

J. W. JOHNSON.
CURTAIN-FIXTURE.

No. 174,535.

Patented March 7, 1876.

FIG. 1.

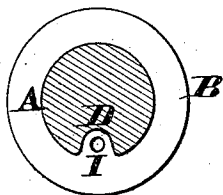
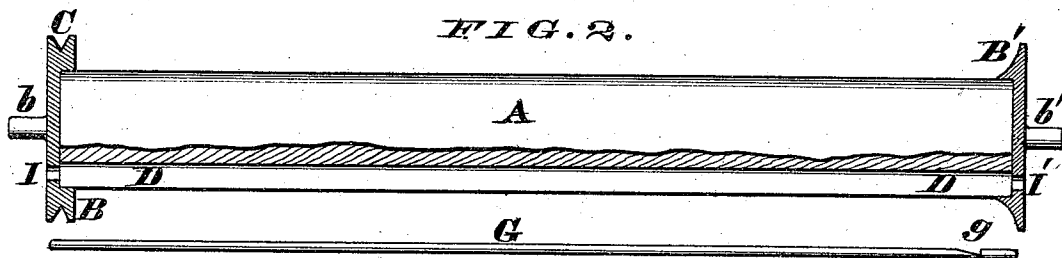
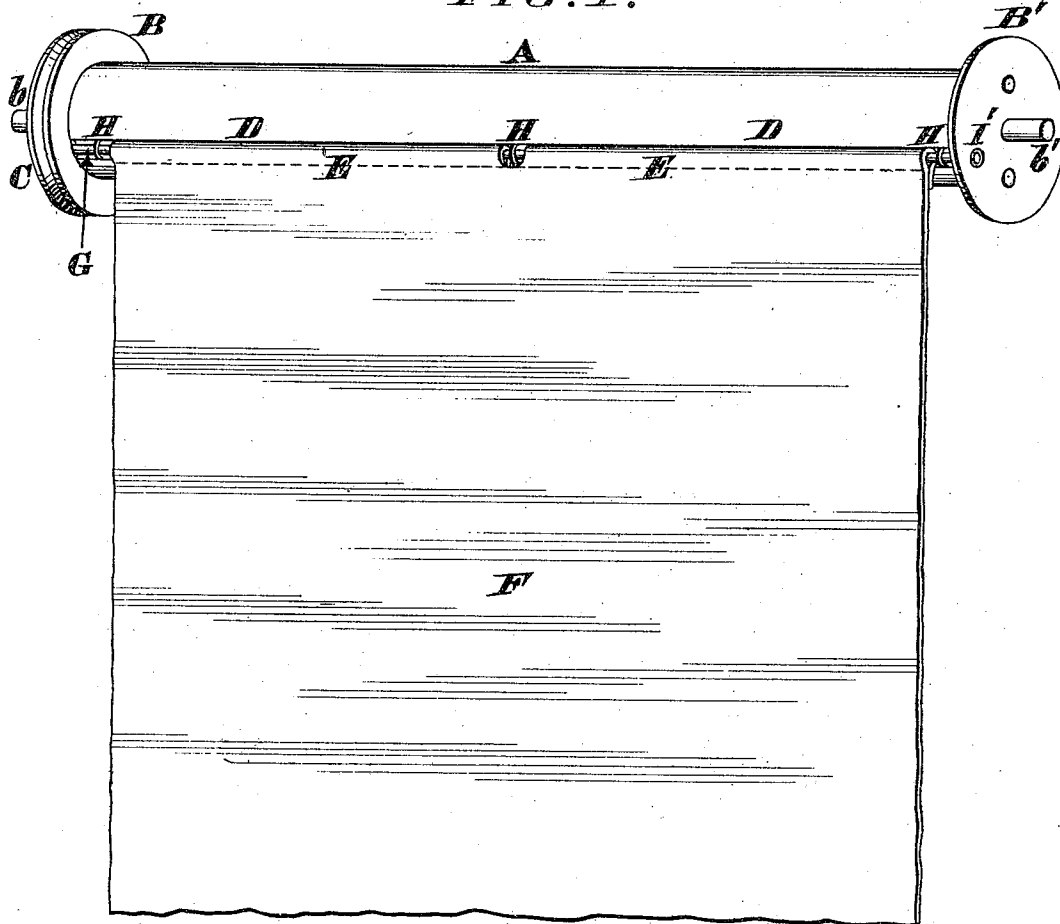
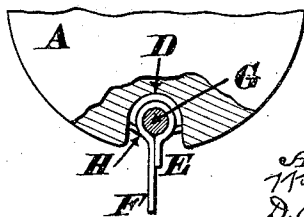


FIG. 4.



*John Wm Johnson, per
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Wm. P. O. 42
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UNITED STATES PATENT OFFICE.

JOHN WILLIAM JOHNSON, OF CINCINNATI, OHIO.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **174,535**, dated March 7, 1876; application filed January 6, 1876.

To all whom it may concern:

Be it known that I, JOHN WM. JOHNSON, a resident of the city of Cincinnati and State of Ohio, have invented certain new and useful Improvements in Window-Shade Attachments, of which the following is a specification:

This invention relates to that class of flexible shades or curtains which are capable of being wound around a drum or roller; and my improvement comprises a novel arrangement of devices whereby the curtain can be readily attached to, or detached from, said roller in a few moments, and without marring or otherwise injuring any of the attachments or curtain.

To accomplish this result, I provide the roller with a shallow and narrow longitudinal groove or channel, into which the upper end of the curtain is secured by a small rod or wire that is inserted in a hem at the aforesaid upper end of the shade. The wire is then secured in the groove with a few tacks or staples, or other convenient retaining devices, as hereinafter more fully explained.

One or both of the caps or heads of the roller having an aperture in line with the groove in the roller, the retaining rod may be inserted and withdrawn with ease.

In the accompanying drawing, forming part of this specification, Figure 1 is a perspective view of the upper portion of a shade or curtain secured to a roller with my improved attachments. Fig. 2 is a longitudinal section through the roller with the removable rod or wire detached therefrom. Fig. 3 is a transverse section through the roller, the rod and shade being removed; and Fig. 4 is an enlarged transverse section through the grooved portion of the roller, showing the curtain secured in position.

A represents an ordinary wooden roller, such as is generally employed for winding window shades or curtains upon. Secured to the ends of this roller are the usual circular heads or flanges B B', provided with journals b b', wherewith the roller is supported and allowed to rotate in the brackets that are attached to the window-frame.

The disk B is provided with a circumferential groove, C, around which the operating cord is rove.

Extending longitudinally of the roller is a straight groove, D, which is comparatively

shallow and narrow, and of any suitable shape in its transverse section. This groove is just capacious enough to receive the hemmed end E of a flexible curtain or shade, F, which latter may be of any suitable material. Adapted to traverse the hem E, so as to cause the latter to fit snugly within the groove or channel D, is a rod or bar, G, which may be composed of metal, or it may be a small wooden stick, such as a piece of cane or rattan. This stick, rod, or wire, after being inserted in the hem, is secured in the groove with tacks, screws, or staples H, or any other suitable retaining devices that can be readily applied to said roller.

In order that the aforesaid rod or wire may be instantly removed whenever it is desired to detach the curtain, the heads B B' may be perforated respectively, as at I I', and by simply inserting a nail or pointed implement in one of said holes the rod can be forced out at the opposite hole a sufficient distance to enable the protruding end to be grasped with the fingers. Or, if preferred, only one of the heads may be perforated, and the rod can be forced out through said hole with a pair of pliers or pinchers.

Instead, however, of being compelled to use such a special implement, the rod may be nicked, as shown at g in Fig. 2, which nick or indenture will enable the bar to be shifted with a knife-blade, or even with the finger-nail. The invention may be further modified by screw-threading one or both ends of the rod and applying nuts thereto, in which case said rod and nuts would act as a tie to bind the heads B B' securely to the roller. Instead of a single rod, as shown, two bars or canes may be employed, these two sustaining members being inserted from opposite ends of the roller.

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

The combination, substantially as specified, of the grooved roller, the caps having, one or both, an aperture in line with the groove in the roller, the hemmed curtain, and the rod for attaching the curtain to the roller.

JOHN WILLIAM JOHNSON.

Attest:

D. P. KENNEDY,
CHARLES SHEMMELE.