A. C. JENKINS.

Sash-Balances.

No. 153,570. Patented July 28, 1874.

Fig. 1

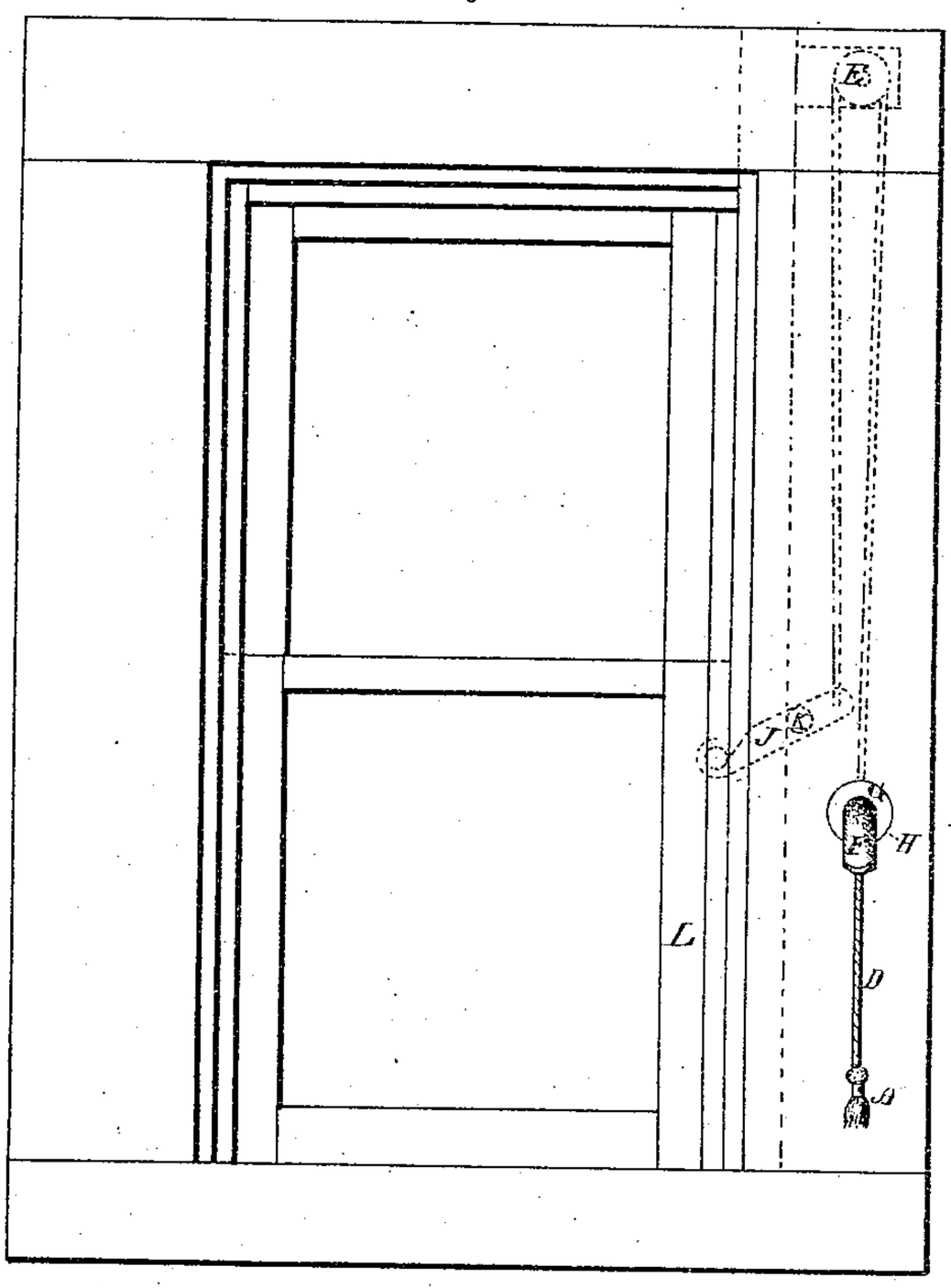
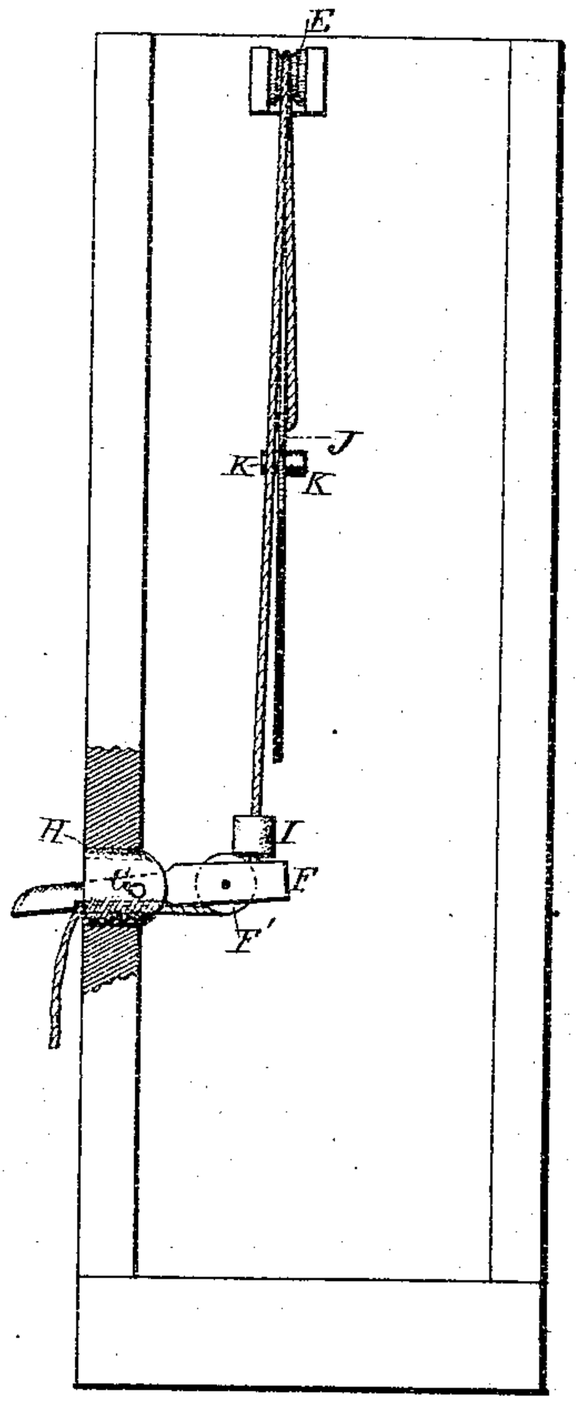


Fig. 2.



WITNESSES.
J. Wm. Garner.
Edwd. F. Kaiser.

INVENTOR.
A. C. Jenkins
per
O. Drake, Atty

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

AMBROSE C. JENKINS, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN SASH-BALANCES.

Specification forming part of Letters Patent No. **153,570**, dated July 28, 1874; application filed May 6, 1874.

CASE B.

To all whom it may concern:

Be it known that I, AMBROSE C. JENKINS, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Device for Raising Sashes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention relates to a new and improved method and means for raising and lowering the sashes of windows; and consists in the employment of a lever provided on one end with a hook, by which it is readily attached to a sash through a slot in the jamb, and at the opposite end with rollers, which, running on the back side of the jamb inside of the frame, on each side of the slot, allow the sash to be raised or lowered with an apparatus attached to only one side of the sash. Attached to this end of the lever is a cord, which passes over a pulley in the upper part of the frame, down to the lower part of the same, around a pulley placed in the inner end of a clamping device, hereinafter described, thence under said clamping-lever, through an opening, into the room, and is provided at this end with an ornamental cord or tassel, as will be more fully hereinafter explained.

Figure 1 is a front elevation, showing the lever attached to the sash and the rollers and pulleys operating inside the frame of the window. Fig. 2 is an end elevation, showing the clamping-lever with the pulley and the arrangement of parts by which the cord is held or clamped at any desired point.

D is a cord or chain, of any desired material, provided at one end with an ornamental knob or tassel, A, and attached at the other end to a lever, J, which lever is attached to one of the sashes L. A weight, I, may, if desired, be attached to this cord to counterbalance the weight of the sash. H is an opening in the window-frame, leading from the room to the inside of the frame, into which opening I place a clamping-lever, F, in any known and desired manner. This clamping-lever F is provided with a pulley, F′, situated and journaled in its inner end, over which the cord D passes. E is another pulley, situated in the upper part of the frame. G is the fulcrum of the lever F. J represents a lever having a hooked end, by which it is attached, in any preferred manner, to the sash, the cord D being attached to the opposite end of the same. Journaled in this lever J are rollers K, which, operating on the inside of the jamb on both sides of the slot through which the lever J operates, give a steady and efficient means for raising and lowering the sashes.

It will be noticed that the axle of the rollers K forms the fulcrum of the lever J, and the weight of the sash L, acting on the lever, will cause it to turn on this fulcrum until, by this force, the sash is drawn closely to the jamb on the side to which the described operating devices are attached. This peculiar construction and arrangement of parts effectually prevent the sash from jamming or twisting in the frame, which results from any other known device where the operating means for sashes are attached to only one side of the same.

When it is desired to raise the sash it is only necessary to pull on the cord D by the knob or tassel which is inside of the room until the sash has reached the desired position. Releasing the cord, the tension thereon is removed, and, the weight of the sash acting in the contrary direction, the inner end of the clamp F is raised, which, working as a lever on a fulcrum at G, depresses the opposite end until the cord D is clamped between it and the inside of the opening H, retaining the sash in the desired position.

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

1. The hooked lever J, provided with rollers K, arranged relatively to cord D and sash L, as specified.

2. The cord D, in combination with clamping-lever F, hooked lever J, pulleys E F′, rollers K, and sash L, as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of April, 1874.

AMBROSE C. JENKINS.

Witnesses:

A. DEVINE,

OLIVER DRAKE.