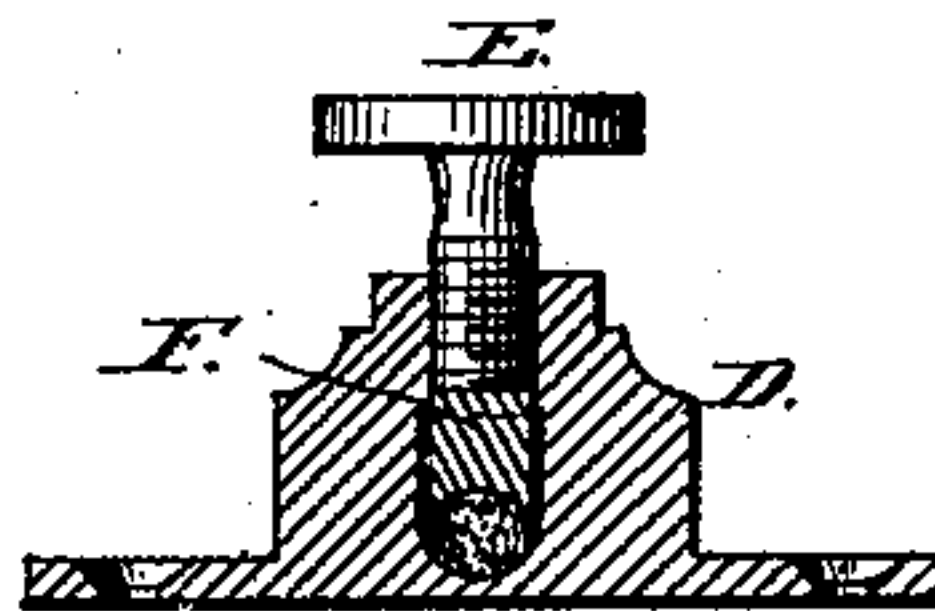


Fig. 3.



Attest:

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# UNITED STATES PATENT OFFICE.

WILSON K. AZBILL, OF COLUMBIA, KENTUCKY.

## IMPROVEMENT IN SASH-BALANCES.

Specification forming part of Letters Patent No. 202,324, dated April 16, 1878; application filed January 21, 1878.

*To all whom it may concern:*

Be it known that I, WILSON K. AZBILL, of Columbia, in the county of Adair and State of Kentucky, have invented a new and useful Improvement in Hanging Window-Sash, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation, showing my improved sash-balance; Fig. 2, a vertical section thereof, and Fig. 3 a face view of the cord-clamp or compressor.

The object of my invention is an improvement in the clamp or cord-holder for attaching a cord to the lower sash of a window whose sash are balanced against each other by the combination of a cord, clamp, and pulley.

The combination, which, I am aware, is not broadly new, consists mainly of a plate, A, for attaching the cord B to the upper section of the sash, a pulley, C, to facilitate the movement of the cord, and a peculiar cord-holder, D, for attaching the cord to the lower section of the sash in such manner as to enable the operator to slide the cord or fix it at any given point thereon, as hereinafter described and claimed.

The plate D has a vertical hole, through which the cord B passes down from the pulley C in a right line, without passing through, or

partly through, or in any way weakening the sash-rail to which it is attached. A detached follower, F, acts on the cord in the said hole as a cord-compressor, having the side next to the cord hollowed or tube-shaped to fit the cord, and the other side opposite rectangular shaped to fit the hole, and this follower has on the last-named side a projection or protuberance extending into the plate D, to prevent it from falling out; and there is, likewise, an adjusting or set screw, E, embedded in the said plate opposite to the protuberance, and acting against the same to compress the cord.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a sash-balance, the clamp or cord holder D formed from a perforated plate attached to the surface of the meeting-rail, and having the set-screw E acting upon the detached follower F as a cord-compressor, in combination with the plate A, cord B, and pulley C, all constructed, arranged, and operating substantially as described and shown, for the purposes set forth.

WILSON K. AZBILL.

Witnesses:

JAMES T. PAGE,  
CHARLES U. SALLEE.