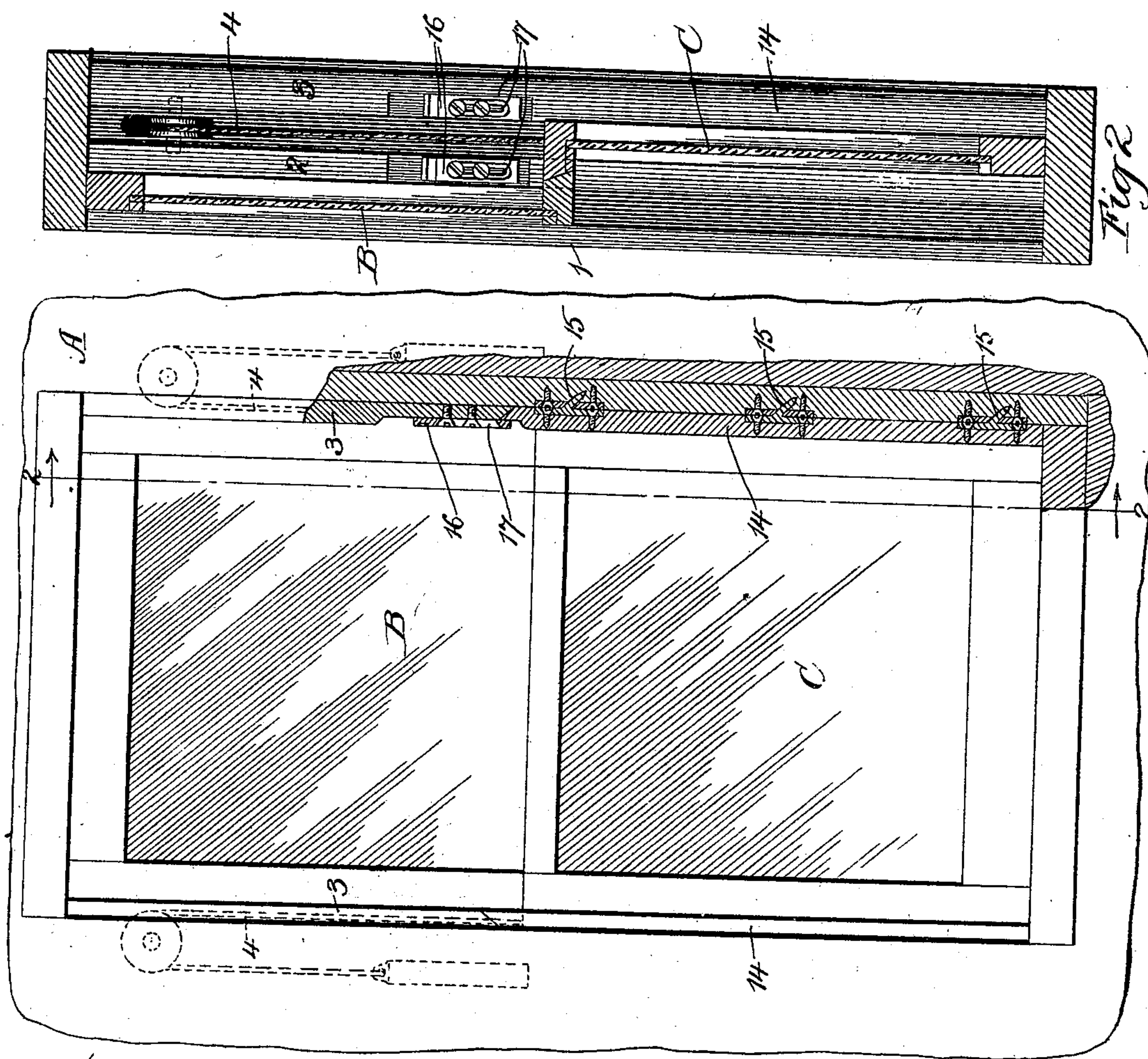


(No Model.)

H. KUERSTEN.
WINDOW FRAME.

No. 506,240

Patented Oct. 10, 1893.



Witnesses:
Wm. M. Rhine
Wm. F. Hummer

Fig 1

Inventor:
Hugo Kuerten
By J. J. Kennedy attys.

UNITED STATES PATENT OFFICE.

HUGO KUERSTEN, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO
HERMAN MICHEL, OF SAME PLACE.

WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 506,240, dated October 10, 1893.

Application filed January 3, 1893. Serial No. 457,075. (No model.)

To all whom it may concern:

Be it known that I, HUGO KUERSTEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Window-Frames; 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.

This invention relates to a novel construction in window-frames, the object being to provide certain improvements in window-frames whereby the window sash can be speedily and easily removed and as readily replaced.

The invention consist in the features of construction and combinations of parts herein-after fully described and specifically claimed.

In the accompanying drawings illustrating my invention,—Figure 1 is a front elevation of a window-frame and window sash constructed in accordance with my invention and partly broken away to show the interior construction. Fig. 2 is a vertical cross section of the same on the line 2—2 of Fig. 1.

Referring now to said drawings, A indicates as a whole the sash frame, and B and C the upper and lower sashes of a window located to slide in said sash frame, and guided by side strips 1, 2 and 3 upon the sash frame. The guide strip 1 is on the outside of the sash frame, while the guide strip 3 is on the inside and the guide strip 2 is located between said other two guide strips. These guide strips are located a sufficient distance apart to permit the sashes to slide between the same in an obvious manner.

In the drawings I have illustrated sashes that are supported by counterpoised weights in the box of the sash frame and are connected in the usual manner by cords or strands 4 with the sashes, although it will be understood that the construction of the sash frame, whereby the removal thereof is possible, can be applied to sashes otherwise supported or unsupported.

The construction by which it is capable to remove the sashes from the frames consists in making a section of the guide strips which confine the sashes removable, such section being a little larger than the sash, in an obvious

manner. In said drawings the strips on both sides of the sash frame have removable sections, although it will be understood that for the purpose of removing the sash it is found sufficient to remove a section of the strip on one side only of the sash. As shown in said drawings the lower portion of the guide strips is removable, said guide strips 2 and 3 being divided a little above the upper edge of the sash when the latter is at the lower limit of its movement, the joint between the ends of the guide strips being inclined, as clearly shown in Fig. 1, the inclination of the upper end of the removable section 14 being downward from the exposed or outer side thereof. The inner face is provided with a plurality of pins or projections 15 that are inclined downwardly at about the angle of the upper end of the removable section, and in the face of the sash frame are a plurality of openings to receive these inclined pins 15, as shown in Fig. 1. Secured to the stationary portion of the guide strip is a sliding latch or plate 16 having a limited extent of movement by reason of the slots 17 through which pins or screws pass and enter the strip. When the plate 17 is at the lower limit of its movement its lower end portion overlaps the upper end of the removable section 14 and thereby serves to hold said removable section rigidly in position in an obvious manner. When it is desired to remove the sash from the frame the plate or latch 17 is first moved upwardly to release the upper end of the movable section 14, whereupon the strip can be removed to expose the sash in an obvious manner. Of course the removable sections on both sides can be removed if desired in this way, and the removable section of the intermediate guide strip 2 can be removed in the same manner.

I claim as my invention—

1. A window frame having a guide strip made in two sections, one of said sections being secured to the frame in a stationary manner, while the other said section is removable and is provided on its inner face with a plurality of angular pins to enter openings in the said frame, and a movable holding plate for securing said removable section of the guide strip in position adapted to overlap the same, substantially as described.

2. A window frame having guide strips
made in two sections and having angular ad-
joining ends, one of said sections being rig-
idly secured to the window frame while the
5 other of said sections is provided on its inner
face with a plurality of angular pins located
to enter openings in the window frame, and
a movable plate 17 secured upon the station-
ary section of the guide strip adjacent to the

removable section and capable of sufficient ro-
movement to cause its end to overlap the
same, substantially as described.

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

HUGO KUERSTEN.

Witnesses:

RUDOLPH W. LOTZ,

HARRY COBB KENNEDY.