

S. N. Chapin.
Sash Cord Fastener.
No. 95,420. Patented Oct. 5, 1869.

Fig. 4.

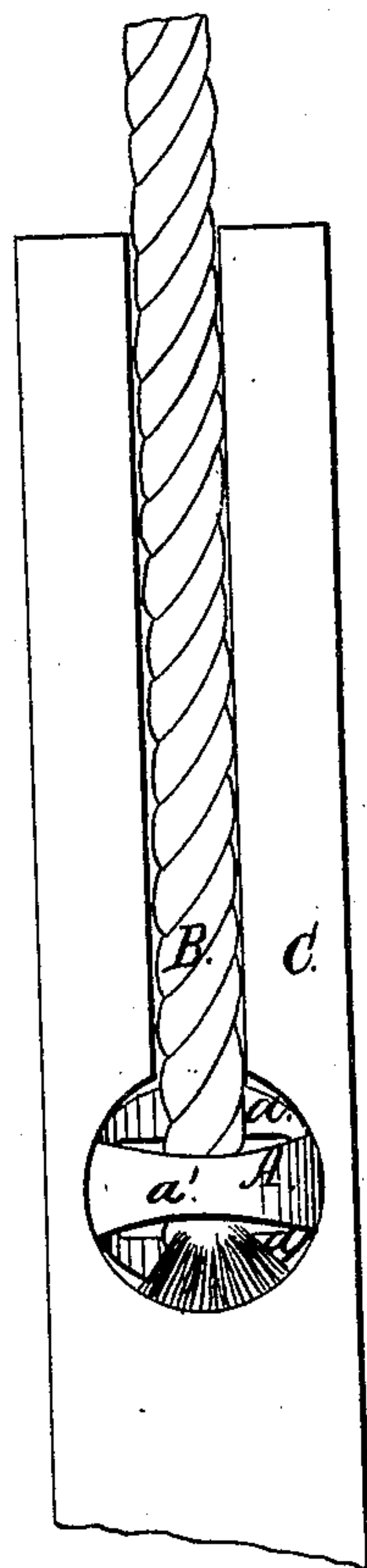


Fig. 3.

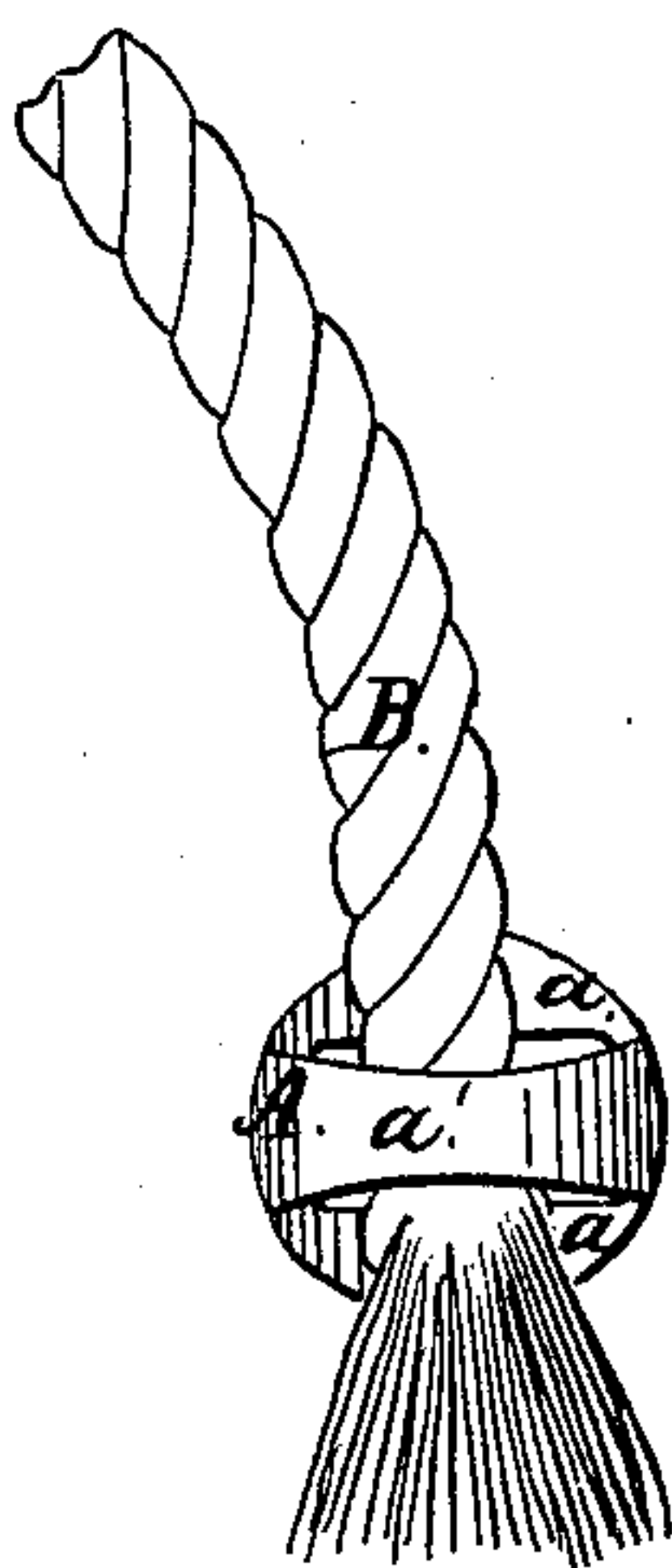


Fig. 2.

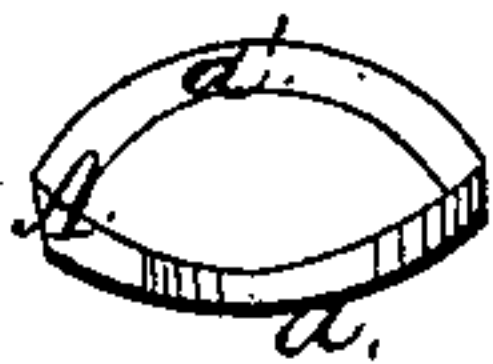
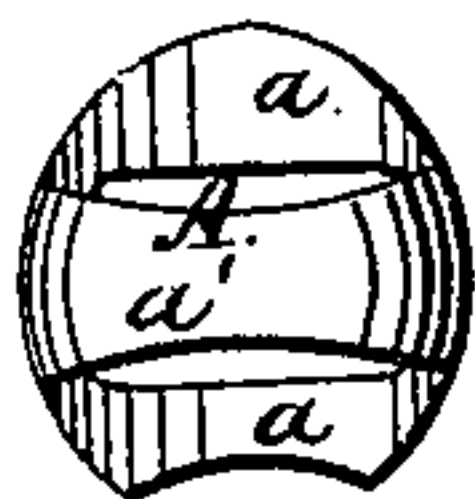


Fig. 1.



Witnesses.

W. E. Mitchell
James Shepard

Inventor.

S. N. Chapin

United States Patent Office.

S. N. CHAPIN, OF NEW BRITAIN, CONNECTICUT.

Letters Patent No. 95,426, dated October 5, 1869.

IMPROVED ATTACHMENT FOR WINDOW-SASH CORDS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, S. N. CHAPIN, of New Britain, in the county of Hartford, and State of Connecticut, have invented a new and useful Improvement in Attaching Cords to Window-Sash; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making part of this specification, in which—

Figure 1 is a front elevation of my invention.

Figure 2 is a side elevation of the same.

Figure 3 is a front elevation of the same, with a cord attached.

Figure 4 is a front elevation of the same, in its proper position in the window-sash.

Similar letters of reference indicate like parts.

My invention consists in the use or employment of a metallic button, composed of three transverse bars, two of which are curved in one direction, and one of which is curved in the opposite direction, sufficiently to form an opening between the same, through which the sash-cord is passed and the bars flattened, thus securing the cord in the button, without knotting the cord.

A designates the button, which will generally be made of cast malleable iron, but may be made of cast brass, or swaged from sheet-metal.

a a designate the concave bars, and *a'* the convex bar.

These bars are arranged so that each bar has opposite space, in order that the button A can be easily cast or swaged.

The button is not formed in a true circle, as the bars expand or lengthen in fastening the cord.

If desired, a small portion of the lower side of the button can be removed, to accommodate the loose end of the sash-cord B.

The end of cord B is passed over bars *a a* and under bar *a'*, when the bars are flattened by a blow or pressure upon them, which secures the button A firmly to the cord B, as shown in fig. 3.

The sash C is grooved in the usual manner, and a round hole is made at the end of the groove.

The width of the button A should be such that when flattened, it will be equal or nearly equal to the diameter of the hole in the sash C.

To secure the cord B to the sash C, it will be merely necessary to turn the loose end of the cord under the button A, and slip the same into its place in the sash C, when the connection is complete, as shown in fig. 4.

By my invention the use of screws to connect the cord to the sash, and the usual inconvenience of knotting the cord, are entirely dispensed with.

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

The button A of the bars *a a* and *a'*, of malleable metal, arranged so that the bar *a'* may be forced down upon the cord, to retain it, without the use of a knot, substantially as and for the purpose set forth.

S. N. CHAPIN.

Witnesses:

C. E. MITCHELL,
JAMES SHEPARD.