

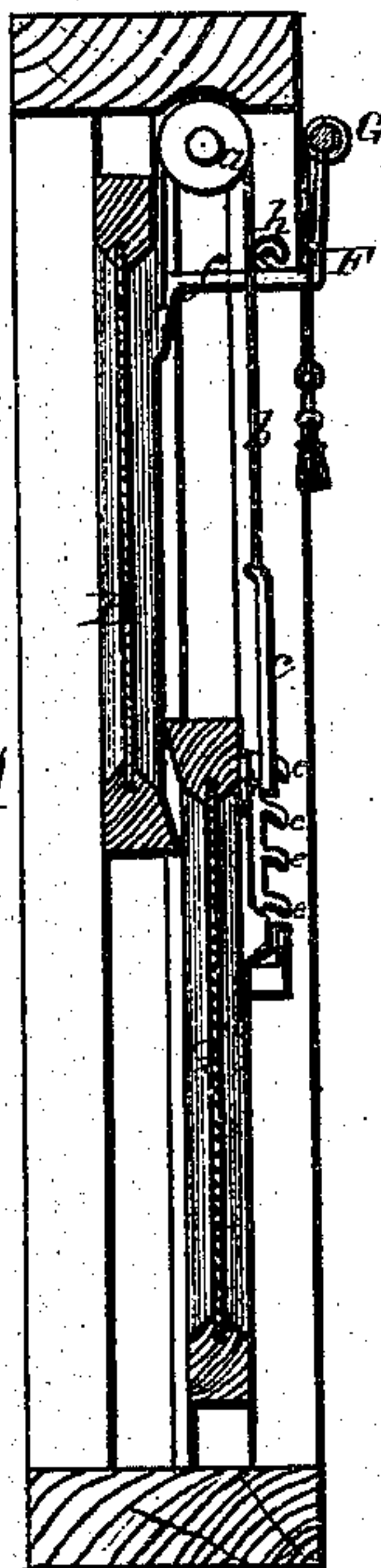
*Van Patten & Kelsey,*

*Sash Balance.*

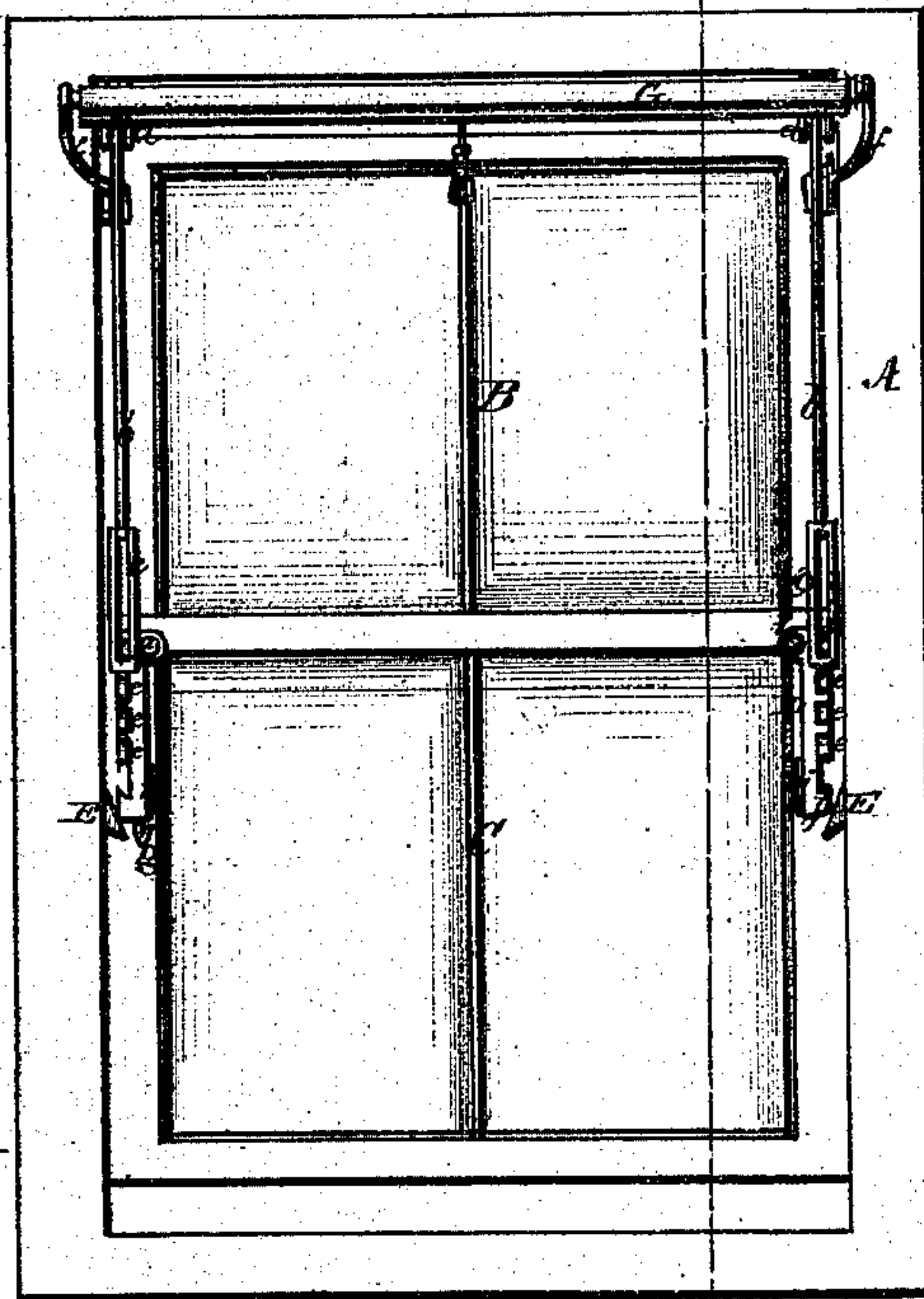
*No. 100,694.*

*Patented Mar. 8. 1870.*

*Fig. 1.*



*Fig. 2.*



*Witnesses,*

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# United States Patent Office.

A. VAN PATTEN AND J. F. KELSEY, OF WEYAUWEGA, WISCONSIN.

Letters Patent No. 100,694, dated March 8, 1870.

## IMPROVEMENT IN SASH-HOLDERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, A. VAN PATTEN and J. F. KELSEY, of Weyauwega, in the county of Waupacca, and State of Wisconsin, have invented certain new and useful Improvements in Sash-Operators and Fasteners; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use our invention, we will proceed to describe it.

Our invention relates to window-sash; and

It consists in attaching to the lower sash automatic catches, connected to the metallic ribbons in such manner that when the sashes are closed the catches operate and fasten them.

In the drawings—

Figure 1 is a vertical section through a pair of sashes with our improvements applied, and

Figure 2 is a front view of the same.

A is the window-frame, having secured to each side, near the top and directly above the sash, a pulley, *a*.

B is the upper and C the lower sash.

D D are elbow-levers, secured one at each of the upper corners of the lower sash, turning on pivots *i i*, as shown.

On the outer edges of these levers D D we form hooks or shoulders *j j*, and on their fronts series of hooks *e e*, and we also provide them with thumb-pieces *f*, and one or both of them with a hook, *g*, at the lower end.

*b b* are two thin flexible metallic ribbons or chains, secured to the upper corners of the top sash B and passed over the pulleys *a a* and down, and provided on their lower ends with loops *c c*, which loops may be hooked onto the hooks *e e* on the respective levers D. When the loops *c* are thus hooked onto the levers D, the ribbons *b b* cause the sash to balance one another, and as one is lowered the other is raised an equal distance.

E E are wedge-shaped blocks secured to the sides

of the window-frame, and under which the shoulders *j j* of levers D D engage when the lower sash is closed down, the lower ends of these levers being drawn against the frame A by the bands *b b*, which are connected outside of pivots *i i*.

*f f* are brackets or arms attached to the upper sash, and projecting out beyond the window-frame, and on which we mount the curtain-roller G, which is thus carried up and down with the sash, allowing a free passage of air through the window when it is lowered.

When it is desired to partially lower the upper sash without raising the lower, the loops *c c* may be unhooked from the levers D D and one of them hooked onto hook *h*, made on one of the brackets *f* for that purpose. Or, while the loops are disconnected, the lever D having hook G may be reversed, and the corresponding loop hooked thereto, this opening the window only about half the distance of the previous arrangement, and being a convenient manner of adjusting the sash at night, for although the window is opened at the top sufficiently for good ventilation it cannot be opened from without far enough to admit of entrance of persons, because of the sash being held by the remaining lever D.

When the lower sash only is to be opened and supported, the loops are hooked onto the lowermost of the series of hooks *e*, these hooks serving also as a means of compensating for any lengthening or stretching of the ribbons *b*, which would prevent the windows from closing tightly.

In this manner I produce a cheap, strong, and efficient device which may be applied to any window, and that is automatic in its operation of locking the sash.

Having thus described our invention,

What we claim, is—

The combination of the hooking-levers D, straps *b*, and sash B C, with the pulleys *a*, all constructed and arranged to operate substantially as described.

A. VAN PATTEN.

J. F. KELSEY.

Witnesses:

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