

(No Model.)

N. J. SKAGGS.

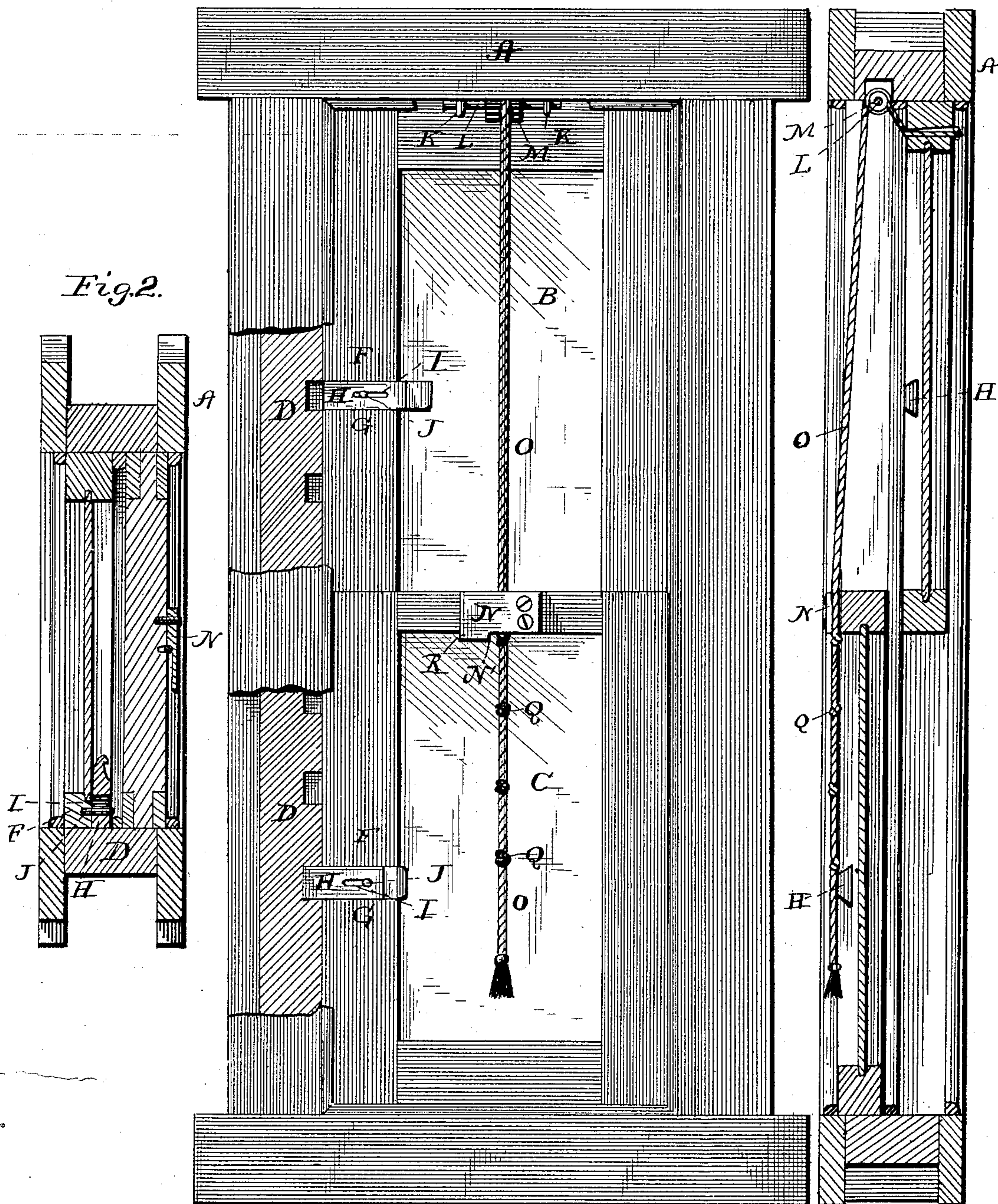
SASH BALANCE.

No. 328,347.

Patented Oct. 13, 1885.

Fig. 1.

Fig. 3.



WITNESSES

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INVENTOR

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# UNITED STATES PATENT OFFICE.

NEWTON J. SKAGGS, OF MONTGOMERY, ALABAMA.

## SASH-BALANCE.

SPECIFICATION forming part of Letters Patent No. 328,347, dated October 13, 1885.

Application filed July 11, 1885. Serial No. 171,345. (No model.)

*To all whom it may concern:*

Be it known that I, NEWTON J. SKAGGS, a citizen of the United States, residing at Montgomery, in the county of Montgomery and State of Alabama, have invented certain new and useful Improvements in Sash-Balances; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to

10 which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

15 Figure 1 of the drawings is a representation of front elevation with parts broken away. Fig. 2 is a horizontal section. Fig. 3 is a vertical section.

This invention relates to sash-balances and sash-locks; and it consists in the construction and novel combination of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

Referring by letter to the accompanying drawings, A designates the window-frame, which is constructed in the ordinary manner, with side and top strips, which form the guides in which the upper and lower sashes work when operated.

30 B and C designate the upper and lower sashes, which work in the guides when the sashes are moved.

The window-frame is provided in one of its sides with a set of mortises or notches, D, located at suitable or desired intervals to fix the height to which the sash is to be adjusted. On the inner faces of the sash-stiles F grooves G are made, in which the sash-bolts H work. These sash-bolts H are provided with horizontal slots I, through which pins or studs J extend, said pins or studs being seated in the side sash-stiles near the side of the window-frame, which is provided with the bolt-seats.

At the top of the window-framing, on the under face of the top cross-piece, are provided bearing-lugs K for a shaft, L, on which a grooved pulley, M, works.

The upper sash-rail of the lower sash is provided on its inner face with a catch-plate or

50 keeper, N.

To the top rail of the upper sash a cord, O, is secured, and this cord runs over the pulley M and down below the top rail of the lower sash, and is knotted at proper places, the knots Q being designed to engage the keeper-plate N, to hold the sashes balanced at the desired points to which they may be adjusted either to close them or to afford ventilation.

The keeper-plate N has a shoulder, N', which rests against the face of the top rail of the lower sash, being secured in place by screws, and is provided with a downwardly projecting lip, R, against which the desired knot in the cord O rests or impinges to hold the sashes in the positions to which they may have been adjusted. The top rail of the lower sash is provided with a vertical groove for the cord.

I am aware that it is not new to provide the upper sash of a window with a pulley, a rope passing over said pulley and secured at one end to the top rail of the upper sash, the opposite end of the cord being in loop form, so as to engage knobs on the lower sash, and thereby hold the respective sashes in desired positions. I am also aware that it is not new to recess the casing at intervals and provide the sashes with bolts to engage the said recesses, and therefore do not claim such devices broadly; but,

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

The combination, with the casing having the upper horizontal pulley, M, and the upper and lower sashes, of the cord O, having a plurality of knots and secured at its upper end to the upper sash, the plate N, having the shoulder N', secured to the top rail of the lower sash and arranged to receive the said cord all arranged for joint operation, substantially as shown and described.

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

NEWTON J. SKAGGS.

Witnesses:

M. A. WESTCOTT,  
W. W. BURCH.