

No. 763,319.

PATENTED JUNE 21, 1904.

J. B. OLSEN & W. J. FENNELL.

SHADE MOUNTING.

APPLICATION FILED JULY 30, 1903.

NO MODEL.

Fig. 1.

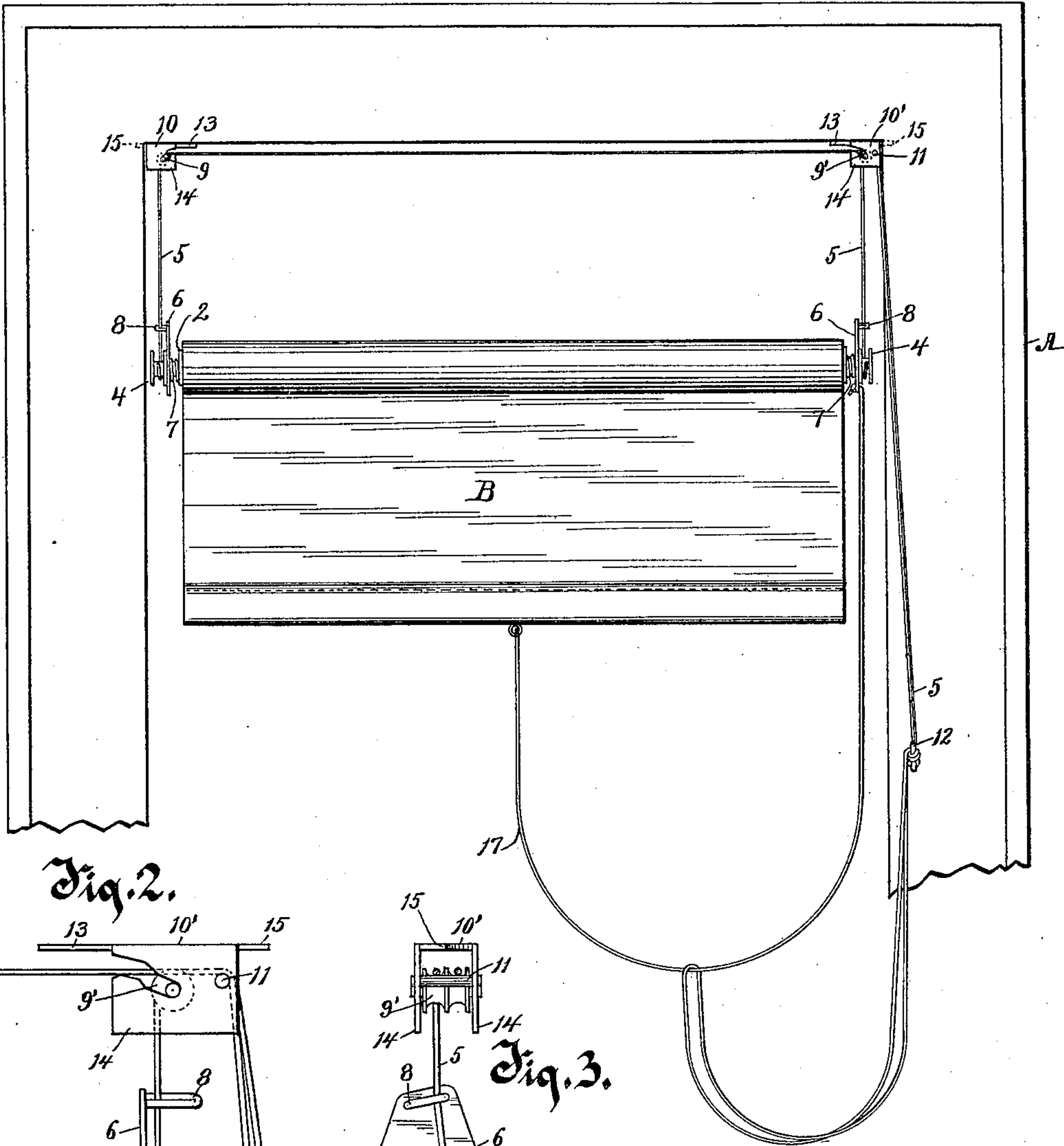
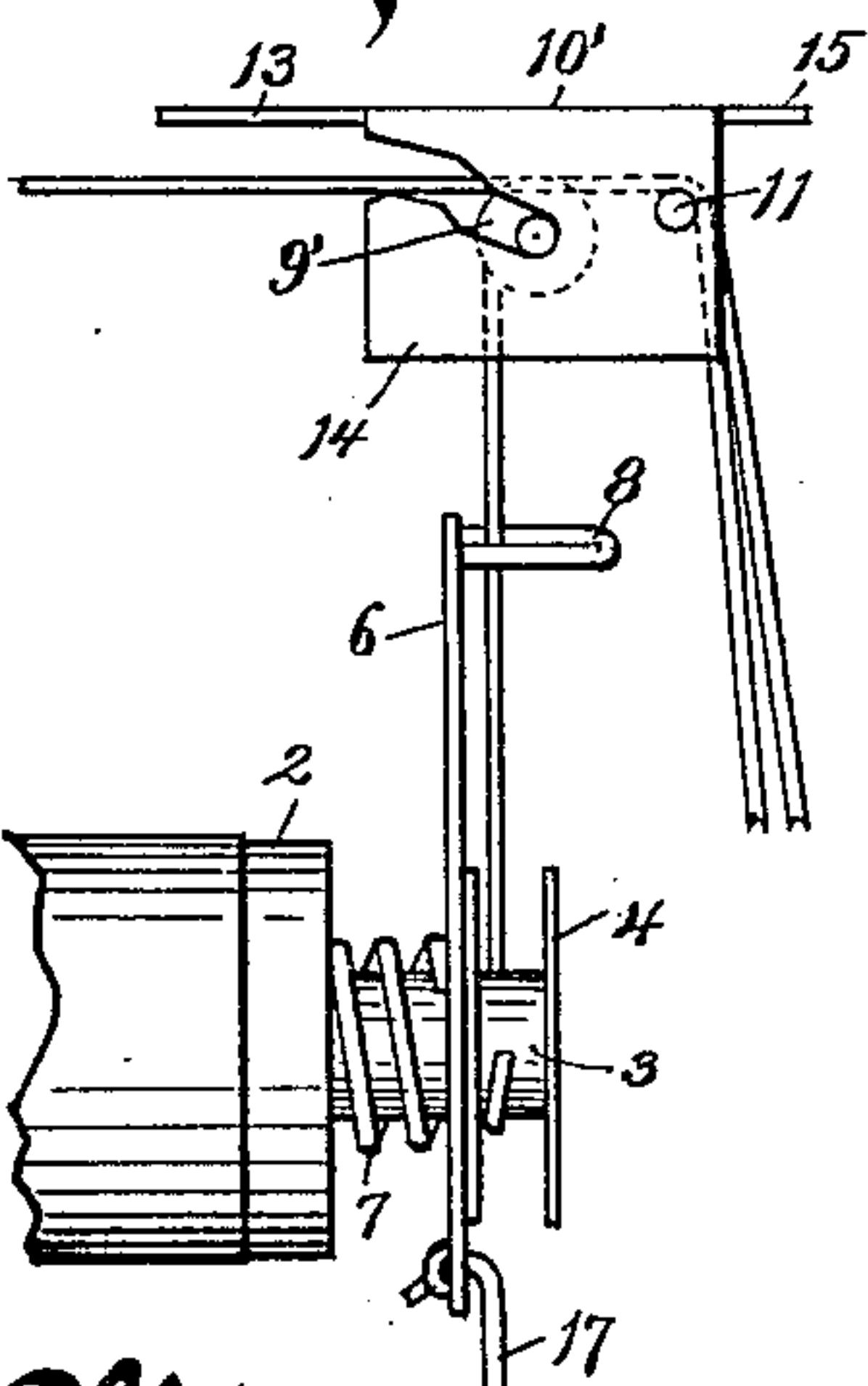


Fig. 2.



Witnesses:
C. H. Kenney.
Alma Klug.

Fig. 3.

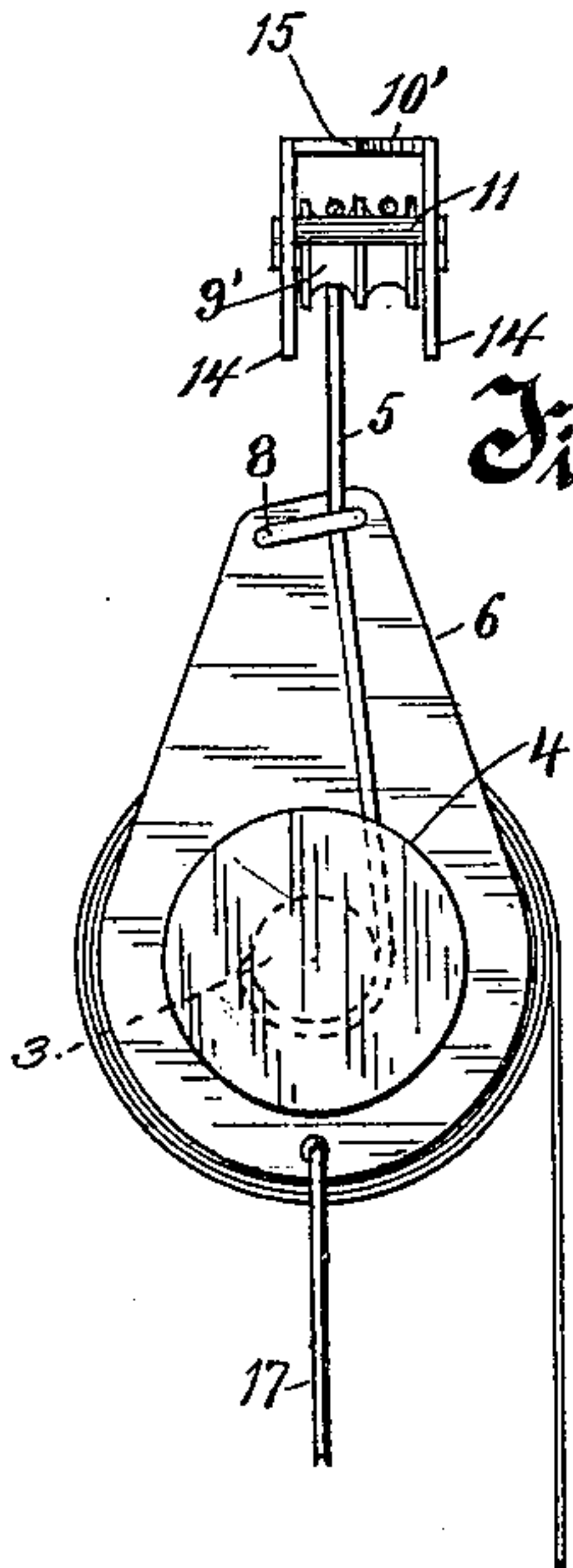
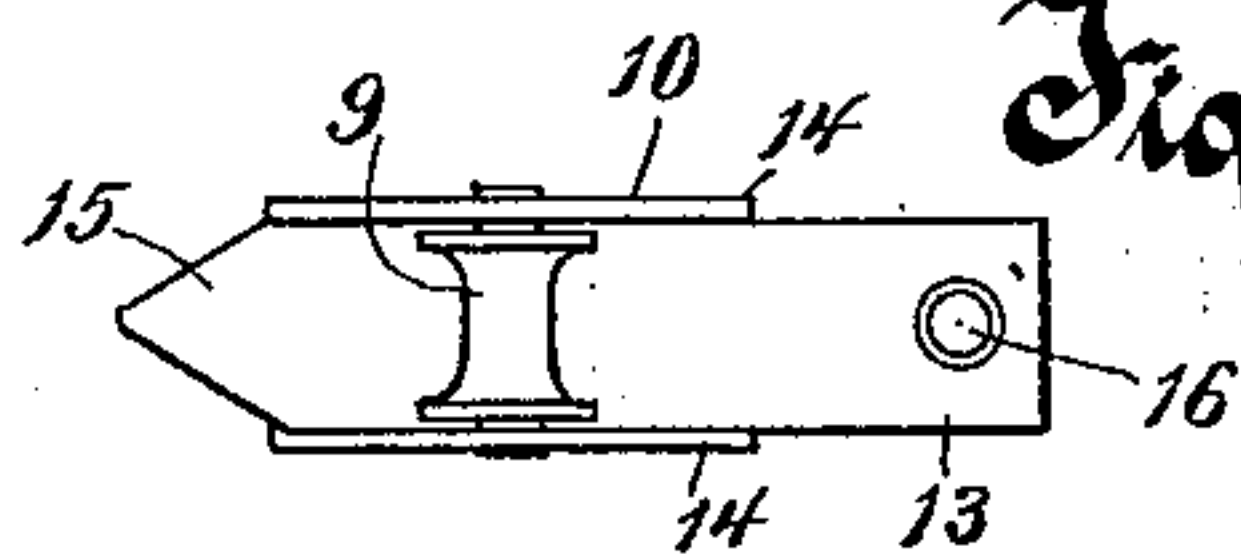


Fig. 4.



Inventors.
John B. Olsen
William J. Fennell
By Benedict T. Mosell
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN B. OLSEN AND WILLIAM J. FENNELL, OF MILWAUKEE, WISCONSIN.

SHADE-MOUNTING.

SPECIFICATION forming part of Letters Patent No. 763,319, dated June 21, 1904.

Application filed July 30, 1903. Serial No. 167,554. (No model.)

To all whom it may concern:

Be it known that we, JOHN B. OLSEN and WILLIAM J. FENNELL, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Shade-Mountings, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

Our invention is embodied in improved mountings for shades, especially that class of flexible cloth shades that are used with windows in residences and buildings, the object of the invention being chiefly to provide improved means whereby the shade can be raised and lowered bodily, can be readily wound up on its roller, and will be automatically held in this wound or rolled up condition, but so as to be capable of being readily unwound by merely pulling on a cord therefor without having to release any catch or disengage it from any stop, and other incidental benefits in construction and operation incidental to said chief features of the improvement.

The invention consists of the apparatus, its parts and combinations of parts, as herein described and claimed, or the equivalents thereof.

In the drawings, Figure 1 shows a fragment of a window-casing with a shade mounted thereon by our improved apparatus. Fig. 2 is an enlarged detail of the construction as seen from the front. Fig. 3 is an enlarged end view of a detail of the construction.

In the drawings, A represents a fragment of a window casing or frame.

B is a shade, of cloth or other flexible material. The shade B at one end is secured along the edge thereof to a roller 2, on which the shade is adapted to be rolled up in a manner in common use. The roller is provided with axial spindles 3 3, each provided with disks fixed thereon at a little distance apart, forming a spool 4, on which the roller-cords 5 5 are adapted to wind, the cords being secured thereto at their ends. These spools are rigid on the spindles and are located on the outer ends of the spindles at a distance from the ends of the roller, and clutch members 6 6, one on each spindle, are mounted loose on the spindles, the clutch members being in the

form of small plates which fit outwardly against the inner ends of the spools, thereby acting as friction-clutches on the spindles. The clutch members are held yieldingly in engagement with the spools by expansion-springs 7 7, coiled about the spindles and resting at one end against the ends of the roller and outwardly against the clutch members.

The roller-cords 5 5, running upwardly from the spools 4 4, pass loosely through guides 8 8 therefor, fixed in the clutch members 6 6 a little above the spindles, and thence run over pulleys 9 9' in brackets 10 10', adapted to be affixed to the window-casing, as shown in Fig. 1. The bracket 10 is provided with a pulley 9, Fig. 4, having a single groove, as only one of the cords 5, running from the spindle 3, is carried in this bracket, and over which it runs across the window-opening to the bracket 10', which is provided with a pulley 9', having two grooves adapted to carry the two roller-cords 5 5, one from each end of the roller, and keep them separate in position, and from which double pulley the cords preferably run over a rigid pin 11, which we advisably place in this bracket at a little distance from the double pulley, thus carrying the cords a little farther outwardly, from which position they run down to a convenient location to be taken hold of by a person for manipulating the shade. A pin or cleat 12, fixed in the casing at a convenient location, will serve as an anchor or post about which to wind, and thereby fasten, the roller-cords releasably.

The brackets 10 10' are advisably made of sheet-steel, being so cut therefrom as to provide a top member 13 and side members 14 14, the side members being provided with apertures for the axles of the pulleys and the top member being provided at its outer end with a sharp projecting end 15, adapted to be driven into the side members of the window-casing, against which the top member 13 of the bracket is placed in putting up these shade-mountings and to which the bracket is chiefly secured by means of a screw through the aperture 16. A shade-cord 17 may be attached to the shade, and the free end of this cord may be tied to the lower edge of the clutch member 6, an aperture therein being

provided therefor to keep the shade-cord from swinging around or getting tangled up with other parts.

In use assume that the shade B is entirely wound up on the roller 2 and that the roller is by means of the cords 5 5 drawn up close to the brackets 10 10' and that the cords 5 5 when the shade is in this condition and position are not wound on the spools 4 4. The shade may be then pulled down by drawing on the shade-cord 17, the roller-cords being unfastened from the cleat 12 to such extent as is desired, this operation resulting at the same time in winding the roller-cords 5 5 on the spools 4. If then it is desired to let the entire shade down from the top of the window, so as to leave an unobstructed space above the shade, this can be done by again loosening the roller-cords 5 5 from the cleat 12, so that the shade may be put in a condition and position corresponding with that shown in Fig. 1, in which the shade is let down a distance from the top of the window and is partially unrolled. In this position, the clutch members 6 6 being held against revolution by the upwardly-extending and taut cords 5 5, these clutch members will by their frictional contact with the spools 4 4 hold the roller against rotation, so that the shade will not by its weight cause the roller to give way and the shade be unwound therefrom. If now it is desired to roll up the shade, the roller-cords 5 5 can be unfastened from the cleat 12, and on pulling down thereon the roller and the shade will be lifted bodily to the brackets 10 10', and then with further pull on the roller-cords the shade will be wound up by the ro-

tation of the roller, the roller being rotated by the forced unwinding of the roller-cords thereon against the friction-holding of the clutch members 6 6.

What we claim as our invention is—

1. In combination, a flexible shade, a roller on which the shade rolls up, spindles fixed in the roller and provided with cord-spools, non-revoluble friction-clutch members loose on the spindles, springs holding the clutch members yieldingly to the spindles, supporting-cords winding on the spools, and brackets secured to a fixed support and carrying the supporting-cords.

2. In shade-mountings, a roller, spindles fixed in the roller, cord-carrying brackets secured to a window-frame, roller-supporting cords winding on the spools and running on the brackets, and means adapted to hold the roller yieldingly against rotation.

3. In shade-mountings, a roller, spindles fixed in the roller, spools on the spindles, clutch members loose on the spindles and bearing against the spools, springs holding the clutch members yieldingly to the spools, cords fastened to the spindles and winding on the spools and running through the clutch members holding them against rotation, and brackets provided with pulleys on which the cords run.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN B. OLSEN.

WILLIAM J. FENNELL.

Witnesses:

C. T. BENEDICT,

ALMA KLUG.