(No Model.)

W. H. CHRIST.

SASH CORD FASTENER.

No. 314,799. Patented Mar. 31, 1885.

Fig. 1.

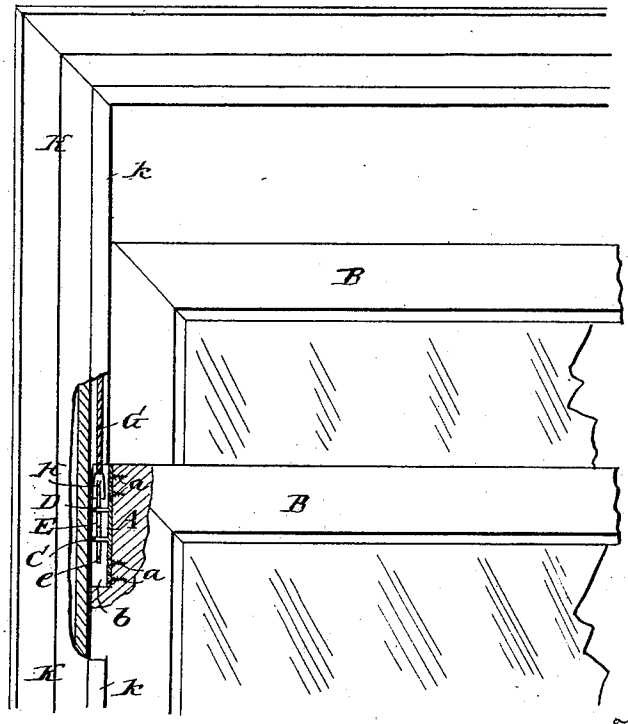


Fig. 2.

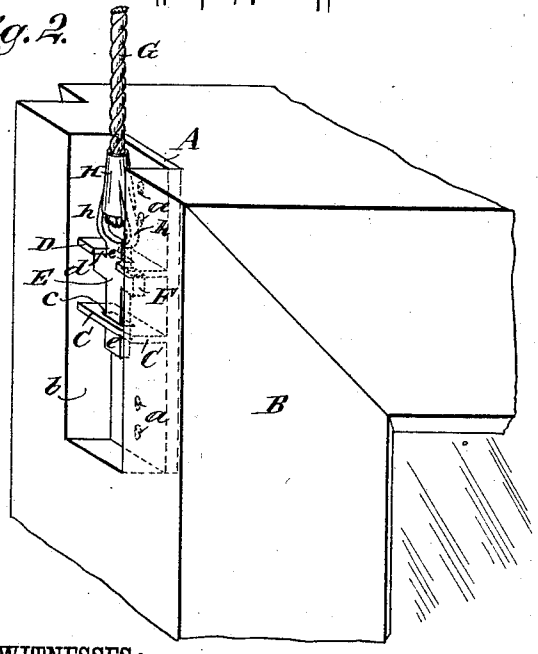
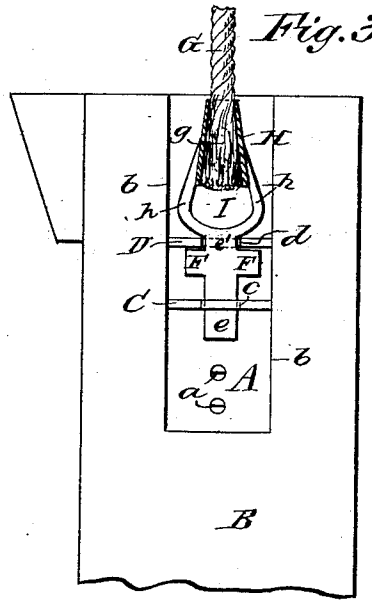


Fig. 3.



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UNITED STATES PATENT OFFICE.

WELLINGTON H. CHRIST, OF PINE GROVE, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND SIMON J. SEYFERT, OF SAME PLACE.

SASH-CORD FASTENER.

SPECIFICATION forming part of Letters Patent No. 314,799, dated March 31, 1885.

Application filed November 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, WELLINGTON H. CHRIST, of Pine Grove, in the county of Schuylkill and State of Pennsylvania, have invented a new and Improved Sash-Cord Fastener, of which the following is a full, clear, and exact description.

The object of my invention is to provide a simple, inexpensive, and efficient sash-cord fastener which will allow the sashes to easily and quickly be removed from the window-frames for reglazing or cleaning them more conveniently and safely.

The invention consists in a sash-cord fastener made with a plate adapted to be fixed to the side bars of the sash and having a recessed and an apertured flange, and a cord-holder having projections on its shank which take below one flange of the plate while the end of the shank enters the aperture of the other flange, said cord-holder having means for attaching the sash-cord to it, preferably a tapering thimble held by opposite arms to the head of the shank of the holder.

The invention consists, also, in particular constructions and combinations of parts of the fastener, all as hereinafter fully described and claimed.

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

Figure 1 is a front elevation of parts of a window frame and sashes, partly broken away and in section, and showing my improved sash-cord fastener as applied to the lower sash. Fig. 2 is a perspective view in larger size of the upper corner of a sash with my cord-fastener applied; and Fig. 3 is an edge view of the sash and face view of the fastener, partly in section.

The letter A indicates a plate which is made fast to the edge of the upper end of the side bars, B, of the sash and within a recess, *b*, of the sash-bar by screws *a* or otherwise.

On the plate A are formed two projecting flanges, C D, the lower one, C, having an aperture, *c*, into which the lower end, *e*, of the shank of the cord-holder E passes, and the upper flange, D, has an edge or open slot or recess, *d*, into which the upper portion, *e'*, of the shank of the holder E enters. The cord-holder has opposite side arms or projections, F F, which engage the lower face of the flange D, for supporting the sash by the sash-weights, (not shown,) which are connected to the inner ends of the sash-cords G, which are attached at their outer ends to the cord-holders, preferably by being passed into the upwardly-tapering hollow thimbles or heads H of the holders, which connect by arms *h h* with the upper ends, *e'*, of the shanks of the holders, so that a space, as at I, is provided between the thimbles H and shanks of the holders, to allow the ends *g* of the cords to be drawn downward from the thimbles at any time for taking up the slack of the cords due to the stretching action of the weights, the extreme ends of the cords G being knotted or frayed and tied with twine, or otherwise enlarged, or provided with stops, so that they will not be pulled upward through the thimbles by the sash-weights. It will be seen that, when the stop-bead *k* of the window-frame K is removed from in front of the sash, the sash may be swung outward and the cord-holders E may readily be moved out from the plates A until their projections F will stand outside of or above the upper flanges, D, of the plates, when the cord-holders may be removed from said plates by lifting their lower ends, *e*, from the slots *c* of flanges C, so that the sashes may quickly be removed from the window-frames at any time for putting in new glass or for cleaning the sash more conveniently and safely than can be done when the sashes are left in the window-frames. When the sashes are removed, the cord-holders E, being too large to run through the the sash-pulleys, form stops to the cords to prevent them from passing over the pulleys into the weight-boxes of the window-frames, so that the holders are always at hand with the attached cords G, and may be connected with the sash again by inserting their ends *e* into the slots *c*, and passing the shank portions *e'* into the slots *d*, so that the projections F F stand below the flanges D, as hereinbefore explained.

The plates A and cord-holders E at each side of the sash may be connected and disconnected by any ordinary person without the aid of a mechanic and without using tools of

any kind, and the connection of the sash-cords with the sashes when the cord-holders are set in the plates is in every way secure.

By using my improved fasteners much less of the side bars of the sashes need be cut away than is required with the common system of securing the cords to the sashes, while the sashes may be unhung and rehung in a fraction of the time necessary with other connections of the cords.

Having thus described my invention, I claim as new and desire to secure by letters Patent—

1. The combination, in a sash-cord fastener and with the sash B and cord G, of the plate A, secured to the sash and provided with the flange C, apertured at *c*, and the flange D, recessed at *d*, and the cord-holder E, having projections F, and entering the recesses *c d*, and means for attaching the cord to the holder, substantially as herein set forth.

2. The combination, with the sash B and cord G, of the plate A, having flanges C D, slotted and recessed at *c d*, respectively, and the cord-holder E, having projections F, and provided with a thimble, H, to receive the end of the cord, substantially as herein set forth.

3. As an improved article of manufacture, the sash-cord-fastener plate A, made with a flange, C, having an aperture, *c*, and a flange, D, having a recess, *d*, substantially as herein set forth.

4. As an improved article of manufacture, the sash-cord holder E, made with projections F from its shank, and with a thimble or head, H, connected to the shank by arms *h h*, providing a space at I between the thimble and shank, substantially as herein set forth.

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Witnesses:
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