

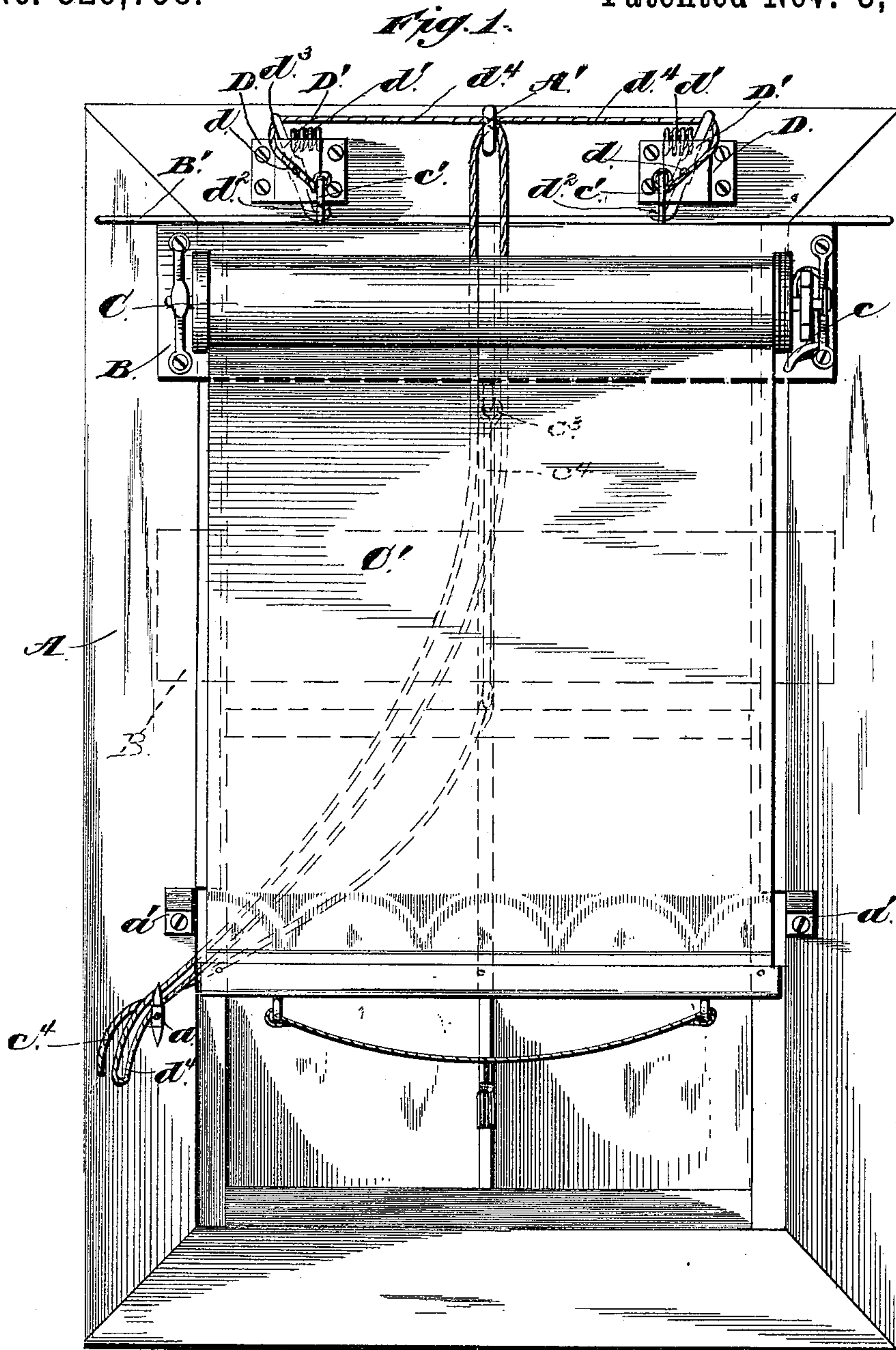
(No Model.)

2 Sheets—Sheet 1.

J. H. & W. T. MITCHELL.  
ADJUSTABLE SHADE FOR WINDOWS.

No. 329,758.

Patented Nov. 3, 1885.



*Witnesses:*

*Charles S. Hyer.*

*Wm J. Panner,*

*Inventors:*

*James H. Mitchell,  
and William T. Mitchell.*

*By*

*Orin Marshall  
Atty.*

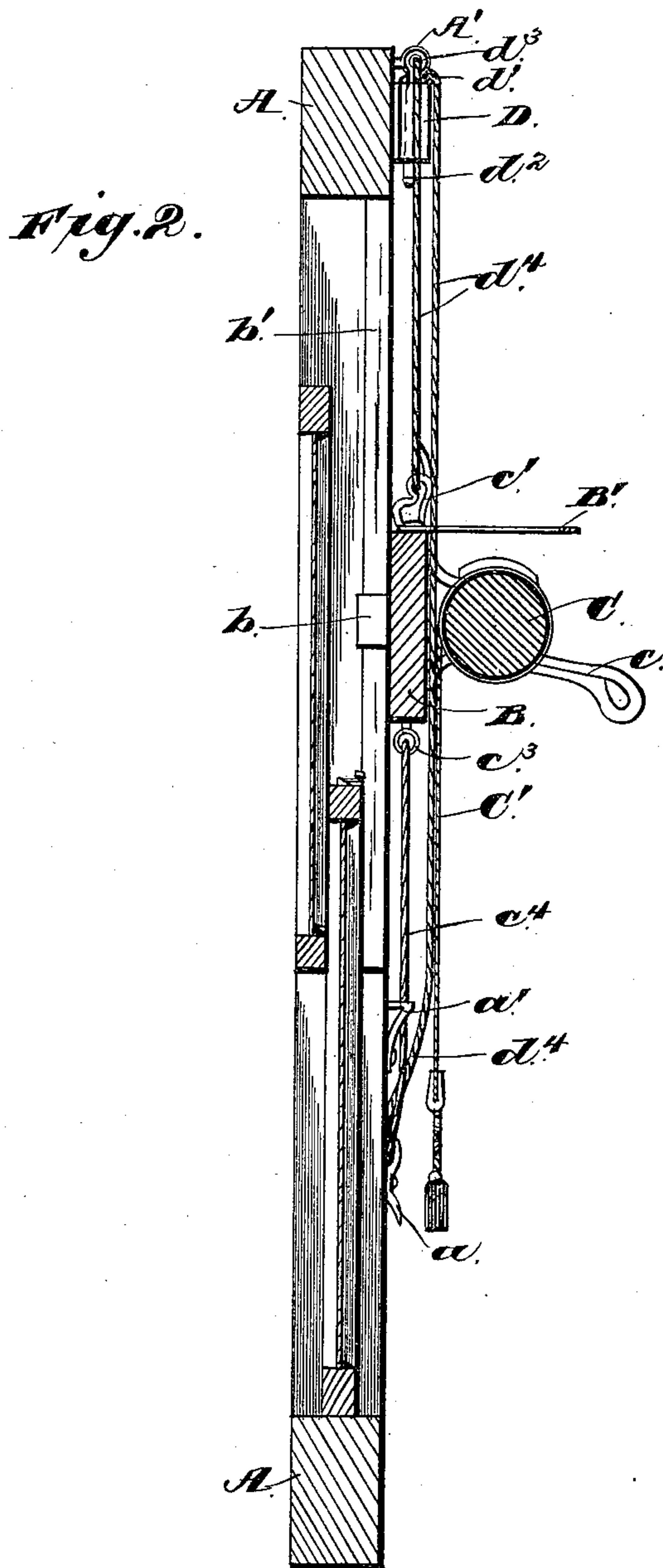
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# UNITED STATES PATENT OFFICE.

JAMES HARVEY MITCHELL AND WILLIAM THERADORE MITCHELL, OF  
WELLINGTON, KANSAS.

## ADJUSTABLE SHADE FOR WINDOWS.

SPECIFICATION forming part of Letters Patent No. 329,758, dated November 3, 1885.

Application filed September 10, 1885. Serial No. 176,700. (No model.)

*To all whom it may concern:*

Be it known that we, JAMES H. MITCHELL and WILLIAM T. MITCHELL, citizens of the United States, residing at Wellington, in the county of Sumner and State of Kansas, have invented certain new and useful Improvements in Adjustable Shades for Windows, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to adjustable shades for windows; and it consists in the construction and arrangement of the parts, which will be more fully hereinafter described, and pointed out in the claims.

The object of our invention is to provide a window-shade which is adjustably supported on a window-frame, and which is adapted to be moved up or down, so that the window-sash may be accessible from either the upper or lower portions thereof, or both, whereby the apartment may be readily ventilated without injury to the curtain.

A further object of our invention is to so construct the sliding support for the curtain that it may be readily adjusted to shade either the upper or lower portion of the window, thus allowing the single shade to serve the double purpose, being readily handled and operated and easily understood.

We attain these objects by the mechanism illustrated in the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, and in which—

Figure 1 is a front elevation of a window-frame with our improvement mounted thereon in a normal position, and showing in dotted lines the curtain-support slid downward. Fig. 2 is a transverse vertical section of the same with the sliding curtain-support drawn down and the upper sash of the window lowered for ventilation.

A indicates the window-frame, which is of ordinary construction and has a strip, *b'*, on each of its sides on the inside portion thereof and adjacent to the window-sash, which is best illustrated in Fig. 2. These strips *b'* are engaged by metal slides *b*, which are secured to a sliding support, B, upon which support

the curtain-roller C is mounted, which carries the curtain C'. The roller C may be of any preferred form of construction, and may be operated either automatically by springs or by a cord-and-ratchet movement, *c*. Upon the upper side of the curtain-support C' are mounted suitable wire loops, *c' c'*, having two apertures formed therein for the purposes which will be presently described. The upper portion of the window-frame A is provided with two strap-metal boxes, D D, in which are pivoted, as at *d*, the dogs D' D'. In the upper part of these boxes D coiled springs *d' d'* are mounted, which bear against the upper portion of the said dogs D' and keep them thrown back and the lower ends of the same thrown in the opposite direction. The lower ends of the dogs D' are formed in the shape of a hook, *d<sup>2</sup>*, and the upper portions thereof with a loop or eye, *d<sup>3</sup>*. The hooks *d<sup>2</sup>* engage with the lower parts of the divided loops *c'*, while the upper parts of said loops have cords *d<sup>4</sup>* fastened thereto, and from thence the cords pass up through the loops *d<sup>3</sup>* in the upper parts of the dogs D', and from thence to and through an eye, A', secured to the frame A. The cords *d<sup>4</sup>* each pass through the loop A', and are made sufficiently long to be within easy reach of the operator. The lower portion of the support B is also provided with an eye, *c<sup>3</sup>*, to which a cord, *c<sup>4</sup>*, is secured and hangs down to within reaching distance. These cords *d<sup>4</sup>* and *c<sup>4</sup>* pass down under the curtain C', and may be removed from the front of the window by being fastened to or thrown over an ornamental cleat, *a*, secured to one side of the window-frame. To the uppermost side of the support B a large wire loop, B', is secured, which extends outwardly over the other parts of the curtain-fixtures, and is adapted to have lace curtains or lambrequins attached thereto. When the support B and curtain C' are lowered, the curtains which may be attached to the support B', are also lowered, and will be uninjured by the dust coming in through the upper part of the window-sash, which may be open. On each side of the frame A, in the lower portion thereof, are mounted two stops or guards, *a'*, which limit the downward movement of the support B. These stops may be of suitable



construction and arrangement, and ornamented in any suitable manner.

Having thus described the mechanical construction of our improved window attachment, the operation of the same will be as follows: By pulling the cords  $d^4$  the top portions or loops,  $d^3$ , of the dogs  $D'D'$  will be drawn against the springs  $d'$   $d'$ , and the lower portions or hooks,  $d^2$ , will be drawn away from engagement with the divided loops  $c'$ , and by pulling the cord  $c^4$ , attached to the lower portion of the support B, the said support, curtains, and fixtures can be drawn downward, so as to leave a space above the same either to lower the upper sash and ventilate the apartment or to shade the lower portion of the window and permit the entrance of light through the top of the same. When the support B is pulled up again, by means of the cords  $d^4$ , the hooks  $d^2$  of the dogs  $D'D'$  engage the lower portion of the divided loops  $c'$  and securely fasten the said support in this position. By drawing the support only partially down from the top of the window the apartment can be ventilated from above and below at the same time, or light may be likewise admitted.

It is obvious that many minor details of construction could be made and substituted for those shown and described without in the least departing from the nature and principle of our invention.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In an adjustable shade for windows, the combination of the sliding support carrying the curtain and fixtures, cords for raising and lowering said sliding support, and spring-actuated dogs, operated by the supporting-cords, to secure and release the said sliding support, substantially as described.

2. In an adjustable shade for windows, the combination of the sliding support carrying the curtain and fixtures, divided loops secured to the top of the said support, spring-actuated dogs engaging the lower portion of the divided loops, cords secured to the upper portions of the divided loops and passing through loops formed on the upper parts of the said dogs, and a cord attached to the lower portion of the sliding support, said cords operating to raise or lower the said support, substantially as described.

3. In an adjustable shade for windows, the combination of the sliding support carrying the curtain and fixtures, divided loops secured to the top of the supporting-frame, spring-actuated dogs engaging in the lower portion of the divided loops, cords attached to the top portions of the divided loops and passing through loops in the top of the dogs, an eye at or near the center of the window-frame through which the two cords pass, a cord attached to the under side of the curtain-support, and stops on

each side of the window-frame to limit the movement of the said sliding support, substantially as described.

4. In an adjustable shade for windows, the combination, with the window-frame, of strips extending partially down each inside portion of the same, metallic straps sliding on said strips, a supporting-frame attached to said strips carrying curtains with suitable fixtures, divided loops attached to the top of the said supporting-frame, strap-metal boxes secured to the window-frame, dogs pivoted therein having loops formed on their upper ends and hooks on their lower ends, said hooks engaging with the divided loops on the sliding support, coiled springs actuating the dogs, cords attached to the top portions of the divided loops and passing through the loops in the upper portions of the dogs, an eye in the center of the window-frame engaging the cords, and a cord attached to the lower portion of the supporting-frame, substantially as described.

5. In an adjustable shade for windows, the combination of suitable strips on each inside of the window-frame engaging metallic slides, a supporting-frame secured to the metallic slides, a curtain-roller having suitable fixtures mounted thereon, divided loops on the uppermost part of said sliding frame engaging with spring-actuated dogs, a support secured to the top of the sliding frame for overhanging curtains, suitable cords attached to and passing through suitable eyes for operating the parts, and stops on the sides of the window-frame to limit the motion of the said sliding frame, all arranged and adapted to serve in the manner substantially as described.

6. In an adjustable shade for windows, the combination, with the window-frame A, of the strips  $b'$ , secured thereto, metallic slides  $b$ , engaging the said strips, a sliding frame, B, attached to said slides, a curtain-roller, C, carrying a curtain,  $C'$ , divided loops  $c'$ , secured to the top of the sliding frame, spring-actuated dogs  $D'$ , mounted in boxes D, engaging the lower parts of said loops  $c'$ , cords  $d^4$ , attached to the upper parts of said loop and passing through the loops  $a^3$  of the said dogs and through an eye,  $A'$ , secured to the window-frame, a cord,  $c^4$ , secured to the lower portion of the sliding frame, said cords acting to secure and release the sliding frame, a support,  $B'$ , for overhanging curtains mounted on the top of the said sliding frame, and stops  $a' a'$  on the side of the window-frame to limit the motion of the sliding support, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

JAMES HARVEY MITCHELL.

WILLIAM THERADORE MITCHELL.

Witnesses:

THOMAS H. DIXON,

ANDREW J. HARRIS.