

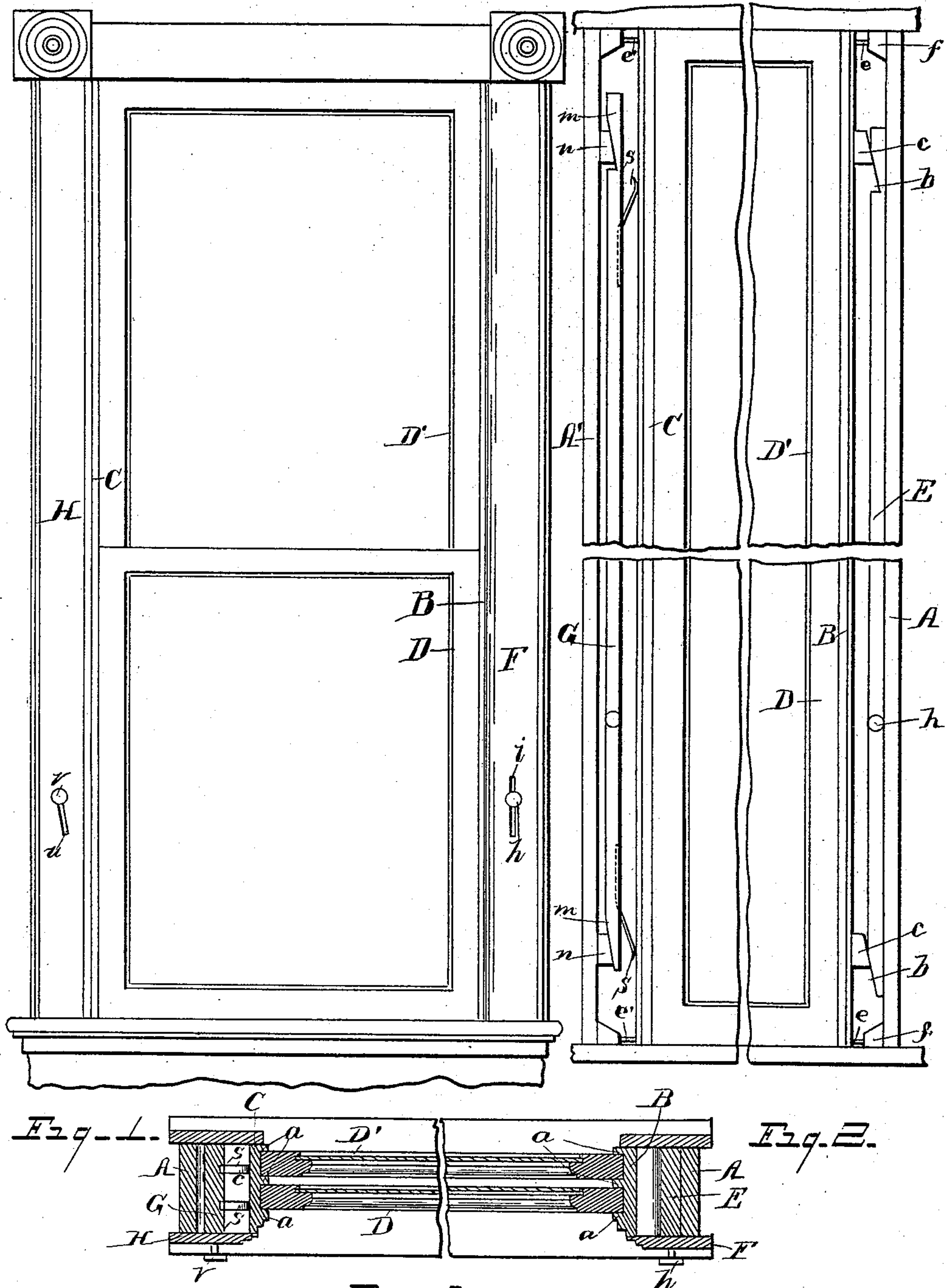
(No Model.)

2 Sheets—Sheet 1.

W. YOUNG.
WINDOW FRAME.

No. 491,034.

Patented Jan. 31, 1893.



WITNESSES.
D. A. Wheeler
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Fig. 3.

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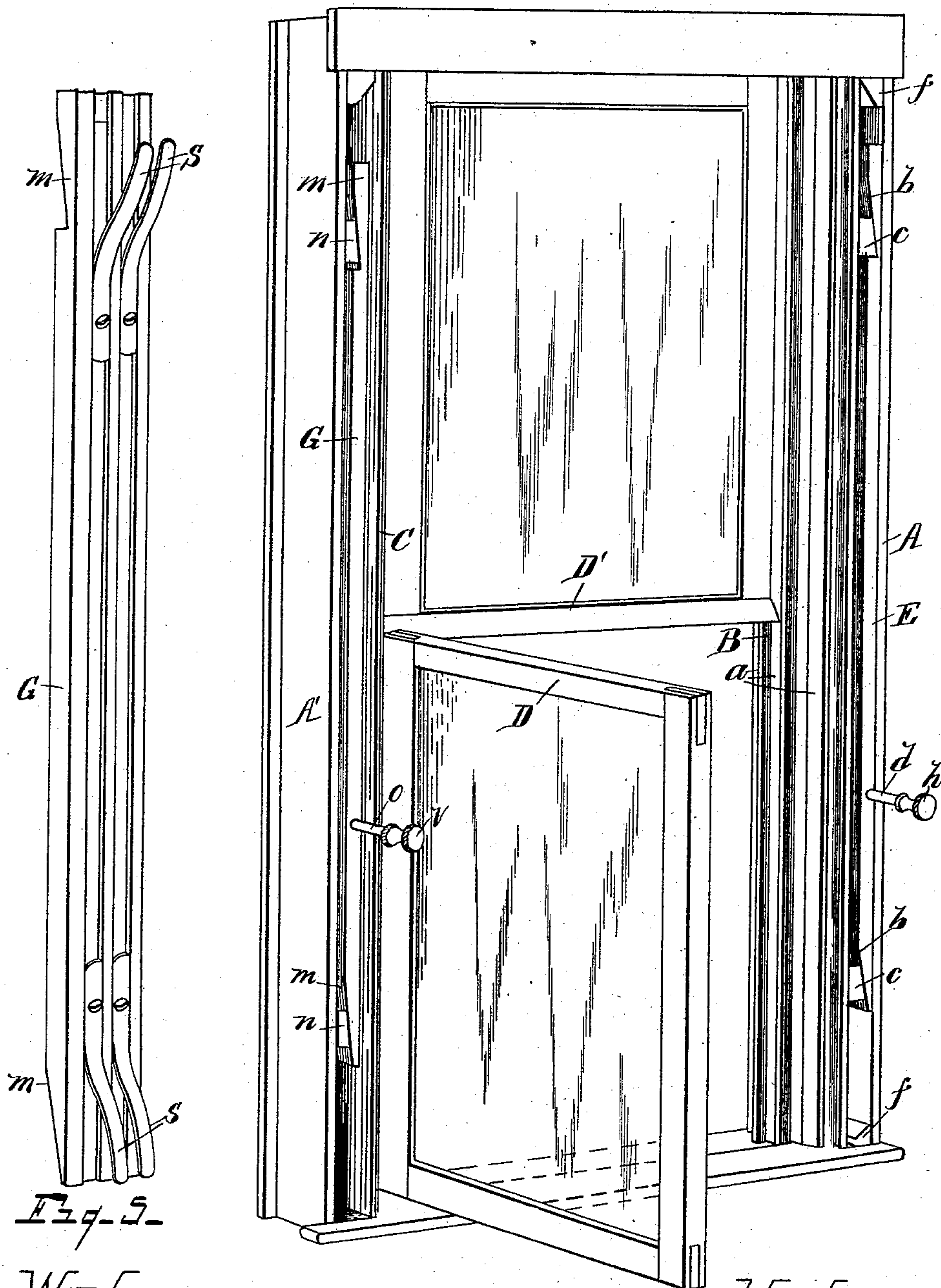
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UNITED STATES PATENT OFFICE.

WILLIAM YOUNG, OF WESTON, MICHIGAN.

WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 491,034, dated January 31, 1893.

Application filed February 23, 1892. Serial No. 422,366. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM YOUNG, a citizen of the United States, residing at Weston, in the county of Lenawee, State of Michigan, have invented certain new and useful Improvements in Window-Frames; and I do 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 the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in window frames; and consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which being pointed out particularly in the claims.

The object of this invention is to provide a window-frame, in which the construction and arrangement are such, as to enable the sash to be quickly and easily removed therefrom, and a further arrangement, whereby the jamb may be adjusted to compensate for all shrinkage of parts, and to lock the sash, when desired, at any point in the frame. This object is attained by the mechanism illustrated in the accompanying drawings, in which;—

Figure 1, is an elevation, of a window-frame and casing embodying my improved features. Fig. 2 is an enlarged elevation of the same, portions of which are broken out, showing the casing removed. Fig. 3 is an enlarged horizontal section through the frame, and the upper and lower sash, being so arranged to show the position of said sash when slidingly mounted in the movable jambs of the frame. Fig. 4, is a perspective view showing the casings removed and the lower sash swung out of the frame. Fig. 5 is an enlarged perspective of one of the jamb actuating wedges, removed from the frame.

Referring to the letters of reference, A, A', indicate the stationary jambs or sides of the window frame; B, and C the movable jambs thereof; and D', D, the upper and lower sash, respectively, adapted to slide vertically in said movable jambs which are provided with the ordinary stops *a*, (see Figs. 3 and 4) that confine the sash in place. The construction of the frame is such as to afford an open space

between the adjacent faces of the stationary and movable jambs. In this space at the right of the frame, as shown, is located a vertically adjustable piece E, extending nearly the entire length of the frame, and being provided with the wedge-shape end portions *b*, that bear against the beveled blocks *c* attached to the inner face of the movable jamb B, whereby, when said wedge-piece descends, the jamb is forced outward, and when the wedge-piece is raised, said jamb may be depressed, which in its lateral movement slides on the horizontal screw-pins *e*, shown in Fig. 2, that pass loosely through the ends of said jamb, and are screwed into the corner blocks *f*, respectively, of the frame. The heads of said pins are counter sunk in the jamb and by screwing said pins into or out of said blocks, the outward throw of said jamb may be regulated.

Secured in the edge of the wedge-piece E, is a pin *d*, that passes freely through a vertical slot *i* in the casing F, as shown in Fig. 1, the outer end of said pin carrying a knob *h*, by means of which said wedge-piece is actuated.

On the opposite side of the frame, and located in the open space between the movable and stationary jambs, is a similar wedge-piece G, whose wedge-shaped end portions bear against the beveled blocks *n* secured to the stationary jamb A'. Said wedge-piece G, is vertically adjustable, and is provided on its face adjacent to the movable jamb C, with curved springs *s* that bear against the inner face of said jamb near each end thereof. The jamb C, like the jamb B, is mounted to slide laterally on the horizontal pins *e'* that pass loosely through the ends of said jamb and serve as guides therefor in its lateral movement. By means of the springs *s* bearing against the movable jamb C, and which are held in engagement therewith by the gravity of the wedges G, said jamb is held in yielding contact with the sash, permitting the sash to be freely raised or lowered, but taking up all shrinkage of the parts so as to cause the sash to fit snugly in the frame, obviating the rattling of the sash therein. When it is desired to lock the sash at any point in the frame, it is placed in the desired position and the wedge-piece G slid downward, whereby the springs *s* press the movable jamb C against

the edge of the sash with sufficient force to firmly hold the sash in place. By raising the wedge G the pressure of said springs against the jamb C is relieved, permitting the sash to be raised and lowered as before.

Attached to the wedge-piece G is an outwardly projecting stem *o*, as shown in Fig. 4, that passes loosely through an oblique slot *u* in the casing H, (see Fig. 1,) the outer end of said stem having a knob *v*, by which means said wedge piece is adjusted. When it is desired to remove the sash from the frame to clean the glass, or for other purposes, the wedge-piece E at the right of the frame, is raised, through the medium of the knob *h*, the jamb B may then be depressed sufficiently to enable the sash to be swung out of the frame past the stops, as shown in Fig. 4, and when replaced in the frame, the wedge is slid downward forcing the jamb outward to its normal position, and securing the sash in place, as before described, affording simple and effective means for the removal and replacing of the sash, and for locking the sash within the frame.

Having thus fully set forth my invention what I claim as new and desire to secure by Letters Patent, is;—

1. The combination with the window-frame, of the movable jamb located therein and having the beveled bearings on the outer face thereof, the gravity wedge interposed between

said bearings and the frame, the stem and knob attached to said wedge by means of which it may be actuated, substantially as set forth.

2. The combination with the window-frame, of the movable jamb therein supported at its ends on guide pins, the beveled bearings on the inner face of the frame, the gravity wedge carrying the spring arms and interposed between said bearings and movable jamb, the knob stem attached to said wedge and projecting through an inclined slot in the casing, substantially as specified.

3. In a window-frame, the combination of the movable jambs B, C, forming a part thereof, and supported on guide pins *e, e*, the bearings *c*, the wedge E engaging said bearings and the frame A, the stem *h* connecting said wedge through the slot *i* of the case F, the bearings *n* on the frame A'; the wedge G engaging said bearings and carrying the spring-arms *s* that engage the jamb C, the stem *v* attached to the wedge G and extending through the slot *u* of the case H, substantially as and for the purposes specified.

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

WILLIAM YOUNG.

Witnesses:

E. A. RETAN,
H. C. RETAN.