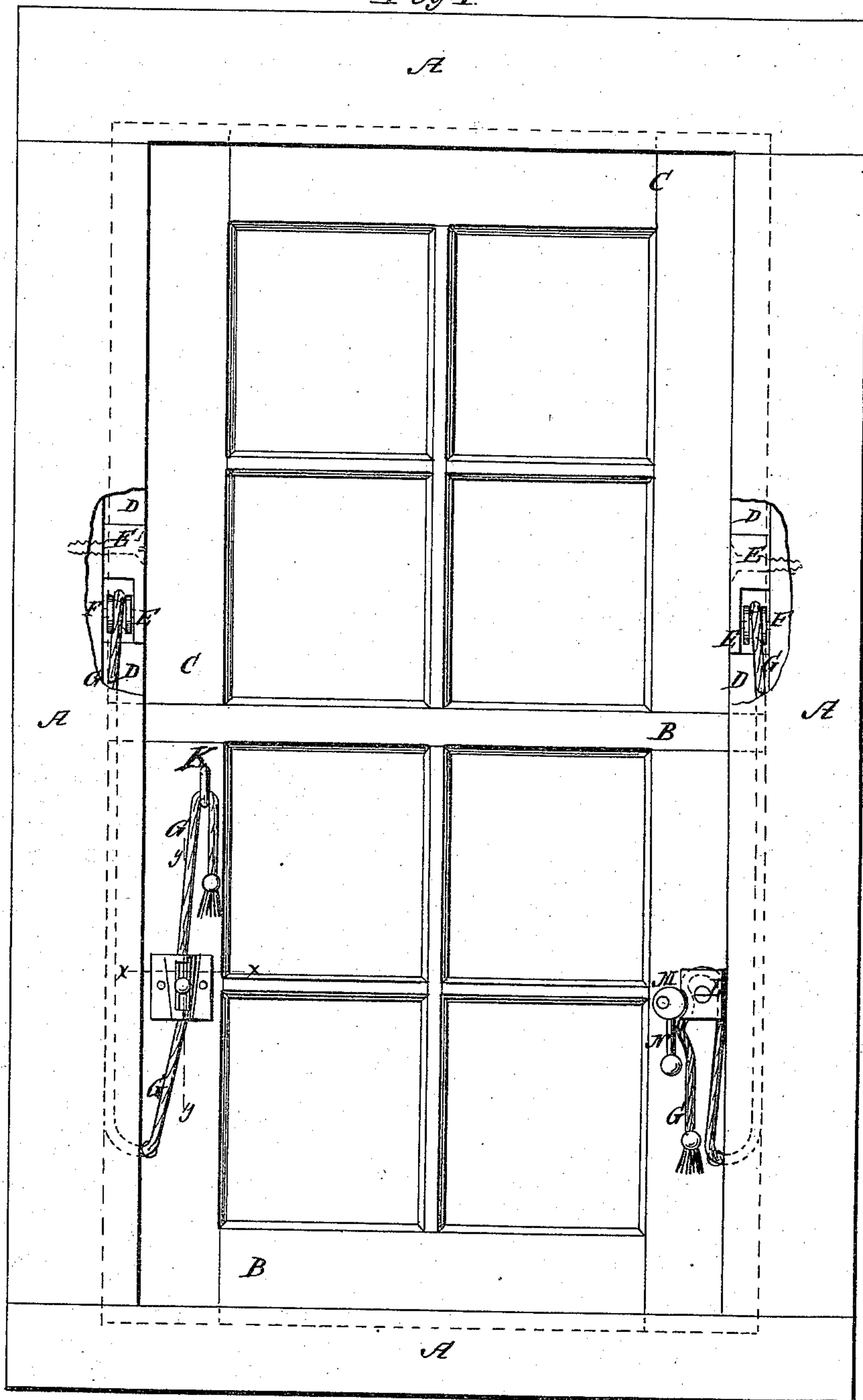


N. J. SKAGGS.
Sash-Balances.

No. 156,952.

Patented Nov. 17, 1874.

Fig. 1.



WITNESSES:

E. Wolff
A. J. Terry

Fig. 2.

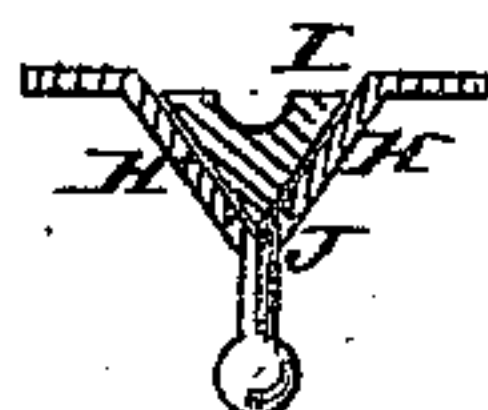
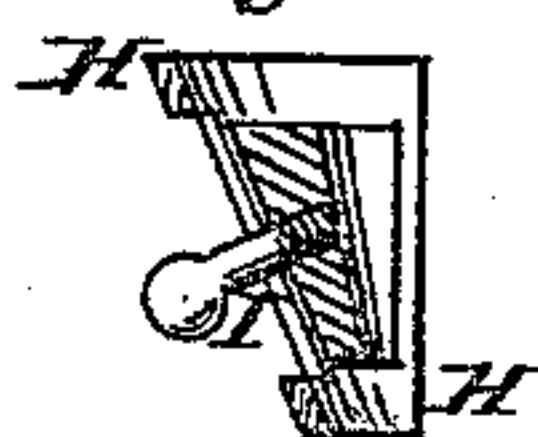


Fig. 3.



INVENTOR:

Newton J. Skaggs

BY

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

NEWTON J. SKAGGS, OF TALLADEGA, ALABAMA.

IMPROVEMENT IN SASH-BALANCES.

Specification forming part of Letters Patent No. **156,952**, dated November 17, 1874; application filed August 29, 1874.

To all whom it may concern:

Be it known that I, NEWTON J. SKAGGS, of Talladega, in the county of Talladega and State of Alabama, have invented a new and useful Improvement in Window-Sash Balance, of which the following is a specification:

Figure 1 is a front view of a window to which my improved balance has been applied, parts being broken away to show the construction. Fig. 2 is a cross-section of a cord-fastener, taken through the line *x x*, Fig. 1. Fig. 3 is a longitudinal section of the same taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved device for fastening or clamping the cord of a sash-balance.

The invention consists in the combination of a plate, having an angular tapering recess formed in its inner side, and a tapering angular block provided with a longitudinal groove in its inner side, and a knob or handle with the cord, as hereinafter fully described.

A represents a window casing or frame. B represents the lower sash, and C the upper sash, of a window. D represents the parting beads that separate the sashes as they move up and down. A portion of the parting beads D is cut away a little above the lower edge of the upper sash C when raised, and in the opening thus formed is secured a block, E, of the same breadth and depth as the beads D. The inner part of the lower end of the blocks E is cut away or rabbeted, and is provided with a pivot, upon which works a pulley, F, the diameter of which is the same as the breadth of the block E and bead D, so that the said pulleys will not interfere with the sashes as they are raised and lowered. The outer front corners of the side bars of the upper sash C, and the outer rear corners of the side bars of the lower sash B, are rabbeted to receive the cords G, which pass over the pulleys F, and the rear ends of which are secured to the lower parts of the side bars of the upper sash C. The forward

ends of the cords G pass through holes in the lower parts of the side bars of the lower sash B, pass up along the forward side of said side bars, and through fasteners or clamps H I J attached to said side bars. The plate H is made with an angular wedge-shaped or tapering cavity upon its lower or inner side, and is secured by screws or nails to the side bars of the sash B. I is an angular tapering block, which fits into the cavity of the plate H, and is grooved longitudinally upon its inner side for the passage of the cord G.

By this construction the cord G will be pressed and clamped against the side bar of the sash B by the downward movement of the block I into the cavity of the plate H. The block I is raised to release the cord G by means of the knob or handle J, the stem of which passes in through a vertical slot in the angle of the plate H, and is screwed into or otherwise secured to the block I.

The upper ends of the cords G may be passed through the eyes of eye-screws K attached to the upper parts of the side bars of the sash B to keep them in convenient position to be operated, and to prevent them from hanging down so low as to be in the way.

If desired, the cords G may be passed around a grooved block, L, secured to the side bars of the sash B, and secured in place, when adjusted, by an eccentric, M, pivoted to the said side bars, and operated by a knob or handle, N, attached to or formed upon it.

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

The combination of the plate H, having an angular tapering recess formed in its inner side, and the tapering angular block I, provided with a longitudinal groove in its inner side, and a knob or handle, J, with the cord G and pulley-block and pulley E F, substantially as herein shown and described.

NEWTON J. SKAGGS.

Witnesses:

WM. W. MULLENNAL,
W. G. VENABLE.