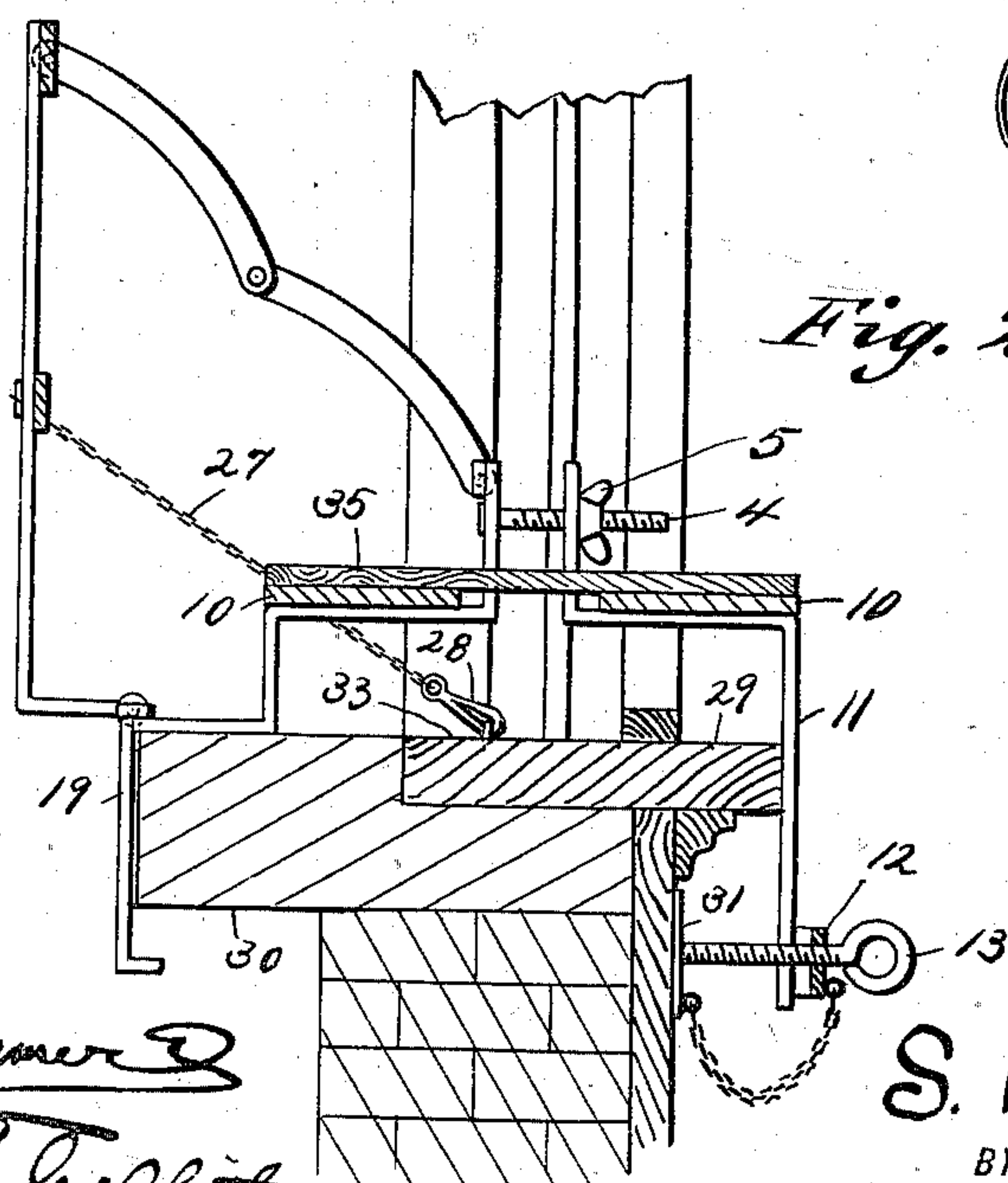
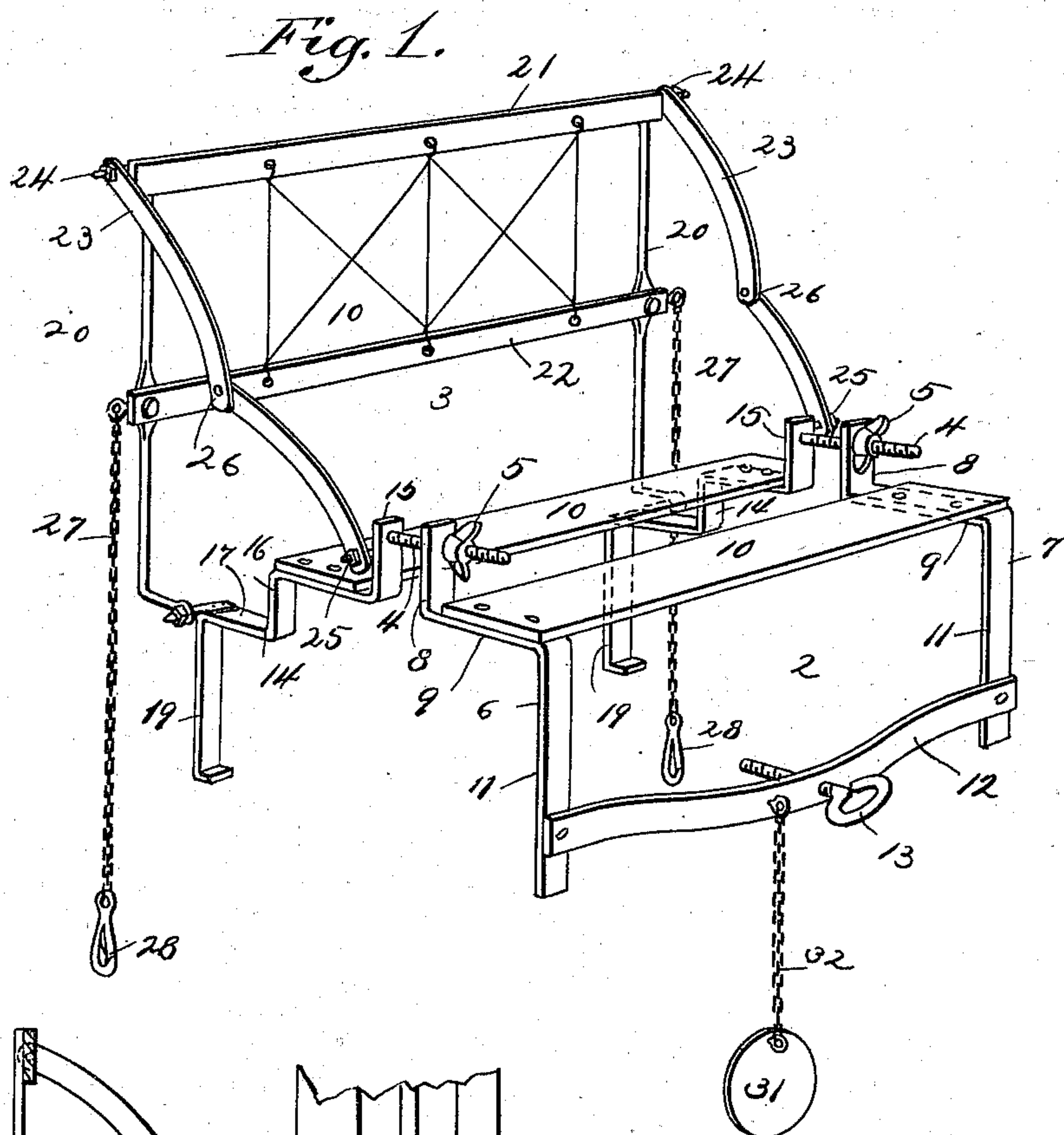


(No Model.)

S. RABINOWITZ.
METAL WINDOW CLEANING CHAIR.

No. 560,644.

Patented May 26, 1896.



WITNESSES:

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SUNDEL RABINOWITZ, OF NEW YORK, N. Y.

METAL WINDOW-CLEANING CHAIR.

SPECIFICATION forming part of Letters Patent No. 560,644, dated May 26, 1896.

Application filed March 26, 1895. Serial No. 543,192. (No model.)

To all whom it may concern:

Be it known that I, SUNDEL RABINOWITZ, a subject of the Emperor of Russia, and a resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Metal Window-Cleaning Chairs, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar figures of reference indicate corresponding parts in both views.

This invention relates to window-cleaning chairs; and the object thereof is to provide an improved chair of this class which is adapted to be firmly secured to the bottom of a window-frame or the sill thereof, and which possesses many advantages not heretofore known or employed.

The invention is fully described in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a perspective view of my improved chair; and Fig. 2, a transverse section through the chair and the bottom of a window-sill to which it is attached, showing also the window-facing and a portion of the house wall below the window.

My improved window-chair consists, preferably, of two frames or sections 2 and 3, which are united by means of screws 4 and thumb-nuts 5, as clearly shown in Figs. 1 and 2. The front section consists of angular end pieces 6 and 7, which have upwardly-directed end pieces 8, through which the screw-bolts referred to pass. The flat or horizontal piece 9, on which a portion of the seat 10 is placed, has downwardly-directed end pieces 11, with which is connected a bar 12, through which passes a thumb-bolt 13, which serves as a part of the clamping device by which the chair is secured in position. The other or back portion of the chair-frame also comprises angular end pieces (designated by the numeral 14,) which are provided with upwardly-directed end pieces 15, which correspond with the end pieces 8 on the front portion of the frame and through which the screw-bolts 4 also pass. Rearwardly of these the end pieces are provided with a horizontal section, on which rests a portion of the seat 10, and back of this with downwardly and outwardly directed sections 16 and 17, at the

end of which are hinged the back 18 of the chair proper, and below this extend vertically-downward legs or arms 19, which constitute a part of the means for holding the chair in position on the window-sill.

The hinged back of the chair consists of a frame having end pieces 20 and two cross-bars 21 and 22, the last of which is preferably arranged at about the middle of the end pieces and secured thereto in any desired manner, and arms 23, pivotally connected at each side of the back and at the top thereof with said back at 24 and also with the front part of the back frame preferably at the outer side of the upwardly-directed end pieces 15 at 25, as shown in Fig. 1. These arms are also divided at their middles and pivotally connected, forming elbow-joints 26, and secured at each side of the back is a chain, cord, or equivalent device 27, having clamp-hooks 28 at the free ends, which also assist in securing the chair in position on the window.

The operation is as follows: It being desired to clean the window, which is not shown, and the same being raised so as to admit of putting the chair in position, the chair is placed on the window-sill, as shown in Fig. 2, the front legs 11 coming in contact with the window-sill 29 on the inner side of the window and the rear legs 19 of the back frame of the chair coming in contact with the window-facing 30, as is also shown in said figure, and the front and back portions of the chair or seat may then be drawn tightly together by means of the thumb-nuts 5 on the screw-bolts 4, and the thumb-bolt 13 may now be used to more permanently secure the chair in position, a buffer-plate 31, connected with the arm 12 of the front frame by means of a chain 32, being used, as shown in Fig. 2, to prevent injury of the inner wall or defacement thereof. The chains 27, by means of their spring-hooks 28, may then also be connected with loops or hooks 33, secured in the window-sill. It will be observed that the clamps formed by the screw-plates 4 and thumb-nuts 5 and also the thumb-bolt 13 may be tightened to any desired extent and the chair held firmly in position in such manner that its accidental displacement is impossible, and it will also be observed that by reason of

the fact that the back of the chair is hinged, as described, and provided with the hinged jointed arms, the said back may be folded forward and the front and rear portions of the frame of the chair may be disconnected and the same packed or folded into a comparatively compact form to facilitate its handling or shipment or storage, when desired.

Having fully described said invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination in a window-cleaning chair of the character described, of the adjustable angular sections adapted to be secured upon each side of the window-sill, said section being composed of vertical and horizontal portions, the upwardly-extending end portions being provided with an opening in which is secured a screw-threaded bolt to force said sections together, and the outer section being provided with an inwardly-directed shaft or flange, adapted to engage the window-sill and the lower portions of the inner section being united by a horizontal plate, provided with a thumb-screw and a circular disk, the plates or strip secured upon the horizontal portion of said frame and the hinged back also secured to said frame, substantially as described.

2. The combination in a window-cleaning chair of the character described, of the ad-

justable angular sections adapted to be secured upon each side of the window-sill, said section being composed of vertical and horizontal portions and upwardly-extending end portions provided with an opening in which is secured a screw-threaded bolt to force said sections together, and the outer section being provided with an inwardly-directed end or flange, adapted to engage the window-sill and the lower portions of the inner section being united by a horizontal plate, provided with a thumb-screw and a circular disk, the plates or strips secured upon the horizontal portion of said frame, the hinged back consisting of the vertical rods pivotally secured upon the outer frame, and connected by the parallel close pieces, the sectional arms pivoted to each other and to said back of the outside frame and the chains carrying snap-hooks also secured to said back, and adapted to engage rings or eyebolts secured in the sill, and support said frame, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 21st day of March, 1895.

SUNDEL RABINOWITZ.

Witnesses:

PERCY T. GRIFFITH,
A. M. CUSACK.