

No. 724,799.

PATENTED APR. 7, 1903.

C. BUCKEL.

SAFETY CHAIR FOR WINDOW CLEANING.

APPLICATION FILED DEC. 24, 1902.

NO MODEL

Fig. 1.

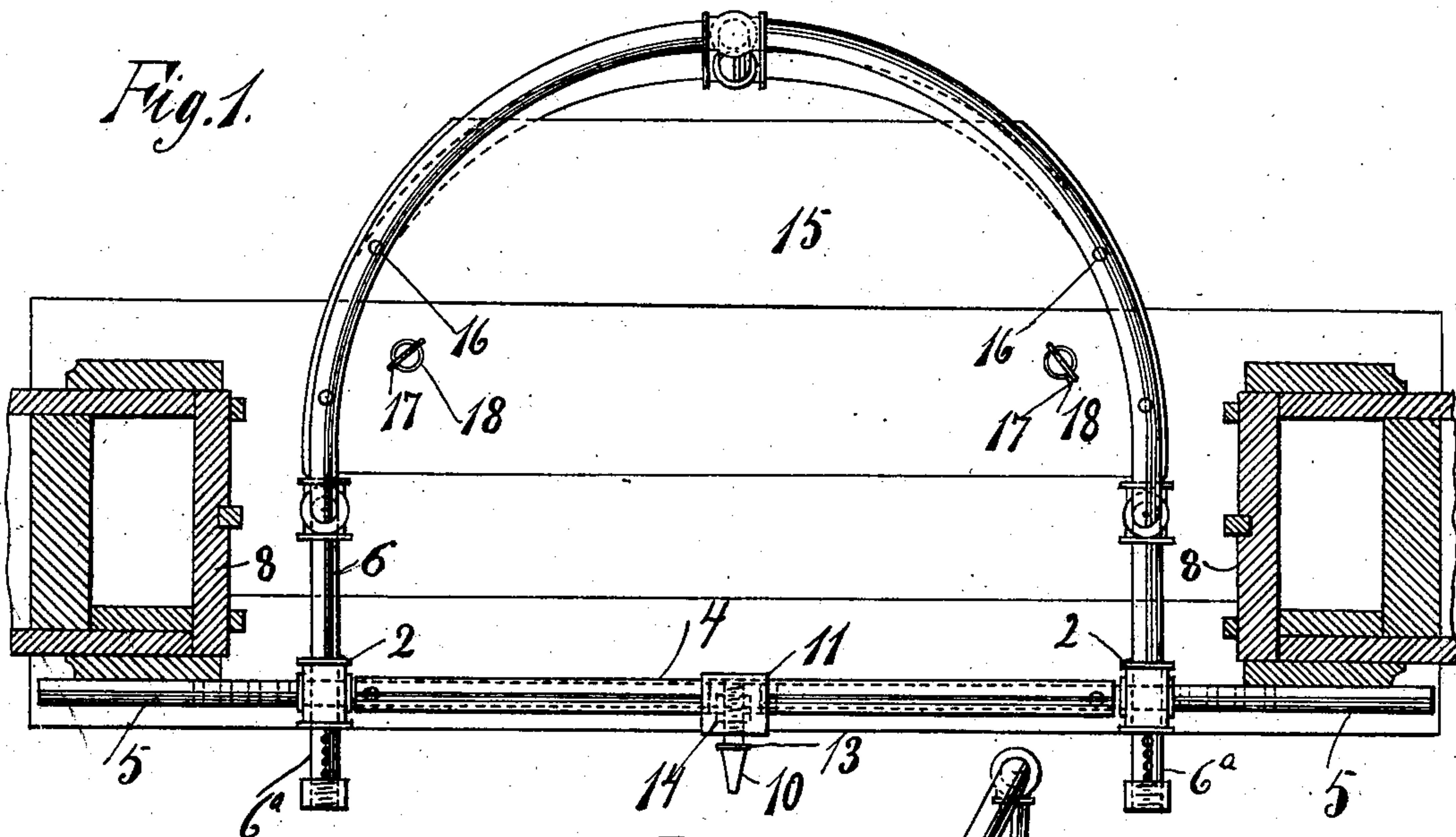
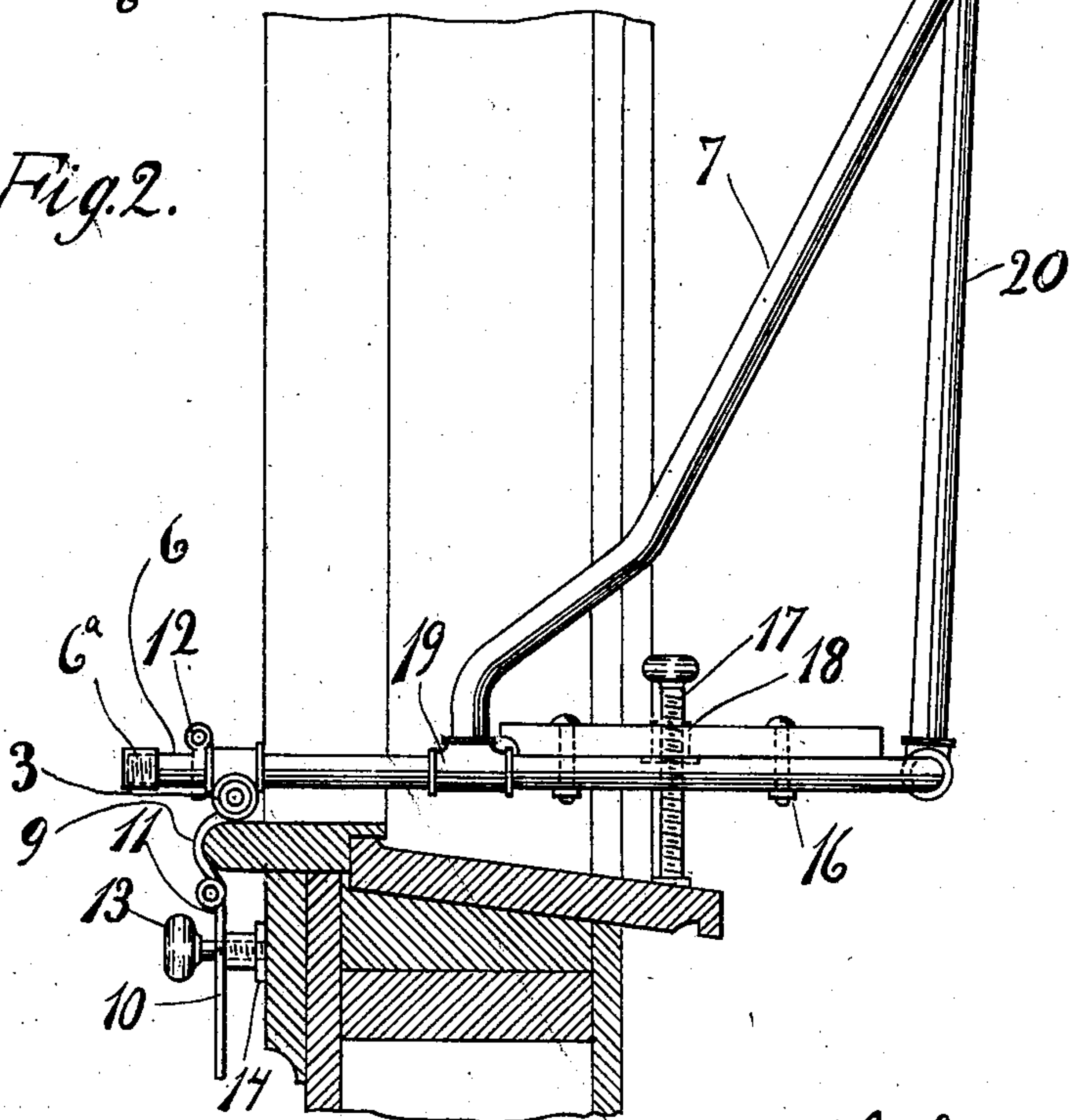


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CHARLES BUCKEL, OF SAN FRANCISCO, CALIFORNIA.

## SAFETY-CHAIR FOR WINDOW-CLEANING.

SPECIFICATION forming part of Letters Patent No. 724,799, dated April 7, 1903.

Application filed December 24, 1902. Serial No. 136,466. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES BUCKEL, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Safety-Chairs for Window-Cleaning; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a safety-chair which is especially designed to use for cleaning windows.

It consists of a light portable frame with means for attaching it to the window-sill, so as to project outside, means for securely locking the seat in place, and means for adjusting it with relation to the inclination of the window-sill and also with relation to different widths of windows upon which it may be applied.

It further comprises details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a plan. Fig. 2 is a side elevation showing the application to a window.

My apparatus is especially designed for use where it is necessary for persons to sit or stand outside of the window for cleaning and like purposes.

As here shown, the base 6, which is preferably made of tubular pipe, is curved or otherwise suitably shaped where it projects outwardly from the window. The inner ends of the base portion 6 extend, essentially, parallel with each other and at such a distance as to pass inside of the window-casing of whatever thickness within the limits of the use of the particular seat, and the width between these ends is such that they may pass between the sides of the narrowest window where the device is to be employed. Fitted to these ends are slidable or otherwise movable sleeves 2, and these sleeves may be locked at any desired point either by pins, as 12, passing through holes made in the inner ends of the pipe 6, or they may be fixed by set-screws or any other suitable or well-known contrivance for lengthening and shortening, the object being to allow them to be moved in or out and fixed in position. Transversely

to these sleeves and as here shown are connected other tubular sleeves or sockets 3, which are adapted to receive a tubular transverse bar 4, extending between the two.

5 represents tubular extensions slidable through the sleeves and into the part 4, and these may be also secured by set-screws or otherwise when adjusted. These extensions are designed to slide in or out and to extend across the inside of the vertical window-stiles 8, and this adjustment enables me to fit a comparatively narrow apparatus to windows of considerably-greater width, since these extensions lying interior to the window-stiles are supported by them and the device is prevented from falling out. Centrally upon the intermediate tube 4 is fixed a sleeve or attachment 11, having connected with it a link, as at 9. This link is here shown as curved to fit over the inner edge of the window sill or seat, and to the lower end of it is hinged a plate 10, having several holes, through which a thumb-screw, as 13, passes.

Upon the interior of the window and just below the seat is preferably fixed a stationary socket-piece, as at 14, into which the threads of the screw 13 fit. When the parts are in place, the screw 13 is inserted into the socket-piece, and by means of its connection with the base-frame 6 through the transverse bar 4 and by means of the extensions 5, as previously described, the device is firmly secured to the interior of the window.

That portion of the frame 6 which projects exterior to the window has a seat-board 15 fitted to it and secured by bolts passing through the seat and through the tubular frame 6 and secured by nuts or otherwise, as shown at 16. Through this seat-board or some equivalent portion of the frame and in line above the window-sill pass the screws 17, preferably turnable, through metal sockets which are fixed into the seat-board, as at 18. The lower ends of the screws may have shoes or are otherwise fitted to rest upon the window-sill near the outer edge. The object of these screws is to level the apparatus to suit the different inclination of different window-sills. Thus by turning these screws the seat may be raised or lowered by reason of the hinge connection



between the plates 9 and 10 interior to the window-seat. The device will be turnable about this hinge and readily adjustable.

The protecting rail or support 7 is connected with the part 6, as shown, by means of a T or other suitable coupling, as at 19, in which case the exterior part 6 may be screwed into the outer end of the coupling and the interior extensions 6<sup>a</sup> may be screwed into the inner end of the coupling, thus forming practically a continuous piece, and the lower end of the part 7 is screwed or otherwise secured into the side opening of the T. This part 7 is curved upward and is made of any suitable or desired height.

If the device is to be used only as a seat, it need be only high enough to support the back of the occupant. If the person is to stand within it, the part 7 may be correspondingly extended and made higher. The central portion is preferably supported by one or more approximately tubular bars, as at 20, the lower end being suitably connected with the part 6 and the upper ends with the part 7.

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

1. A window-seat device including an approximately horizontal frame to extend through the window-opening said frame having sleeves slidably fitted to the ends and a tubular cross-bar extending between said sleeves, and lateral extension-bars fitting within the said cross-bar and slidable through said sleeves.

2. A window-seat device including an approximately horizontal bent frame; sleeves slidable upon the side members of the frame and means adjustably fixing the sleeves thereto; a tubular cross-bar extending between the sleeves; extensions of said cross-bar slidable through the sleeves and adapted to engage the inside of the window-frame; means for level-

ing the frame; and means for securing the frame to the interior and below the window-sill.

3. A safety window-seat consisting of a bent tubular frame having the ends projecting within the room, a seat fixed to the exterior portion, a tubular guard-frame surrounding said seat, sleeves slidable upon the inner ends of the horizontal seat-frame and means for adjustably securing them thereto, transverse sleeves formed or united with said slidable sleeves, a tubular frame extending between said sleeves, a plate secured to said transverse tube extending beneath the window-sill on the inside, a second plate hinged thereto, a screw and a socket-piece located beneath the sill into which the screw is fixed and screws passing through the seat exterior to the window and resting upon the exterior portion of the sill whereby the seat and its frame may be leveled with relation to the sill.

4. A safety window-seat consisting of a bent tubular frame, the ends of which extend into the room, a seat fixed to the exterior portion and a guard-frame attached to the seat-frame and extending upwardly exterior to the seat, means for adjustably supporting the seat from the window-sill, sleeves slidable upon the inner ends of the seat-frame, means for adjustably securing them thereto, a transverse tubular portion connected with said slidable sleeves, with means by which it is secured beneath the window-sill, tubular extensions slidable in the transverse tubular portion adapted to project and rest against the inner faces of the window-stiles and adjustable to varying widths of window.

In witness whereof I have hereunto set my hand.

CHARLES BUCKEL.

Witnesses:

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CHAS. E. TOWNSEND.