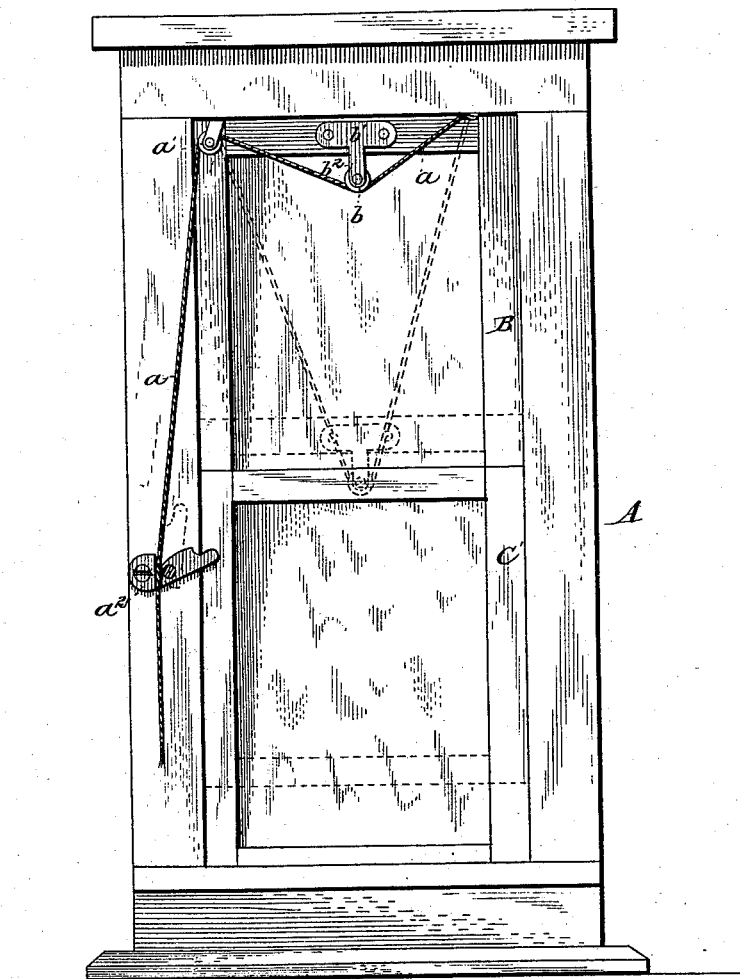


(No Model.)

W. WIMER.
SASH BALANCE.

No. 261,797.

Patented July 25, 1882.



Witnesses:
A. M. Long
W. J. Cagrod

Inventor.
William Wimer
per Hon. A. C. Brown
Atty

UNITED STATES PATENT OFFICE.

WILLIAM WIMER, OF UNION CITY, INDIANA.

SASH-BALANCE.

SPECIFICATION forming part of Letters Patent No. 261,797, dated July 25, 1882.

Application filed April 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WIMER, a citizen of the United States, residing at Union City, in the county of Randolph and State of Indiana, have invented certain new and useful Improvements in Sash-Balances, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in sash-balances; and it consists in the construction and arrangement of its several parts, as will be hereinafter fully set forth, and pointed out in the claim.

The accompanying drawing fully illustrates my invention.

The figure is a front elevation.

A represents a window-frame of ordinary construction, in which slides the upper sash, B, and lower sash, C, as shown. To one corner of the upper sill of the window-frame A is attached the end of the cord *a*, as shown. Secured centrally to the upper portion of the sash B is a T-shaped hanger, *b'*, the arm *b*² of which projects downwardly, and has journaled in its lower end the pulley *b*, as shown. The cord *a* is carried around this pulley, and thence back to the opposite corner of the upper sill of the frame from that to which its end is attached, and is carried over a pulley, *a'*, as shown. From this pulley the cord is carried downwardly along the frame, and passes through a clamping device, *a*², adapted to secure the cord, and thus hold the sash B in any

desired position. When it is desired to lower the sash B the cord *a* is loosened from the clamping device *a*², and the sash descends by virtue of its own weight. To raise the sash the cord *a* is drawn upon until the sash has reached the desired elevation, when the cord is secured in the clamping device.

The advantage secured by this arrangement of the sash-balance is that additional leverage is secured upon the sash, and that by the use of the hanger *b'*, having the depending arm *b*², the power being applied so that the sash is pushed rather than pulled up, by which an additional effect is produced with the same expenditure of a pulling-power.

What I claim is—

The combination, with the window-frame A, having a cord, *a*, attached in one corner of the upper sill, adapted to pass over the pulley *a'* on the opposite corner of said sill, of the sash B, provided with a T-shaped hanger, *b'*, secured centrally to its upper portion, and having a pulley, *b*, journaled in the lower end of its depending arm *b*², the said cord *a* being held by the clamping device *a*² after passing around the pulleys *b* and *a'*, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM WIMER.

Witnesses:

L. D. LAMBERT,
JOHN E. V. WILLIAMS.