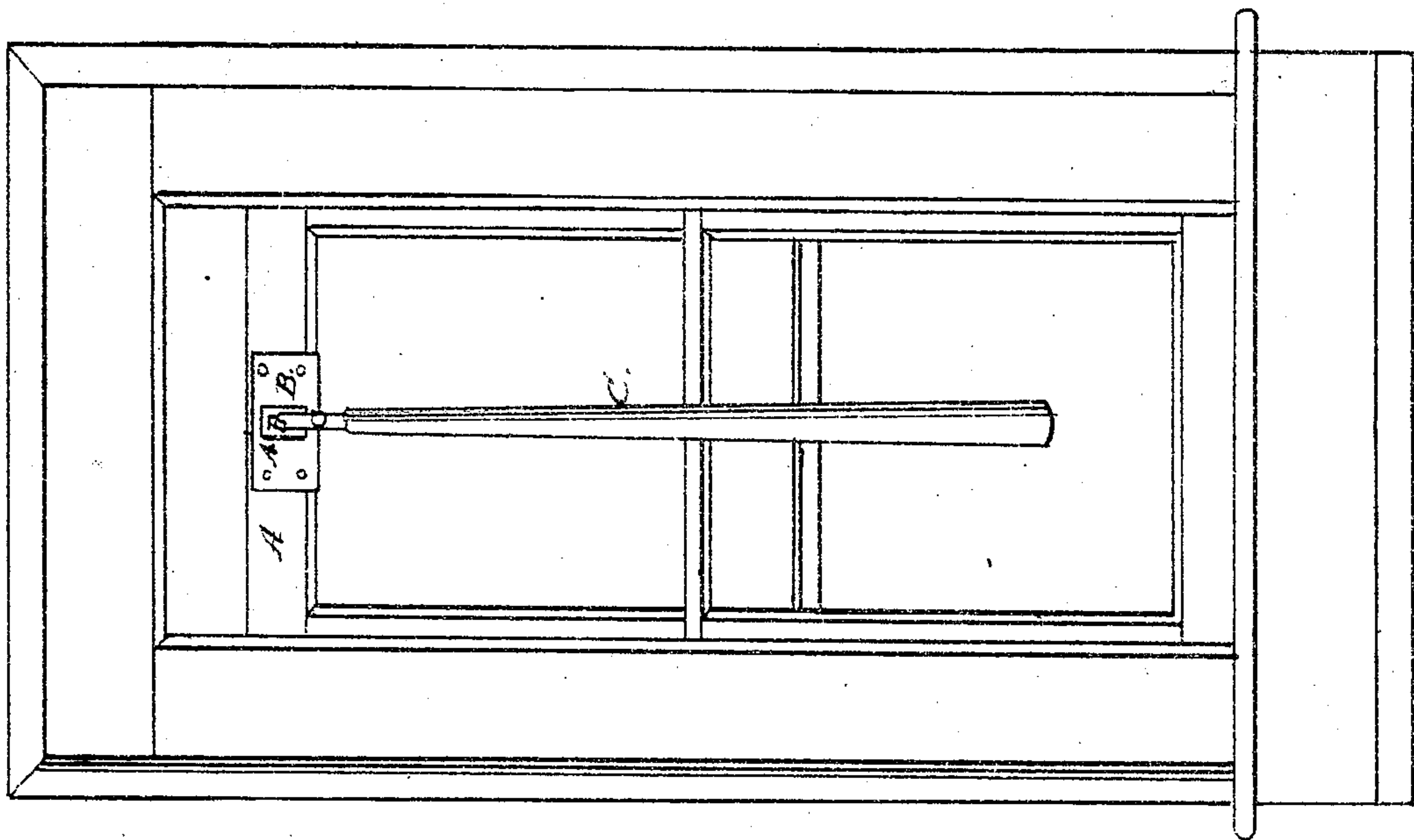
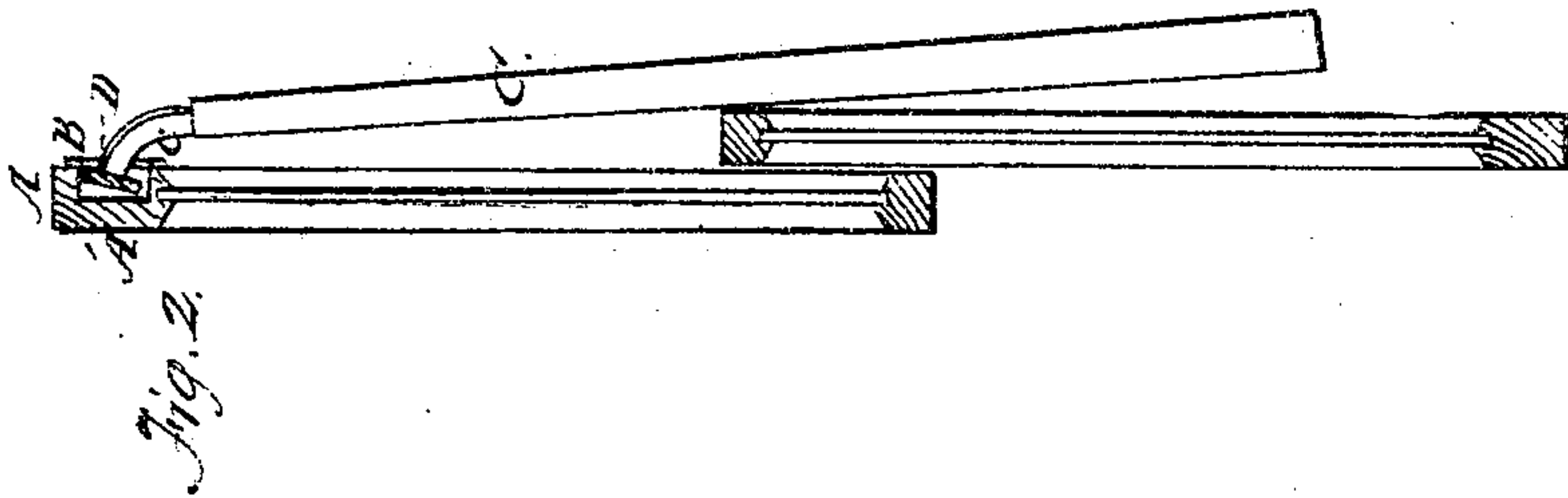


*J D Cramer*  
*Raising & Lowering Window Sash*  
*No 75249* *Patented March 10/1868*



*Fig. 1.*

*Witnesses:*  
*Chas. M. Smith*  
*Jno. S. Boone*

*Inventor:*  
*Jno D. Cramer*

# United States Patent Office.

JOHN D. CRAMER, OF SAN FRANCISCO, CALIFORNIA.

*Letters Patent No. 75,249, dated March 10, 1868.*

## IMPROVED DEVICE FOR RAISING AND LOWERING WINDOW-SASH.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN D. CRAMER, of San Francisco, county of San Francisco, State of California, have invented an Improved Device for Raising and Lowering the Upper Sash to Windows; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

The nature of my invention is to provide an improved device for raising and lowering the upper sash to windows, more especially those windows composed of one light or pane of glass, known as plate-glass. To do this, I cut an opening or slot midway in the upper or transverse part of the sash, over which is placed a plate having an opening large enough to admit the end of a rod or pole, curved at its upper end, and having a flat vertical plate attached to it. Referring to the accompanying drawings, to more fully illustrate and describe my invention—

Figure 1 is a front elevation of a window.

Figure 2 is a side view.

In the centre of the front or top part of the upper sash, at A, I make a slot or opening, A', and place over it a slotted plate, B, the opening in which may be a little smaller than that of the hole in the sash. Great care should be taken to make the opening in the frame, and place the plate with the slot in it exactly in the centre of the sash, where it is attached, so that it will balance the window when it is raised and lowered, and not bind against the sides of the frame.

In order to open and close the window, I employ a stick, pole, or rod, C, of sufficient length, so that a person standing on the floor can perform the operation without reaching high, and place in the end of it a curved piece of metal, c, having a vertical flat plate, D, so that it will easily fit into the opening in the sash, passing through the slot in the plate, and be loosely held by it, when, by laying hold of the pole or rod, and pulling down upon it, the upper sash is lowered, when the stick is removed, and placed in a corner of the room, to be used in closing the window, which is done by simply placing the end of it in the opening and pushing upward.

By this means, a ready article is at hand for opening and closing windows without recourse to stools and chairs, and the danger of pulling off the lower portion of the sash, or loosening its fastenings, is avoided, as well as the liability of breaking the glass, for want of some place to get hold of, as where single panes or plate-glass is used, and the window binds a little on the sides of the frame, in which case great strength is often necessary to be exerted at a great disadvantage, as no reliable hold can be obtained; but by the use of the rod and hook, above described, the operator is in no danger of injuring himself or the window.

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

The combination and arrangement of the several parts of my device, namely, the recess A, with the slotted plate B and the plate D, connected to the staff C by the curved piece c, substantially as described.

In witness whereof, I have hereunto set my hand and seal.

JNO. D. CRAMER. [L. s.]

Witnesses:

C. W. M. SMITH,

JNO. L. BOONE.