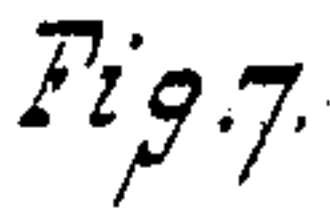


Patented Jan. 19, 1897.



ATTORNEYS



# UNITED STATES PATENT OFFICE.

RICHARD CULLEN, OF NEW YORK, N. Y.

## WINDOW.

SPECIFICATION forming part of Letters Patent No. 575,563, dated January 19, 1897.

Application filed May 13, 1896. Serial No. 591,395. (No model.)

*To all whom it may concern:*

Be it known that I, RICHARD CULLEN, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Windows, of which the following is a specification.

The object of this invention is to provide means for readily enabling a window-sash to be removed from and placed in a frame for such purposes as cleaning or repairing; and the invention resides in the novel features of construction set forth in the following specification and claims, and illustrated in the annexed drawings, in which—

Figure 1 is a face view of a window. Fig. 2 is a section along  $xx$  of Fig. 1. Fig. 3 is a detail view of a catch. Fig. 4 is a view like Fig. 3, with parts in a different position. Fig. 5 is an edge view of Fig. 4. Fig. 6 is a detail view of part of a rail. Fig. 7 is a sectional view of Fig. 6. Fig. 8 shows a modification.

The window-frame is shown with sill 1, sides 2, and top 3. The panel 4 below the sill is of the height, size, and configuration desired or requisite. A guide-rail made in sections 5 and 6 is shown at each frame side 2, and the parting rails are also each made in sections 7 and 8. The sashes 9 and 10 are separated by the rails 7 8.

Each sash has at each side a seat or recess 11 for the sash-cord attachment detachably engaged to hook or fastening 12 on the sash side. The attachment comprises a base 13 with an upper flange 14 and a lower flange 15. When the attachment is seated in the recess 11, the flanges 14 and 15 abut against or slide along the frame side, so that the attachment is kept properly seated in recess 11 and cannot assume an improper position. The upper flange 14 has an eye or perforation through which the sash-cord, chain, or connection 17 is passed and then knotted or fastened so as to be secured to the attachment. The cord or connection 17 has the usual weight 18 and tends to aid the lifting of the sash, as known.

The rail-sections 5, or one rail-section 5, is removable and when removed enables sash 9 to be taken out of the frame. The sash-cord attachments of sash 9 can then be detached from hooks 12 and hooked or engaged to the studs or hooks 19 at the side of the frame, as

indicated in dotted lines at the right of Fig. 1. A parting rail-section 7 being also removed enables the sash 10 when moved to the resulting gap to be likewise taken out of its place. The sash 10 has similar sash-cord attachments, which when removed from said sash can be hooked or engaged to the studs 20. The sash-cords are thus held against slipping into the weight-casings while detached from the sashes. The cord or chain attachments might be engaged to hooks 19 or 20 by their eyes 16, or separate eyes 21 might be provided for engaging the attachments to the hooks 19 and 20.

At the frame-sills are one or more lugs 22, and when a sash is removed it can have an edge placed or rested between a lug 22 and a frame side 2. The other edge of the sash can be supported on a leg or rest 23, sliding in a suitable seat or recess in a sash side or edge and guided by the guides 24. Springs or catches 25 and 26 are arranged to hold the rests 23 out of action, Figs. 1, 2, and 3, or in active or standing position, Figs. 4 and 5. The catch 26 is conveniently hinged or pivoted at 27, and when the leg 23 is sufficiently lowered a spring 28 causes the catch 26 to snap or move to active position. When the catch 26 is swung back into its seat against the pressure of spring 28, the rest 23 is free to slide back out of action. The catch or spring 25 engages a shoulder 29 of rest 23 to hold the latter out of action.

The removable sections 5 and 7 are conveniently secured by screws or fastenings 30, having swinging handles or heads 31, which when swung or folded into the recesses 32 in the rail-sections 5 and 7 will not project beyond or outside the rails, so as not to cause unsightliness and to avoid risk of catching the sashes or other object.

Of course the invention is not confined to the exact construction shown, as modifications can be made which are within the scope of the invention. In place of two independent catches 25 and 26 there is shown in Fig. 8 a spring the portion 25' of which, engaging under the shoulder of leg 23, holds the latter out of action. When the leg 23 is lowered or in action, the spring end or portion 26' snaps or comes over the top end of the leg 23 to hold the latter down in active position.

What I claim as new, and desire to secure by Letters Patent, is—

1. A window comprising a casing and a sash provided with a hook or fastening, combined with a sash cord or connection having an attachment for engaging said hook, said sash having a seat or recess for the attachment and said attachment comprising a base or body portion adapted to engage the hook, and flanges adapted to sit or slide against the window-casing, said attachment being detachably engaged to said hook and said flanges being located at opposite end portions of the attachment so as to steady the attachment on the hook as the sash slides or moves, substantially as described.

2. A removable window - sash combined with a frame having its sill provided with a lug between which and a frame side the sash can be inserted or held, said sash being provided with a seat or recess, a foot or rest adapted to slide in said recess, and a locking spring or catches for the foot substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

RICHARD CULLEN.

Witnesses:

WM. C. HAUFF,  
E. F. KASTENHUBER.