

(No Model.)

G. W. GARDNER & L. APPLETON.
SASH FASTENER.

No. 555,368.

Patented Feb. 25, 1896.

Fig. 1.

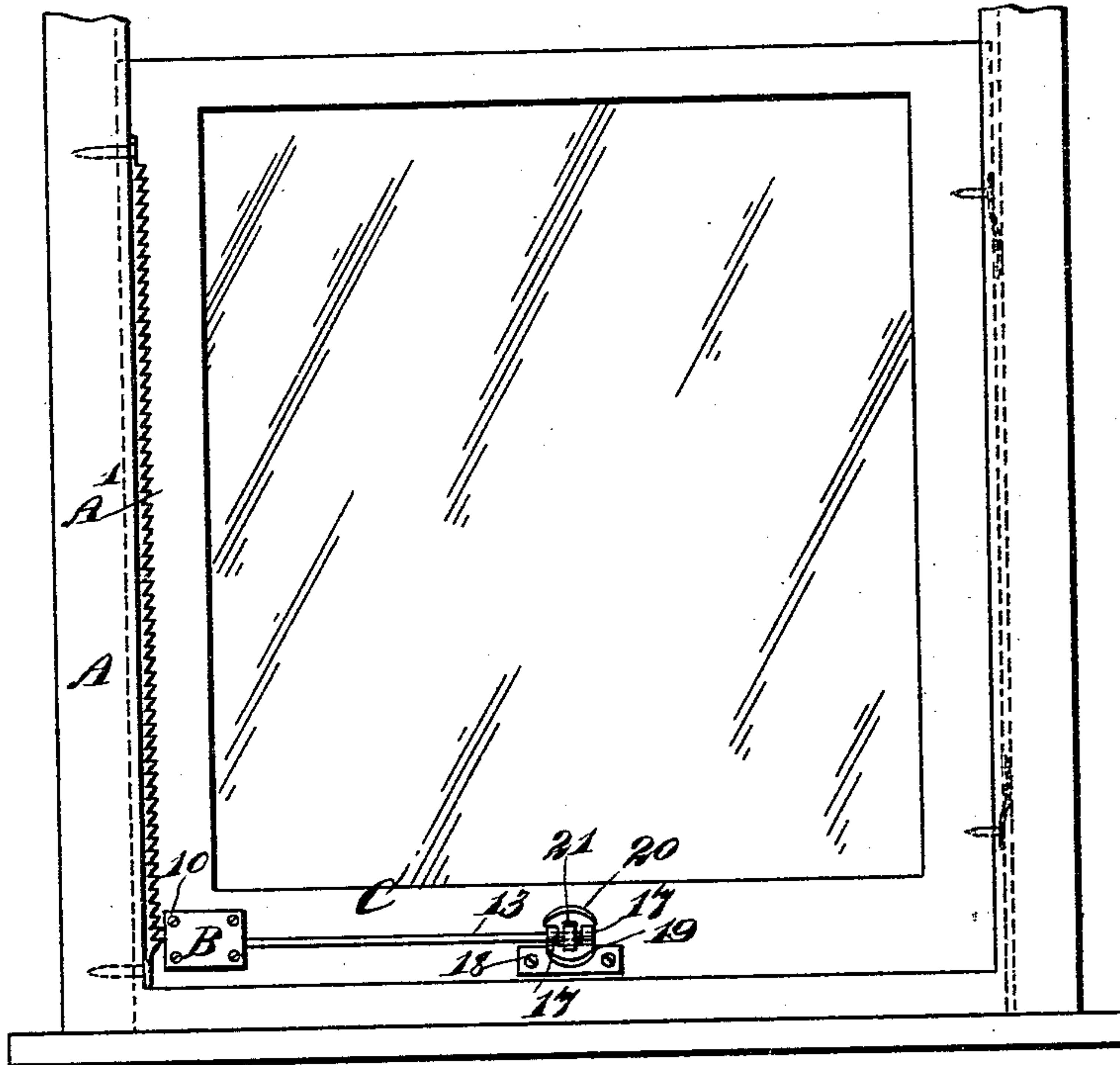


Fig. 2,

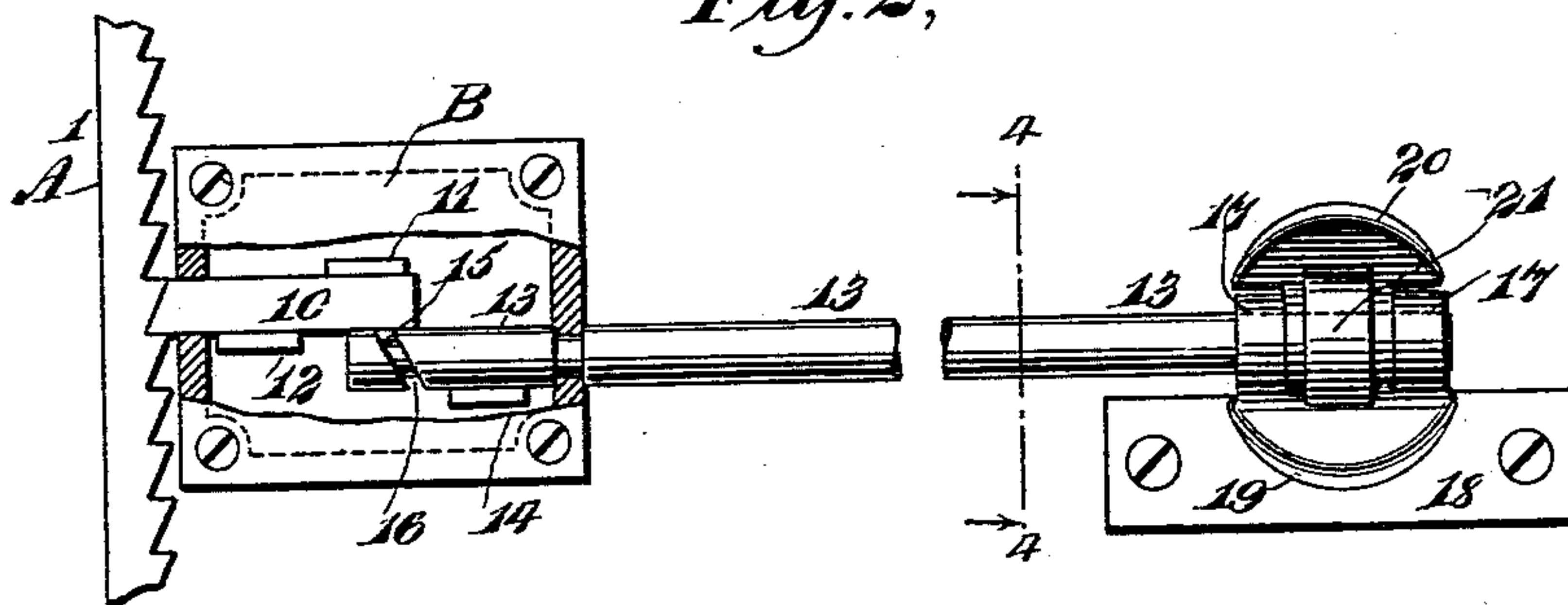
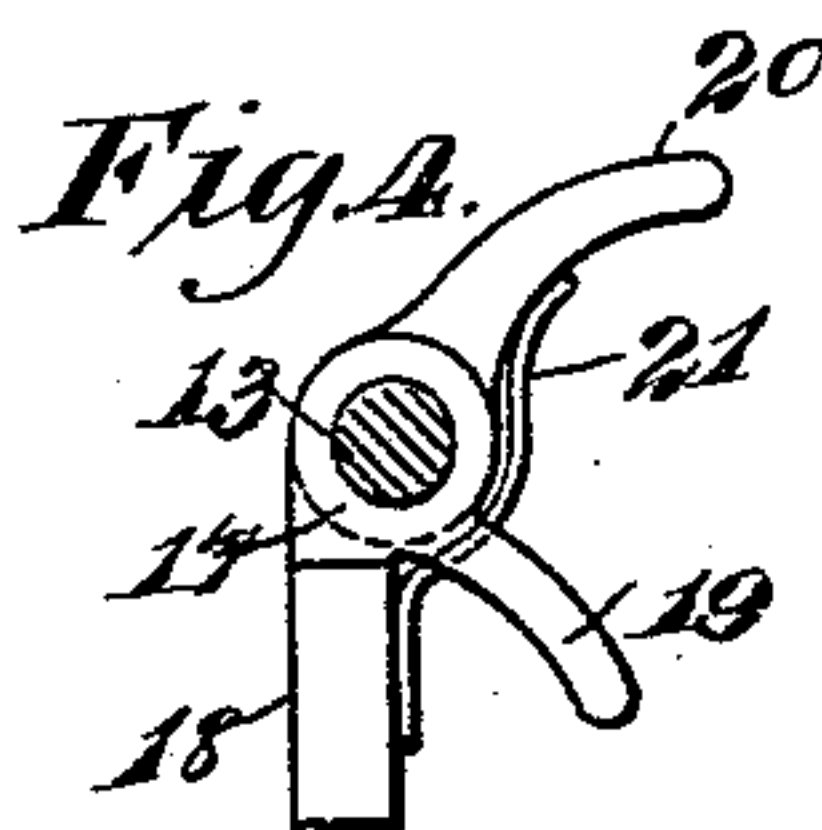


Fig. 3,



WITNESSES:

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GEORGE W. GARDNER AND LEWIS APPLETON, OF PHILADELPHIA, PENNSYLVANIA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 555,368, dated February 25, 1896.

Application filed August 23, 1895. Serial No. 560,230. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. GARDNER and LEWIS APPLETON, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Window-Fastener, of which the following is a full, clear, and exact description.

Our invention relates to devices for fastening windows and like objects, and the object of the invention is to provide a fastening device adapted for application to a window without materially marring the same, and which may be expeditiously and conveniently manipulated to permit the window-sash to be raised and lowered, or to lock the window-sash in desired position.

Another object of the invention is to provide a window-fastener which will be exceedingly simple, durable, and economic in its construction, and which may be manipulated with but one hand.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the device applied to a window. Fig. 2 is a vertical section through the said device. Fig. 3 is a bottom plan view of the bolt, and Fig. 4 is a section taken substantially on the line 4 4 of Fig. 2.

In applying the invention to a window-frame A, a bead of the window-frame is provided with a rack A', and the teeth of this rack are preferably made flat on the top and have a downward inclination at their inner faces, as is best shown in Figs. 1 and 2.

The device proper comprises a casing B, a bolt 10 having sliding movement within the said casing preferably between guides 11 and 12, and a shaft 13 adapted to actuate the said bolt, and the said shaft is held to turn between the bottom portion of the bolt 10 and a lower guide 14. The bolt 10 passes outward through one end of the casing B and is inclined at its outer extremity in order that it may fit snugly to the inclined surface of any one of the teeth and rest upon the flat sur-

face of the tooth below which its inclined face engages. The casing B is secured by bolts, screws, or otherwise to the window-sash C, preferably at the bottom rail thereof, as is also illustrated in Fig. 1, and as shown in Fig. 3 the said bolt 10 upon its under face near its inner end has a diagonal rib 15 formed thereon, and the said rib is adapted to enter a diagonal or inclined annular groove 16 made in the inner end of the shaft 13. The shaft 13 extends out through the casing at the side opposite that through which the bolt 10 is carried, and the said shaft at its outer end is journaled in lugs 17 spaced a suitable distance apart and formed upon a plate 18, the latter being adapted to be secured to the outer face of the window-sash, preferably at or near the central portion of its lower end. A handle 19 is made upon the outer face of the aforesaid plate, ordinarily beneath the apertured lugs 17 in which the shaft 13 is journaled, and between these lugs a thumb-plate 20 is secured on the shaft 13, and a spring 21 attached to the plate 18 extends upward to an engagement with the body portion of the said thumb-plate, as shown best in Fig. 4.

In the operation of the device, when the window is to be lowered the handle 19 is grasped by the fingers of one hand and the thumb-plate 20 is pressed downward against the tension of the spring 21 with the thumb of the same hand, and in so manipulating the thumb-plate 20 the shaft 13 will be rotated sufficiently to cause the bolt 10 connected with it to travel inward and clear the rack A'. When the sash has reached its proper position, upon releasing the thumb piece or plate 20 from pressure the spring will carry it to its original position and restore the bolt 10 to a locking engagement with the rack. The same manipulation of the bolt 10 is required when the window is to be raised.

This invention is exceedingly simple, durable, and economic, and as heretofore stated may be expeditiously and conveniently applied to any window-sash and its frame.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination, with a bolt, a shaft arranged to actuate the said bolt when said

shaft is rotated, a face-plate, a bearing on the
face-plate for one end of the shaft, a thumb-
plate secured to the shaft between its bear-
ings on the face-plate, a handle attached to
5 the said face-plate, the thumb-plate normally
extending over said handle, and a spring se-
cured to the face-plate and exerting tension

on the thumb-plate in an upwardly direction,
as and for the purpose specified.

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Witnesses:

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