No. 707,241. Patented Aug. 19, 1902.

F. H. KNAPP.

CORD HOLDING DEVICE.

(Application filed Dec. 4, 1901.)

(No Model.)

Fig. 1.

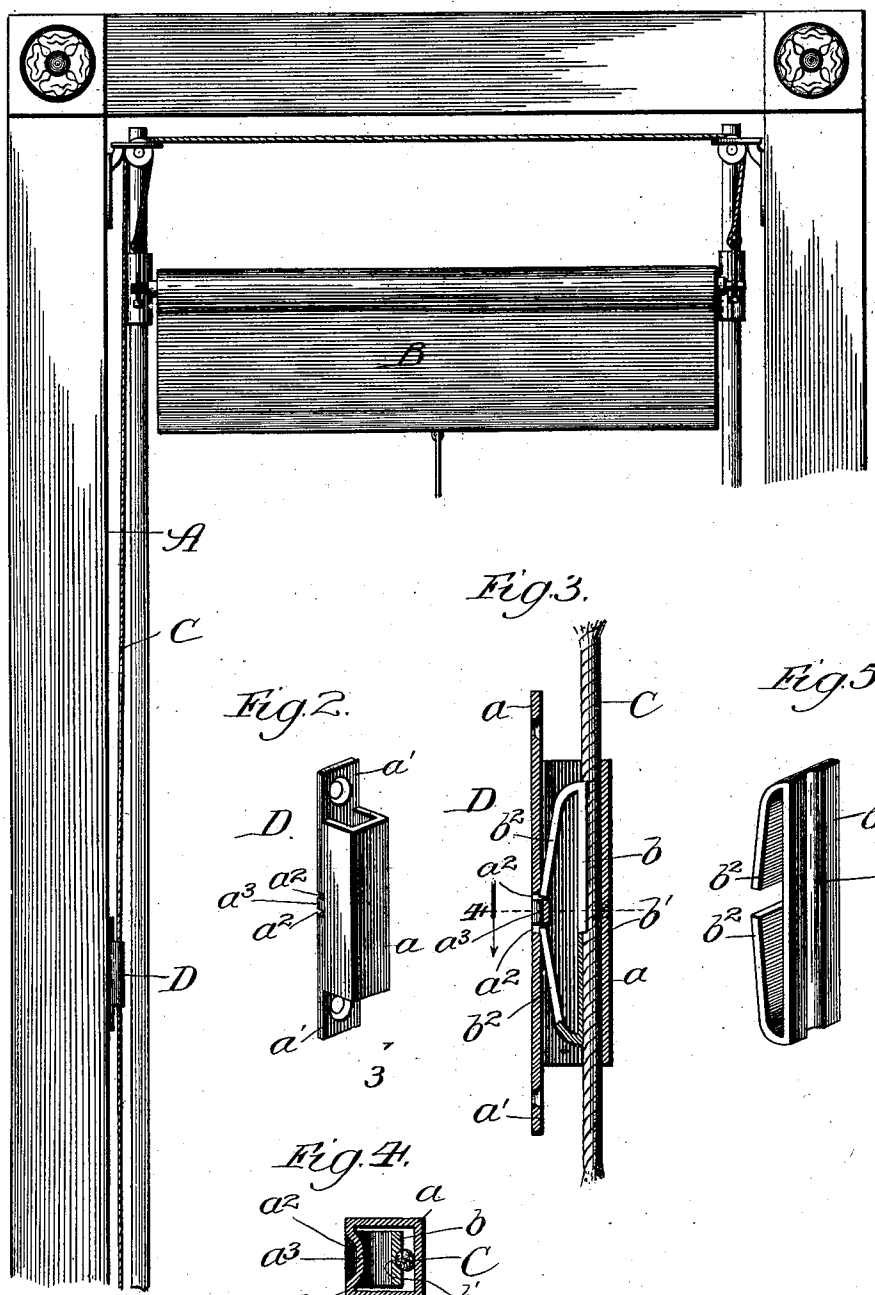


Fig. 2.

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Fig. 3.

Fig. 5.

Fig. 4.

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UNITED STATES PATENT OFFICE.

FRED H. KNAPP, OF CHICAGO, ILLINOIS.

CORD-HOLDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 707,241, dated August 19, 1902.

Application filed December 4, 1901. Serial No. 84,648. (No model.)

To all whom it may concern:

Be it known that I, FRED H. KNAPP, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Cord-Holding Device, of which the following is a specification.

My invention relates particularly to cord-holding devices for use in connection with adjustable shades for windows; and my primary object is to provide a device of this character which is of simple construction and capable of securely holding the cord which supports the shade-roller, while permitting the cord to be drawn readily through it in the adjustment of the shade.

My invention is illustrated in its preferred form in the accompanying drawings, in which—

Figure 1 represents a portion of a window and an adjustable shade supported by a cord held by my improved cord-holding device; Fig. 2, a perspective view of the cord-holding device detached; Fig. 3, a vertical sectional view taken as indicated at line 3 of Fig. 2; Fig. 4, a transverse section taken as indicated at line 4 of Fig. 3, and Fig. 5 a perspective view of the cord-engaging spring employed.

A represents a window-frame; B, an adjustable shade; C, a cord for supporting the shade B, and D my improved cord-holding device.

The device D comprises a hollow member, casing, or tube a of rectangular cross-section, one wall of said casing having projecting ends a', serving as a means of attachment to the window-casing, and a spring b, confined within said tube and provided with a cord-receiving channel b'. One wall of the tube a is cut on transverse lines a^2, and the intermediate portion a^3 is bent inwardly to afford a retainer for the spring. As shown, the spring has a back portion whereat the groove b' is provided and inturned convergent ends b^2, which serve to engage the retainer a^3. As will be understood, there is sufficient space between the ends b^2 to receive the retainer. The manner of assembling the parts is to pass the cord C through the groove b' before inserting the spring into the tube. When this is done, the spring may be forced into position under slight tension until the ends b^2 embrace the retainer a^3. Thereafter the spring cannot be removed until the cord is drawn out, whereupon the spring will drop out of its casing. In use when it is desired to elevate the shade-roller the portion of the cord C which is beneath the device D is drawn upon, and the friction upon the cord caused by the spring and the opposed wall of the casing is sufficient to hold the cord in any desired position. When it is desired to lower the shade-roller, the cord is grasped above the device D and pulled through a sufficient distance to enable the shade-roller to drop to the desired position.

The device is of exceedingly simple construction, and practical use for a considerable time has proven it to be perfectly adapted to the purpose for which it was devised.

Changes in details of construction within the spirit of my invention may be made. Hence no undue limitation is to be understood from the foregoing detailed description.

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

1. In combination, a hollow member provided interiorly at one side with a spring-retainer, an unattached spring having ends turned toward the wall supplied with said retainer, and a cord confined between said spring and the opposed wall of said first-named member.

2. In combination, a tube of rectangular cross-section provided with suitable attaching means and having one wall cut transversely on two lines and the intermediate portion bent inwardly to afford a retainer, and a spring having its two ends bent to engage said retainer and its intermediate portion serving to engage a cord, substantially as described.

3. In combination, a hollow member provided interiorly at one side with a spring-retainer, an unattached spring having convergent ends turned toward the wall supplied with said retainer and a back supplied with a longitudinal groove, and a cord confined in said groove between said spring and the opposed wall of said first-named member, substantially as and for the purpose set forth.

FRED H. KNAPP.

In presence of—
ALBERT D. BACCI,
WM. B. DAVIES.