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SASH-CORD FASTENER.

SPECIFICATION forming part of Letters Patent No. 354,620, dated December 21, 1886.

Application filed September 10, 1886. Serial No. 213,251. (No model.)

To all whom it may concern:

Be it known that I, OSCAR BEEBE, a citizen of the United States, residing at Hornellsville, in the county of Steuben and State of New York, have invented a new and useful Improvement in Sash-Cord Fasteners, of which the following is a specification.

My invention relates to improvements in sash-cord fasteners; and it consists of the peculiar combination and novel construction and arrangement of the various parts for service, substantially as hereinafter fully described, and particularly pointed out in the claim.

My invention is especially designed as an improvement upon the sash-cord fastener patented to me on the 24th day of August, 1886, and numbered 348,101; and the object of my invention is, first, to improve the sash-cord fastener shown in my prior patent, so that it can be connected with the sash much more easily and rapidly and require less fitting and working on the sash, and which shall also be held in place in the sash by the weight of the latter and contact with the jamb or casing of the window-frame; and, secondly, to provide the fastener with means whereby the cord will be more securely and firmly held and clamped, and cannot possibly be disconnected therefrom, all as more fully described presently.

In the accompanying drawings, which illustrate a sash-cord fastener embodying my invention, Figure 1 is a side elevation, partly in section, to show the relative arrangement of parts. Fig. 2 is an edge view of the sash with the window-casing broken away, and Fig. 3 is a like view showing another method of securing the fastener to the sash. Fig. 4 is a detached perspective view of the fastener with the sash-cord fitted therein, and Fig. 5 is a vertical longitudinal central sectional view through the fastener. Fig. 6 is a detached perspective view of a modified form of my invention. Fig. 7 is a horizontal sectional view on the line *y y* of Fig. 1, looking in the direction indicated by the arrow *x*.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates my improved sash-cord fastener, which is cast or formed in a single piece of metal for strength, simplicity, and cheapness.

The improved fastener consists of a flat

shank or plate, *a*, the parallel lips *b b'*, which are arranged on opposite side edges of the plate or shank and in line with each other, the spur or tooth *c*, arranged at an angle slightly less than a right angle to the shank and the lips thereof, and at one end of the said shank, and the transverse integral ribs or teeth *d*, arranged on the surface of the shank between the lips *b b'*, as will be readily understood.

The fastener is made of malleable or soft metal of sufficient toughness to resist the friction and wear caused by the fastener coming in contact with the jamb during the vertical movements of the sash, the said outer face of the fastener being preferably made slightly oval in form, so that only the middle portion thereof will come in contact with the jamb, to prevent the device from defacing the jamb to any appreciable extent. The lips *b b'* of the fastener are adapted to be bent over upon the sash-cord, to bind upon the latter and cause the teeth or ribs *d* of the shank to enter the said cord and bind firmly thereon, and thereby connect or secure the sash-cord more firmly to the fastener.

B designates a sash, and C the jamb of the window-casing, which incloses the sash, against which the sides of the sash bear, so that it is guided and retained in place during the vertical movements thereof.

The sash B is provided in its edge with a vertical central groove, E, which is arranged longitudinally thereof, and the sash is further provided in its lower horizontal edge with a short channel or groove, E', which opens into the lower extremity of the vertical channel or groove E.

F designates the cash-cord, which is arranged within the vertical channel E of the sash and connected at its lower end to the fastener A, and the opposite end of the sash-cord is connected to the weights or other devices which counterbalance the sash, as is usual. In lieu, however, of having the lips *b b'* arranged in line with the body or shank of the fastener, they may project outwardly therefrom at right angles, as shown in Fig. 6 of the drawings.

This being the construction of my invention, the operation thereof is as follows: The sash-cord is first fitted in the fastener between the

lips *b b'* thereof, and the lips are then bent over upon the cord and pressed firmly down thereon, thus forcing the ribs or teeth *d* to enter the cord and secure the latter more firmly to the fastener. The body or shank of the fastener, together with the lips and the cord attached thereto, are now fitted in the lower part of the vertical channel or groove of the sash, while the spur or tooth *c* is fitted in the continuation *E'* of the vertical channel formed in the lower side of the sash. The body of the fastener is forced into the vertical channel of the sash and the outer exposed surface of the shank or body lies flush with the sides of the sash, so that the fastener will come in contact with and impinge upon the jamb of the window-casing. The fastener is very securely held in place against movement by the weight of the sash upon the spur or tooth *e* thereof fitting beneath the lower edge of the sash, and by the outer exposed surface of the body thereof coming in contact with and impinging upon the jamb of the window-casing.

In lieu of fitting the fastener at the lowermost corner of the sash, it can be secured thereto at any point, as is sometimes desirable or necessary, by first fitting the shank or body of the fastener in the vertical groove or channel and inserting the tooth or spur *c* into a suitable opening or recess formed in the side of the sash, as shown in Fig. 3 of the drawings; and in this case the fastener lies flush with the side edges of the sash, so that it is in contact with the jamb of the window-casing, and the spur or tooth sustains the weight of the sash.

My improved fastener can thus be more rapidly and easily secured or connected to the sash with greater facility and less time and trouble than with the device shown in my prior patent hereinbefore referred to, and it is more firmly and securely connected to the sash-cord by reason of the lips *b b'* thereof forcing the cord into contact with the biting-edges of the ribs or teeth *d*.

The device can be manufactured and sold for a trifling sum and readily applied by an unskilled person. It is also very simple and durable in construction, can be applied to any part of the sash, and is effective and reliable in operation.

I am aware that it is not broadly new to provide a sash-cord fastener with a longitudinal channel and a series of transverse ribs located in the channel; but my invention differs from this from the fact that I provide the shank of my improved fastener with lips on its opposite side edges and with transverse ribs or teeth arranged between each pair of lips. The sash-cord is fitted between the lips, and the latter are then bent over upon the cord and forced tightly thereon, thus causing the ribs or teeth to bite upon the cord, and thereby more firmly and securely retain the cord in the fastener.

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

As an improved article of manufacture, a sash-cord fastener formed of a single piece of metal, and comprising a body or shank having a smooth outer face, a prong arranged at an angle to the shank at one end thereof to connect the fastener to the sash, the lips arranged at an angle to the body or shank on opposite sides thereof and adapted to be bent over toward each other and upon the cord, and the transverse ribs arranged between the lips and on the inner side of the shank or body, whereby when the lips are bent upon the sash-cord the ribs will be forced into the cord to securely connect the same to the fastener, substantially as described, for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

OSCAR BEEBE.

Witnesses:

SAMUEL MITCHELL,
GEORGE A. BUCK.