

(No Model.)

D. W. CLARKE.

WINDOW SASH.

No. 370,930.

Patented Oct. 4, 1887.

Fig. 1.

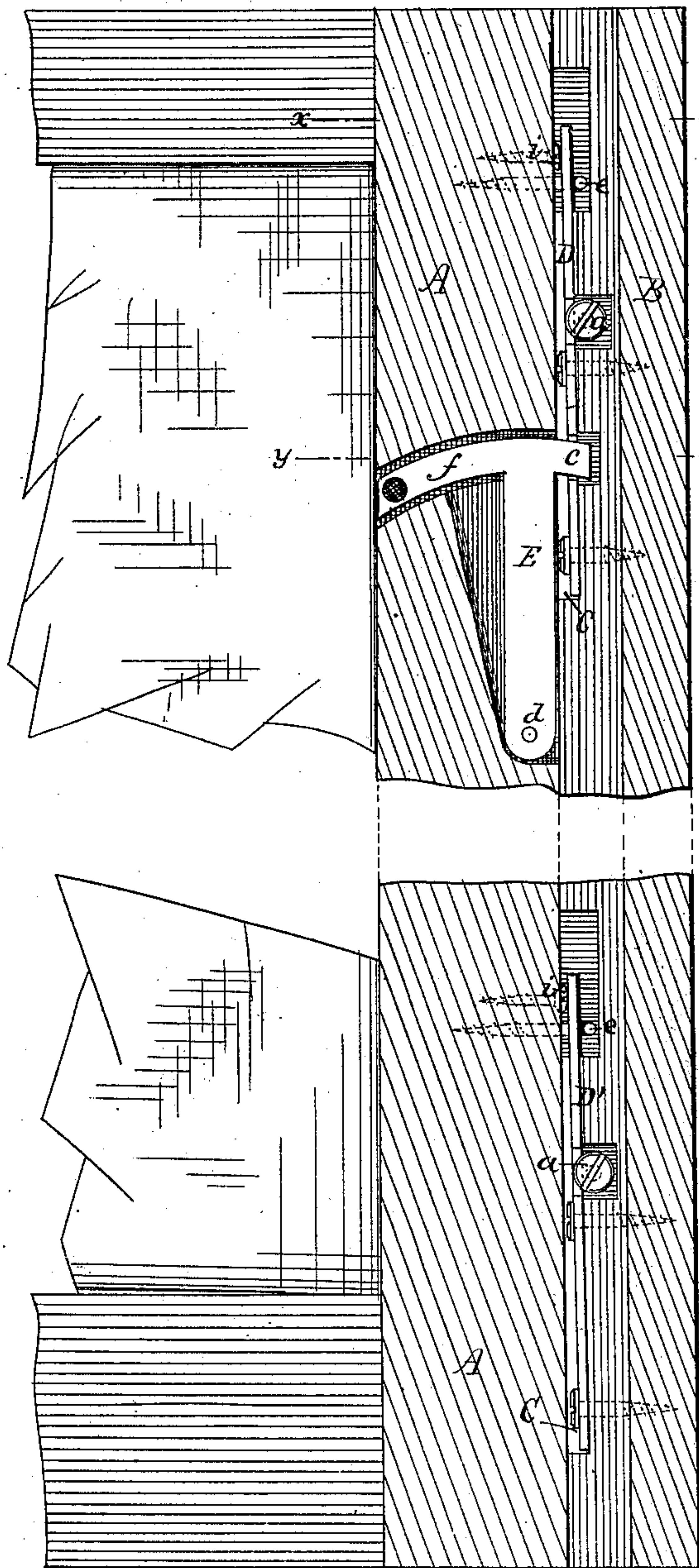


Fig. 2.

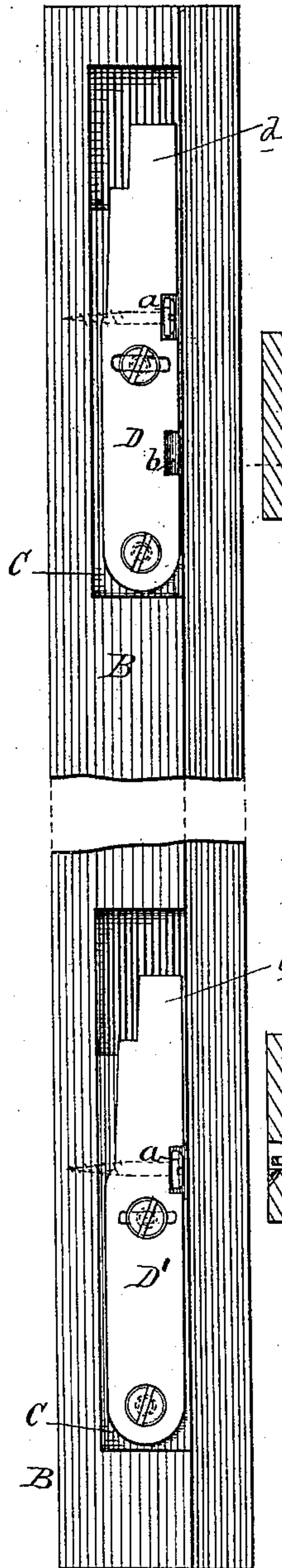


Fig. 3.

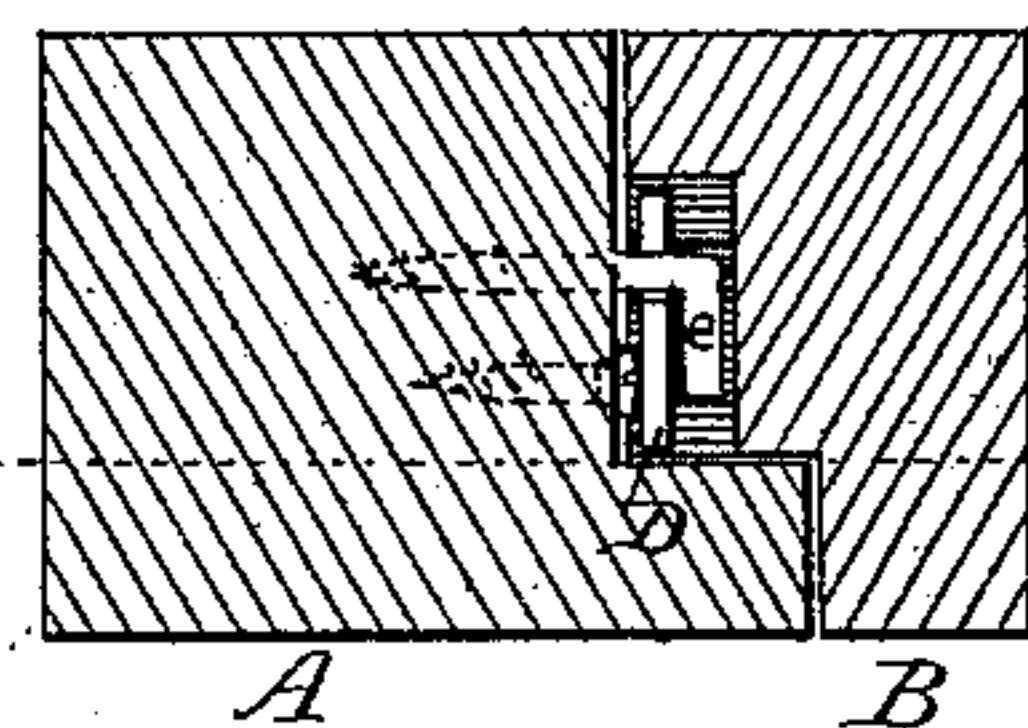
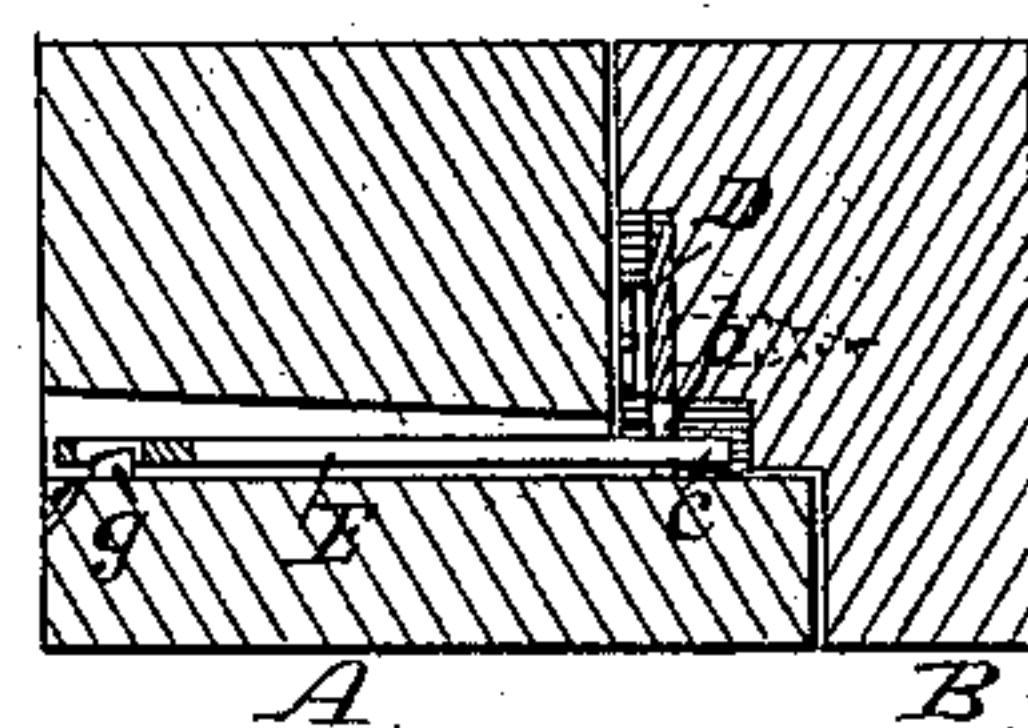


Fig. 4.



WITNESSES:

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WINDOW-SASH.

SPECIFICATION forming part of Letters Patent No. 370,930, dated October 4, 1887.

Application filed December 14, 1886. Serial No. 221,498. (No model.)

To all whom it may concern:

Be it known that I, DAVID W. CLARKE, a citizen of the United States, residing at Tidioute, in the county of Warren and State of Pennsylvania, have invented certain new and useful Improvements in Window-Sashes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to window-sashes constructed to be readily removed from their frames without detaching either the parting or stop beads or any part of the frame; and it consists in the peculiar construction and arrangement and combinations of parts, hereinafter more fully described, and then pointed out in the claims.

In the drawings, Figure 1 shows a side elevation of part of a sash with the side bar shown in section through the dotted line in Fig. 3. Fig. 2 is a side elevation of the movable strip detached from the frame; Fig. 3, a cross-section of the side bar through the line *x x* in Fig. 1, and Fig. 4 a similar section through the line *y y* in the same figure.

A represents the side bar of the sash, and B a detachable strip, both of which are rabbeted, as may be readily seen in Figs. 3 and 4, so as to fit snugly together and be perfectly even on both sides of the sash. Each detachable strip has (preferably) two recesses, C, cut in it to receive metal plates D D', each of which is secured in its recess by screws or other equivalent means. The upper ends of these plates form tongues *d*, and slip into sockets formed by hooks *e*, screwed or driven into the side bar; but they may be made in the form of staples, if preferred, and I should consider staples as the equivalent of hooks. The upper screw-hole in the plate D is slotted, so that the position of said plate may be adjusted sidewise by means of the set-screw *a*, the head of which is sunk into a recess in the plate and bears against the bottom of the recess, so that by screwing in the screw *a* the plate is forced over sidewise, whereby compensation may be made for shrinkage.

Between the upper and lower fastening-

screws in the plate D is another recess, *b*, (see Fig. 2,) into which passes the nose *c* of a swinging catch, E, pivoted at *d* in a recess in the side bar. The upper end of this bar terminates in a curved arm, *f*, which extends to the inner side of the bar A, and there is a hole through the extremity of the curved arm, which hole receives a pin, *g*, as shown at Fig. 4, by means of which the catch is locked fast in the position shown in Fig. 1.

A screw, *i*, is inserted in the bar A, just above each hook *e*, which forms a bearing for the tongue *d* and prevents its cutting away the wood and sinking too deep into the bar A. By turning the screw either in or out, according to circumstances, the tightness or looseness of the plate in the socket may be adjusted as desired. This may also be accomplished by turning the hook in its bearings; but the screw is the most convenient device for this purpose, as a nicer adjustment can be had.

To take this sash out of the window, it is only necessary to press the end of the curved arms *f* off the pin *g*, and then draw it slightly to the left, which moves the nose *c* out of the recess in the plate. The strip B will then readily slip downward, when the sash may be removed for cleaning. To replace the sash in position, it is only necessary to slip the ends of the tongues *d d* into the sockets *e e*, and then push in the catch E until the pin *g* slips into the hole in the end of the curved arm *f*, when the detachable strip B will be found to be securely locked to the bar A, and all the parts concerned in fastening the strip to the sash will be entirely concealed, leaving the sash perfectly smooth on both sides.

What I claim as new is—

1. The combination, with the recessed side bar, A, detachable side strip, B, fitted thereto, a catch working in the recess in the side bar, and the hook *e*, attached to said side bar, of a plate attached to said detachable strip and provided with a tongue, *d*, to pass under said hook to prevent lateral motion of the strip B, and a recess to receive the catch to prevent vertical motion of the same, substantially as described.

2. The combination, with the recessed side bar, A, and detachable side strip, B, fitted thereto, a hook, *e*, attached to the bar A, and the catch E, provided with an arm, *f*, and a

nose, *c*, working in a recess in the side bar, of a plate attached to said detachable side strip and provided with a tongue arranged to pass under the hook to prevent lateral motion of the strip, and a recess to receive the nose *c* of the catch to prevent vertical motion of the same, substantially as described.

3. The combination, with the recessed side bar, A, and the detachable strip B, fitted thereto, the hook *e*, locking-pin *g*, and the plate D, having tongue *d* and a recess, *b*, attached to said strip B, of the catch E, working in a recess in the side bar and provided with a nose, *c*, fitting in a recess, *b*, in the plate D, and having an arm, *f*, catching on the locking-pin *g*, all substantially as shown and described.

4. The combination, with the side bar, A, and detachable strip B, fitted thereto, of the

tongue *d*, secured to the strip, and the hook *e*, attached to the side bar, and the adjusting-screw *i*, screwed into the side bar and acting on the tongue, substantially as described, and for the purpose specified.

5. The combination, with the side bar, A, and the detachable strip B, fitted thereto, of the hook *e*, attached to the side bar, the plate D, attached to the strip and having one of its screw-holes slotted, and the adjusting-screw *a*, screwing into the side strip and bearing on the edge of the plate, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID W. CLARKE.

Witnesses:

N. W. SHUGERT,
J. W. KINNEAR.