

(No Model.)

W. HUTCHINS.
SASH CORD FASTENER.

No. 478,234.

Patented July 5, 1892.

Fig. 1.

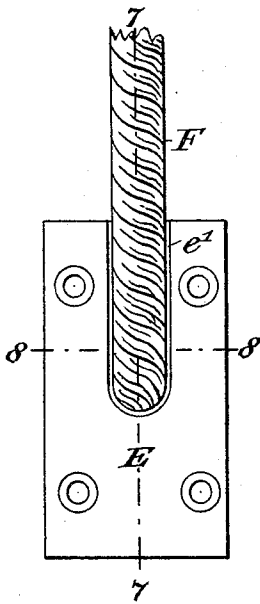


Fig. 2.

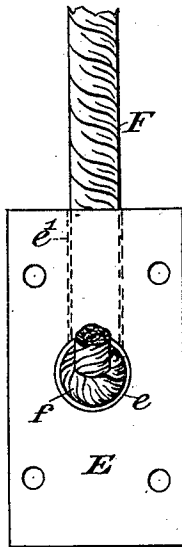


Fig. 3.

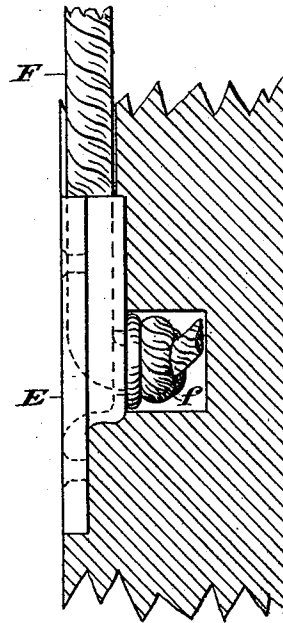


Fig. 4.

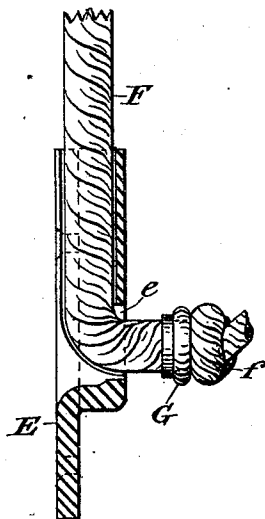
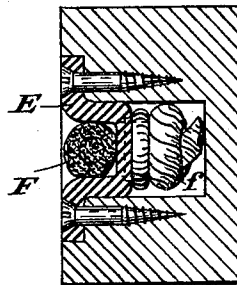


Fig. 5.



WITNESSES:

E. B. Bolton

W. A. Walsh

INVENTOR

BY *William Hutchins*
Richard R.
ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM HUTCHINS, OF MELBOURNE, VICTORIA.

SASH-CORD FASTENER.

SPECIFICATION forming part of Letters Patent No. 478,234, dated July 5, 1892.

Application filed August 17, 1891. Serial No. 402,951. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HUTCHINS, storeman, a subject of the Queen of Great Britain, residing at No. 257 Rathdowne Street, Carlton, near Melbourne, in the British Colony of Victoria, have invented certain new and useful Improvements Relating to Window-Sashes, of which the following is a specification.

10 My invention relates to improvements in window-sashes; and it consists in certain parts and combinations thereof, hereinafter more fully described and claimed.

15 Instead of attaching the weight-cords to the sashes by brads, as at present, I pass the end of each of said cords through a hole in a plate or flush-center and a thimble or ring let into the respective side rails of each sash, and when a knot is formed on the end of said 20 cord it is retained in connection with the sash, while at the same time it allows the latter to be turned over when removed from its frame, the ends of said cords in said thimble or ring being used as centers, the result being that the sash can be handled inside the 25 room and can be reversed or turned over, so that its two sides can be conveniently cleaned.

Referring to the accompanying drawings, Figure 1 is a front elevation, and Fig. 2 a rear 30 elevation, of one of the plates or flush-centers, through a hole in which the ends of the sash-cords are passed and made secure, said figures illustrating said cords attached to said plates. Fig. 3 is a side elevation of one of 35 said plates or flush-centers, showing same fitted within one of the side bars of a window-sash. Fig. 4 is a vertical transverse section on line 7 7, Fig. 1, while Fig. 5 is a horizontal section on line 8 8, Fig. 1.

40 The same letters of reference are used to indicate the same parts in all the figures.

E represents one of the plates or flush-centers, which is constructed as illustrated in Figs. 1 to 5—that is, with a hole *e*, through

which the lower end of a sash-cord F can be 45 passed and be secured by a knot *f*, as shown. A groove or channel *e'* is formed in the plate or flush-center E from the hole *e* to the upper end of said plate, in which the sash-cord F fits snugly when the sash is in its working 50 position.

In order to minimize the friction between the sash-cord F and the plate or flush-center E, I place a small metal ring or collar G, formed with a shoulder, as shown, around the end of 55 said cord between the knot *f* thereon and said plate E, said metal ring being constructed in such a manner and of such a size as to fit within the hole *e*, through which, as above mentioned, said cord F is passed. 60

It will be readily understood by all persons who have had much experience with ordinary window-sashes that the herein-described means for connecting the lines to such sashes has many advantages over the ordinary ar- 65 rangement, it being obvious that there will not be the amount of chafing that is incidental to the ordinary arrangement, and, moreover, there is not so much likelihood of careless workmen wasting the cord. 70

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. The combination, with the sash and cord, 75 of the plate E, having hole and groove for the cord, and the ring on said cord, substantially as and for the purposes set forth.

2. The combination, with the sash and cord, 80 of the plate E, having hole and groove for the cord, and the ring on said cord and having a shoulder, substantially as and for the purpose set forth.

WILLIAM HUTCHINS.

Witnesses:

WALTER SMYTHE BAYSTON,
WALTER CHARLES HART.