

(No Model.)

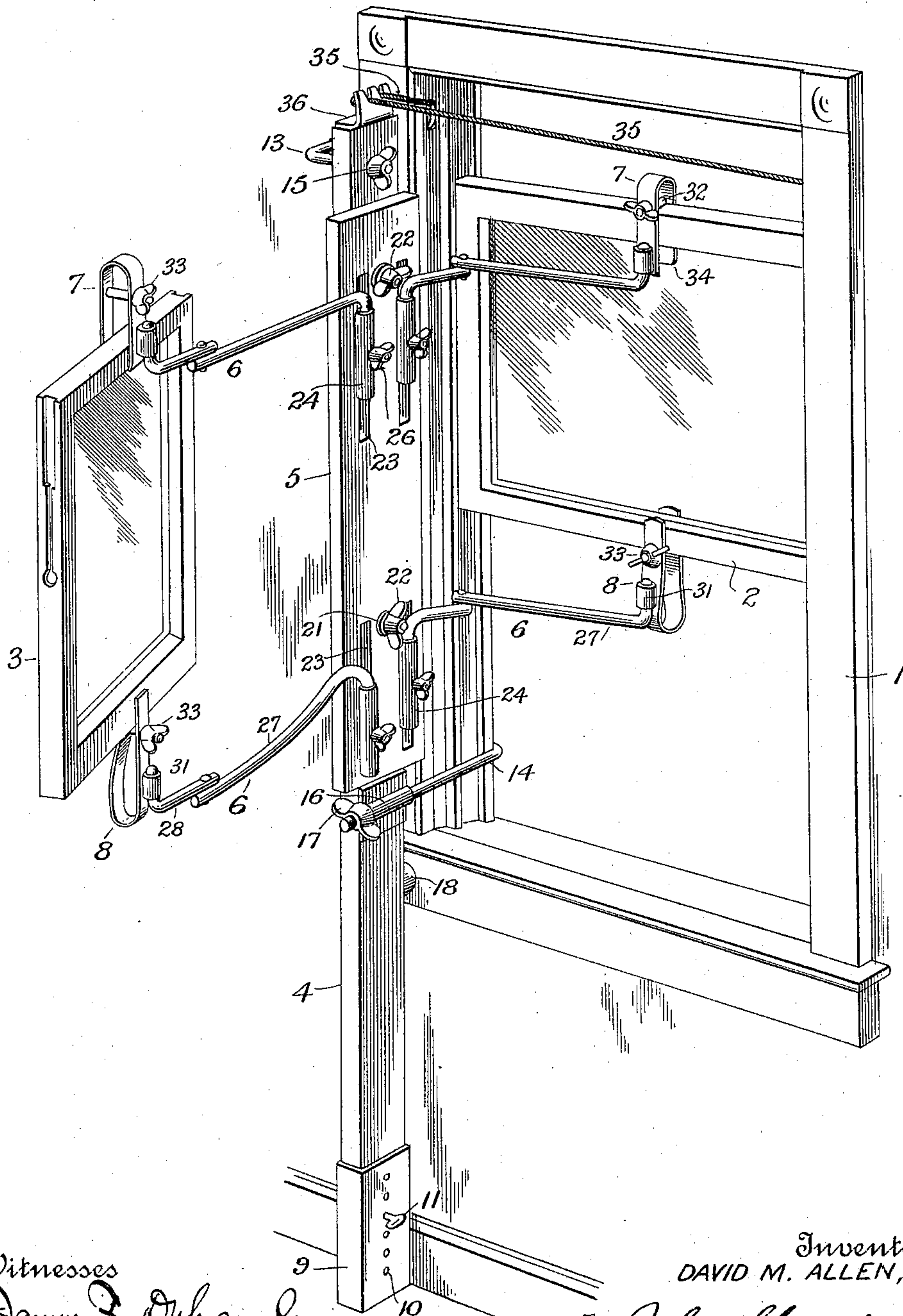
2 Sheets—Sheet 1.

D. M. ALLEN.  
WINDOW.

No. 598,214.

Patented Feb. 1, 1898.

Fig. 1.



Witnesses  
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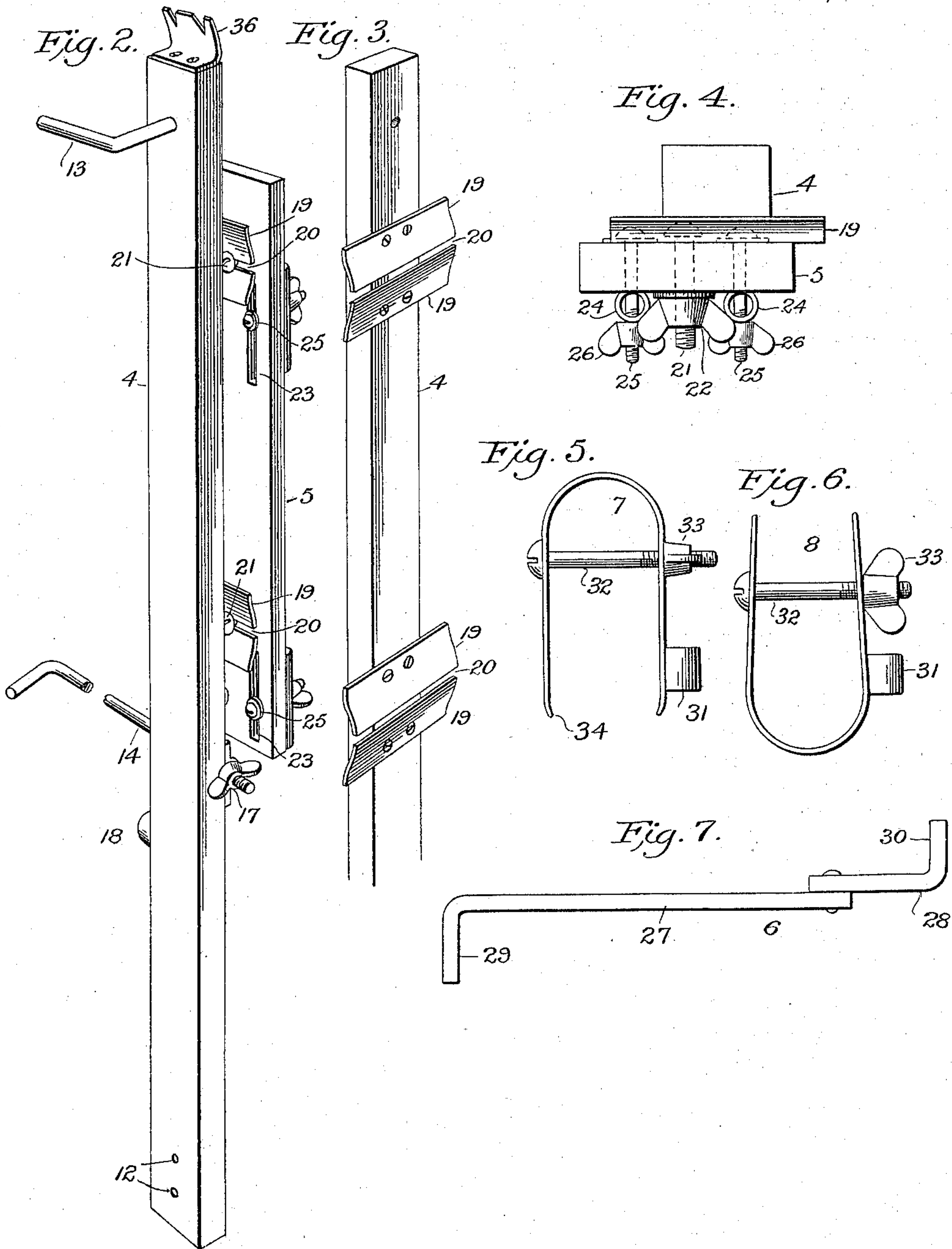
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# UNITED STATES PATENT OFFICE.

DAVID M. ALLEN, OF MELROSE PARK, ILLINOIS.

## WINDOW.

SPECIFICATION forming part of Letters Patent No. 598,214, dated February 1, 1898.

Application filed September 11, 1897. Serial No. 651,345. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID M. ALLEN, a citizen of the United States, residing at Melrose Park, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Windows; 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 appertains to make and use the same.

This invention has reference to a novel construction in devices by means of which window-sashes may be removed from the window-casing, swinging inwardly into the room and supported in convenient position for cleaning the outside of the same, without materially disturbing the general arrangement of the part and in a convenient manner.

The invention consists in the novel features of construction hereinafter fully described and specifically claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view showing a window-casing and sashes with this invention applied thereto and illustrating the manner in which the sashes are removed and supported. Fig. 2 is a perspective view of the upright and its adjustable plate, taken from the rear. Fig. 3 is a perspective view of the upper end portion of the upright. Fig. 4 is a top plan view of the upright and its adjustable plate. Figs. 5 and 6 are end elevations of the upper and lower clamps. Fig. 7 is a side elevation of the jointed supporting-arms.

Referring now to said drawings, 1 indicates the window-frame, 2 the upper sash, and 3 the lower sash. These parts are constructed in an approved manner, provided the right-hand stops are removable to allow the right-hand end of the sash to be swung outwardly to remove the sash from the frame. This invention comprises an upright 4, that is to be attached to one side of the window-frame and upon which is mounted the adjustable plate 5, carrying the supporting-arms 6. Upon the outer ends of these supporting-arms are arranged the clamps 7 and 8, by means of which the sash is supported upon the arms 6.

In the particular construction illustrated, the upright 4 is vertically adjustable conveniently by means of a shoe 9, that is in the

form of a sleeve to receive the lower end of the upright, and which is also provided with a plurality of openings 10, in which a pin 11 passes, that also passes through openings 12 in the lower end of the upright. In this way it is seen that the height of the upright can be regulated to conform to the height of the window-frame to which it is attached, so that the upright rests upon the floor of the room to give a firm support. The upright is attached to the window-frame by means of the hooked fingers 13 and 14, the upper finger 13 passing through the upper end portion of the upright and provided with a thumb-screw 15 or other tightening device, by means of which the hooked end thereof can be firmly fastened to the side edge of the window-frame. The lower finger 14 is secured to the side of the upright and extends at right angles to the upper finger 13. This lower finger 14 is held by a bearing-sleeve 16, fastened to the side of the upright, and is also provided with the thumb-screw 17, by means of which the hooked end thereof can be firmly secured against the outside of the window-frame, as shown in Fig. 1. The inner edge of the upright is provided with a cushion 18, that rests against the inner face of the window-frame and prevents the latter from being marred by reason of the attachment of the upright.

The plate 5 is adjustable laterally upon the upright, and the particular construction comprises the transverse plates 19, fastened to the inner face of the upright to furnish a transverse and horizontal guideway 20 between their inner edges. These guideways are situated near the upper end and about the middle of the upright to receive headed pins 21, that pass through the plate and through the guideway with their heads resting against the inner faces of the plates. By means of thumb-screws 22 the plate 5 can be firmly secured and adjusted laterally upon the upright 4. Secured to the plate 5 and near the upper and lower ends thereof are upright bearings to receive the ends of the supporting-arms and to permit the swinging thereof, said bearings being vertically adjustable upon the plate. The particular construction comprises upright slots 23, near the upper and lower ends of the plate 5, and tubular sockets 24, that are secured to the plate



by means of headed pins 25, that are secured to the tubular sockets and pass through the slots 23 and are held in position by means of thumb-screws 26. It is seen from the foregoing description that the upright 4 can be adjusted vertically, while the plate 5 is adjustable laterally upon the upright, while the supporting-arms are adjustable vertically upon the plate 5. In this way the attachment is adapted for convenient and successful uses with windows and sashes that vary in size and location, as is obvious.

The supporting-arms 6 comprise two sections 27 and 28. The supporting-arms that are employed to hold the lower sash are constructed with downwardly-extending pintles 29 on the ends of the long sections 27 and with upwardly-extending pintles 30 at the ends of the short sections 28, while the arms for supporting the upper sash have the pintles reversed, as shown—that is to say, the same supporting-arms can be used for the different sashes by reversing the same. This is to permit the relative movement of the two sashes, so that both pairs of the supporting-arms can be applied at the same time without interference. The downwardly-extending pintles are inserted within the tubular sockets 24, while the upwardly-extending pintles at the outer ends of the arms extend into upright bearings or tubular sockets 31 upon the clamps 7 and 8. The said clamps 7 and 8 each comprise two spring-jaws that are joined by a bolt 32, provided with a thumb-screw 33, whereby the jaws can be forced toward each other. The jaws of the upper clamps 7 are provided with inwardly-projecting ends 34 to embrace the upper rail of the sash, and the sockets 31 are situated at the lower end of the jaws, while the jaws of the lower clamp 8 are plain, and the sockets 31 are situated near the rear ends thereof for obvious reasons.

In use it is seen that when it is desired to clean the outer sides of the windows the upright is first secured to the window-frame in the manner shown in Fig. 1, the sashes being raised to permit the insertion of the hooked finger 14. The clamps 7 and 8 are then fastened to the upper and lower rails of the sashes and the plate 5 and bearings 24 suitably adjusted. Downwardly-extending pintles of the supporting-arms are then inserted in the bearings 24. The upper sash is then moved to bring the upwardly-extending pintles 30 into the sockets 31, it being noted that the jointed arms are suitably bent for this purpose, and then by removing the inner stop of the window-frame the lower sash can be swung inwardly, it being noted that the sash-cords 35 are removed from the sashes and secured to the notched plate 36 upon the upper end of the upright.

In Fig. 1 the device is illustrated with both sash-cords removed from the lower sash and with said sash swung entirely into the room, although it is understood that the sash can be

swung inwardly by simply removing the right-hand sash-cord and securing it in the manner shown and then swinging the sash inwardly in an obvious manner. It is understood, of course, that the upper sash can be manipulated in the same manner, as will be seen upon reference to the drawings.

Having thus described the invention, what is claimed as new is—

1. A device of the kind specified comprising an upright having devices for attaching the same to a window-frame, and jointed supporting-arms pivotally supported upon said upright and provided at their outer ends with clamps that are pivoted thereto.

2. In a device of the kind specified, a vertically-adjustable upright having devices for attaching the same to a window-frame and jointed supporting-arms pivotally supported upon said upright and provided at their outer ends with clamps that are pivoted thereto.

3. In a device of the kind specified, an upright provided with an adjustable sleeve at its lower end, said sleeve being provided with openings, a pin to extend through the said openings of the sleeve and through an opening in said upright, means for securing the upright to the window-frame and jointed supporting-arms pivotally supported upon said upright and provided at their outer ends with clamps that are pivoted thereto.

4. In a device of the kind specified, an upright provided with means for securing the same to a window-frame and provided with a notched plate at its upper end, and jointed supporting-arms pivotally supported upon said upright and provided at their outer ends with clamps that are pivoted thereto.

5. In a device of the kind specified, an upright provided with the hooked fingers secured thereto and extending at right angles to each other and provided with adjusting ends for securing the same to the window-frame, and jointed supporting-arms pivotally supported upon said upright and provided at their outer ends with clamps that are pivoted thereto.

6. In a device of the kind specified, an upright provided with means for securing the same to a window-frame, a laterally-adjustable plate secured to said upright, and the jointed supporting-arms pivotally secured to said plate and provided with clamps that are pivoted thereto.

7. In a device of the kind specified, the upright provided with means for securing the same to a window-frame, lateral guideways upon said upright, a plate having headed bolts situated within said guideways and provided with adjusting ends, and jointed supporting-arms pivotally secured to said plate and provided with clamps that are pivoted thereto.

8. In a device of the kind specified, the upright provided with means for securing a frame, the plates secured to said upright, the upright bearings carried by said plate, and



the jointed supporting-arms having pintles on their inner ends to enter said bearings and provided at their outer ends with clamps that are pivoted thereto.

5 9. In a device of the kind specified, the upright provided with means for securing the same to a window-frame, a plate secured to said upright and provided with a longitudinally-adjustable upright bearing, and the  
10 supporting-arms having pintles at their inner ends to enter said bearings, and provided at their outer ends with clamps that are pivoted thereto.

15 10. In a device of the kind specified, the upright provided with means for securing the same to a window-frame, a plate secured to said upright and provided with upright slots, tubular sockets secured to said plate by means of headed bolts passing through said slots and  
20 provided with adjusting-nuts, jointed supporting-arms having pintles at their inner ends to enter said tubular sockets, and provided at their outer ends with clamps that are pivoted thereto.

25 11. The combination with the jointed supporting-arms pivotally supported at their inner ends, of clamps pivotally secured to the outer ends of said arms, the upper clamp extending downwardly and provided with inwardly-projecting ends while the lower clamp  
30 extends upwardly.

12. The combination with the upright stationary bearing, of the jointed supporting-arms having downwardly-extending pintles at  
35 their inner ends to enter said bearings, and provided with upwardly-extending pintles at

their outer ends, of clamps provided with upright bearings to receive said pintles.

13. The combination with the upright stationary bearing, of the jointed supporting-  
40 arms having downwardly-extending pintles at their inner ends to enter said bearings, and provided with upwardly-extending pintles at their outer ends, an upper clamp having downwardly-extending jaws provided with in-  
45 wardly-projecting lower ends, an adjusting screw and nut, and an upright bearing near the lower end of one of the jaws to receive the pintles of the upper arm, and an upwardly-extending lower clamp having an adjacent  
50 screw and bolt and provided with an upright bearing near the rear ends of its jaws to receive the pintle of the lower arm.

14. In a device of the kind specified, the upright provided with means for securing the  
55 same to a window-frame, the laterally-adjustable plate mounted thereon, longitudinally-adjustable upright bearings carried by said plate, jointed supporting-arms having downwardly-extending pintles at their inner ends  
60 to enter said bearings, and provided with upwardly-extending pintles at their outer ends, and clamps provided with upright bearings to receive said upwardly-extending pintles.

In testimony whereof I have signed this  
65 specification in the presence of two subscribing witnesses.

DAVID M. ALLEN.

Witnesses:

CHARLES W. BURNETT,  
SAMUEL E. M. ALLEN.