

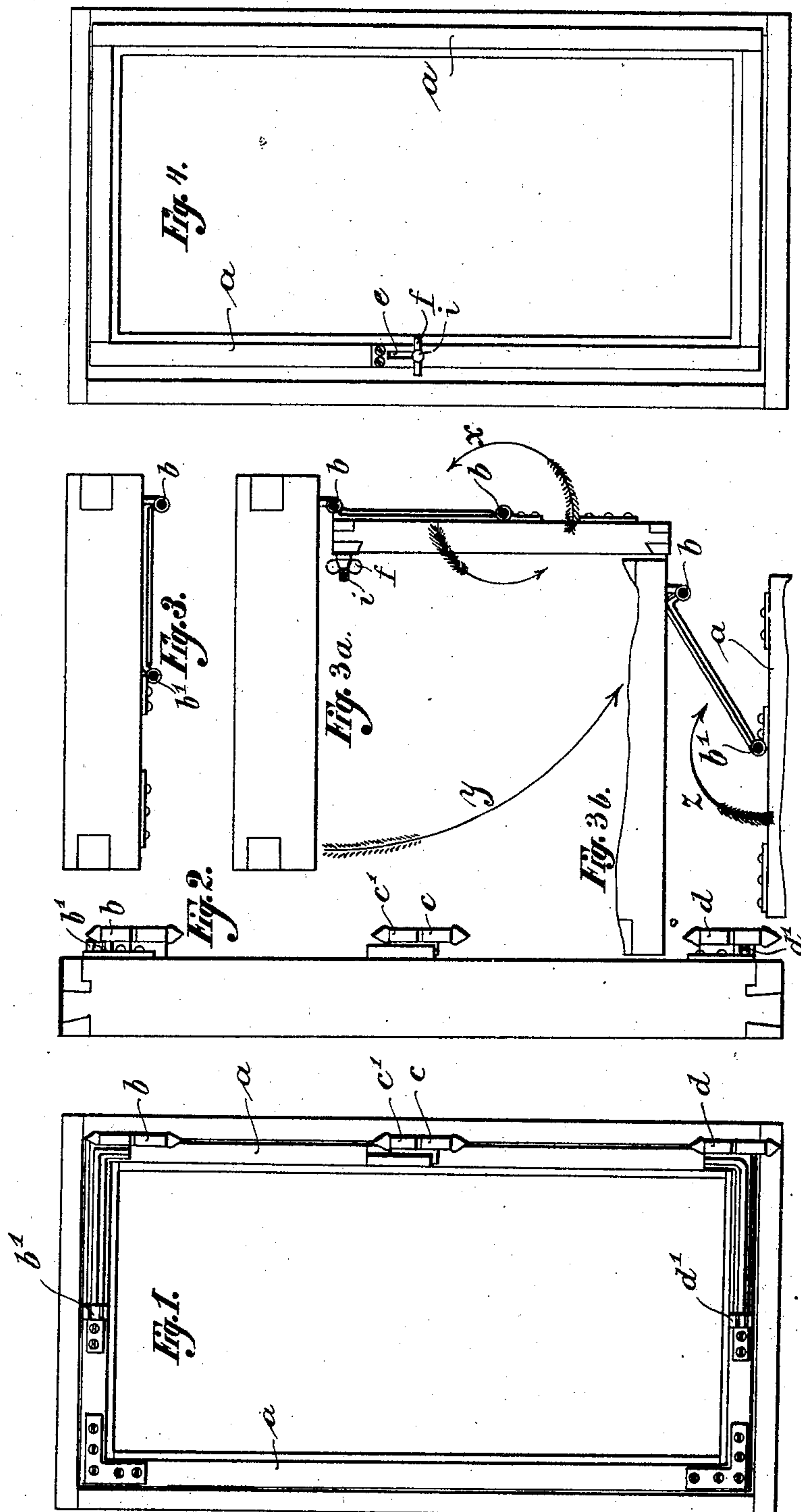
No. 711,633.

Patented Oct. 21, 1902.

K. JÖRGENSEN.  
WINDOW FRAME.

(Application filed Jan. 7, 1902.)

(No Model.)



Witnesses:-  
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# UNITED STATES PATENT OFFICE.

KONRADUS JÖRGENSEN, OF BERGEN, NORWAY.

## WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 711,633, dated October 21, 1902.

Application filed January 7, 1902. Serial No. 88,726. (No model.)

*To all whom it may concern:*

Be it known that I, KONRADUS JÖRGENSEN, a subject of the King of Sweden and Norway, and a resident of Bergen, Kingdom of Norway, have invented certain new and useful Improvements in Window-Frames, of which the following is a full, clear, and exact description.

The present invention consists of improvements in window-frames; and its object is to render the cleaning of the panes more convenient and to decrease the danger of falling out of the window when cleaning the outside of the glass.

In order to render the present specification easily intelligible, reference is had to the accompanying drawings, in which similar letters of reference denote similar parts throughout the several views.

Figure 1 is a front elevation of the window seen from the outside; Fig. 2, an end elevation; Fig. 3, a plan of the same; Fig. 3<sup>a</sup>, a plan with the window open; Fig. 3<sup>b</sup>, a part plan with the window turned around, and Fig. 4 a view of the window seen from the inside.

The window *a* is hinged to the frame at *b*, *c*, and *d*, and the top and bottom hinges *b* and *d* are provided with prolonged arms, the outer ends of which are hinged at *b'* and *d'*, respectively, to the top and bottom of the window-sash *a* at about the center of the same. The central hinge *c* is provided with a movable part *c'*, which is capable of being lifted off the hinge-pin, the latter being fast to the window-frame, as usual in French sashes. The part *c'* slides in a slot *e*, Fig. 4,

of the sash, it having a screw *i* extending through said slot, and it may be clamped in position in the slot by means of a butterfly-nut *f*.

The device operates in the following manner: Referring to Figs. 3 to 3<sup>b</sup>, when the window is to be cleaned the nut *f* is first loosened and the hinge part *c'* pushed upwardly off the hinge-pin and the nut again clamped to retain the said part *c'* in its upper position. The window may now be swung open in the direction of the arrow *y*, Fig. 3<sup>a</sup>, and then turned on the hinges *b'* and *d'* in the direction of the arrows *x* to bring the outside of the pane around toward the inside of the room, as will be readily understood. After the window has been cleaned it is turned back in the direction of the arrow *z* of Fig. 3<sup>b</sup> and the nut again loosened, the part *c'* closed down onto its hinge-pin again, and the nut tightened up, when the window may be closed in the usual manner.

I claim as my invention—

In a French sash-window, the combination of arms hinged to the top and bottom of the frame, a hinge to which the sash is attached, and means for disengaging the sash from this hinge, and means for pivotally supporting the sash on the ends of the said hinged arms in the manner and for the purpose substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

KONRADUS JÖRGENSEN.

Witnesses:

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