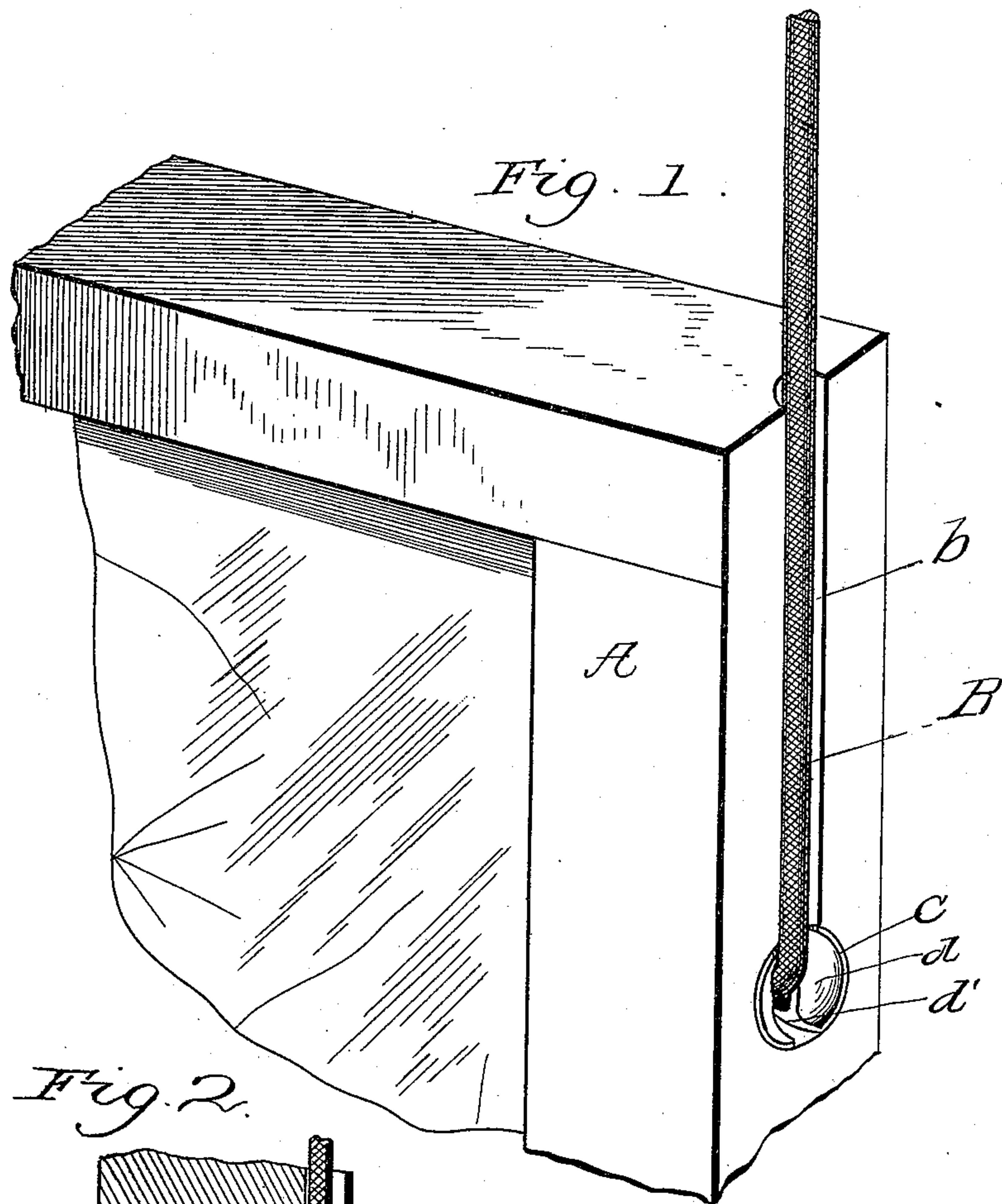


(No Model.)

G. W. GRAVES.
SASH CORD FASTENER.

No. 322,707.

Patented July 21, 1885.



UNITED STATES PATENT OFFICE.

GEORGE W. GRAVES, OF NORWALK, OHIO.

SASH-CORD FASTENER.

SPECIFICATION forming part of Letters Patent No. 322,707, dated July 21, 1885.

Application filed December 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. GRAVES, of Norwalk, in the county of Huron and State of Ohio, have invented certain new and useful Improvements in Sash-Cord and other Fasteners; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to that class of devices known as "sash-cord" and other fasteners, and has for its object to supply the same of a construction whereby the ends of sash-sustaining cords or other flexible material may be rapidly and effectually secured, and the labor attendant thereon very materially lessened.

The invention consists, substantially, in the form of construction of device, as will hereinafter be distinctly described, and pointed out in the claim.

Referring to the annexed sheet of drawings, Figure 1 represents in perspective a portion of a window-sash illustrating the application of my invention thereto. Fig. 2 represents a sectional view in which a more general understanding of the construction is had. Figs. 3 and 4 are enlarged detail views in perspective, to more clearly show the form of construction.

The device resembles a cylindrical shell or sleeve having a longitudinal rib or segment removed, and at the opposite point of its diameter a similar removal of material, both beginning at one edge and extending only a short distance of its length, and is formed at one end with a partition which is slotted out from its edge at the point where the division exists between the two longitudinal edges of the device to about its center, said rib or partition forming the means by which the knotted end of the sash-cord or other rope or chain is held or maintained, reference being had to the parts by the letters marked thereon.

A represents an ordinary window-sash having in its side edges a cylindrical opening, *a*, in which the fastener is held. Extending from the upper edge of this opening in the side of the sash to the top thereof is a groove or channel, *b*, into which the cord B is re-

ceived and rests, said construction being of ordinary form.

Into the opening *a* is placed the device C, constructed in accordance with my invention. This device is formed with a longitudinal opening *c*, for the passage therethrough, lengthwise, of the chain or cord B, and opposite to this opening, in one edge of the device, a similar opening, *c'*, exists, which extends but a short distance of its length; but both may be alike, and the longitudinal slot dispensed with.

At one end of the shell a partition or head, *d*, is formed, the same being slotted out to about its center, as at *d'*, the latter opening and *c* coinciding, but at right angles to each other.

The opening *c'* is formed to permit a conformity of one edge of the device to the groove *b*, extending from the opening *a* in the sash-frame, as shown.

It will be seen that the device is cast in one piece, and that the partition *d* serves to retain the knotted end of the cord, rope, or chain, as seen in Fig. 2.

The shell is placed in the opening *a* at the side of the sash-frame, with the opening *c'* uppermost, the cord running up therefrom in the groove, and bearing at its other end the weight, as is usual. In securing the cord its end is first knotted and it is then slipped through the opening *d'* and pulled outwardly to bring the knot tightly against the inner side of the partition *d*, as shown. From the foregoing description the novelty of the device will be apparent.

The partition *d* is slightly concave to allow for the increased thickness of cord at the point where it bends to take an upward direction.

Having thus described my invention, what I claim is—

As a new article of manufacture, a hollow cylindrical cord-fastener constructed with a slot, *d'*, extending longitudinally through one side of it, and an opening in the side opposite said slot and a partition between the slot and said opening, as set forth.

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

GEORGE W. GRAVES.

Witnesses:

A. B. GRIFFIN,
WM. B. BENHAM.