

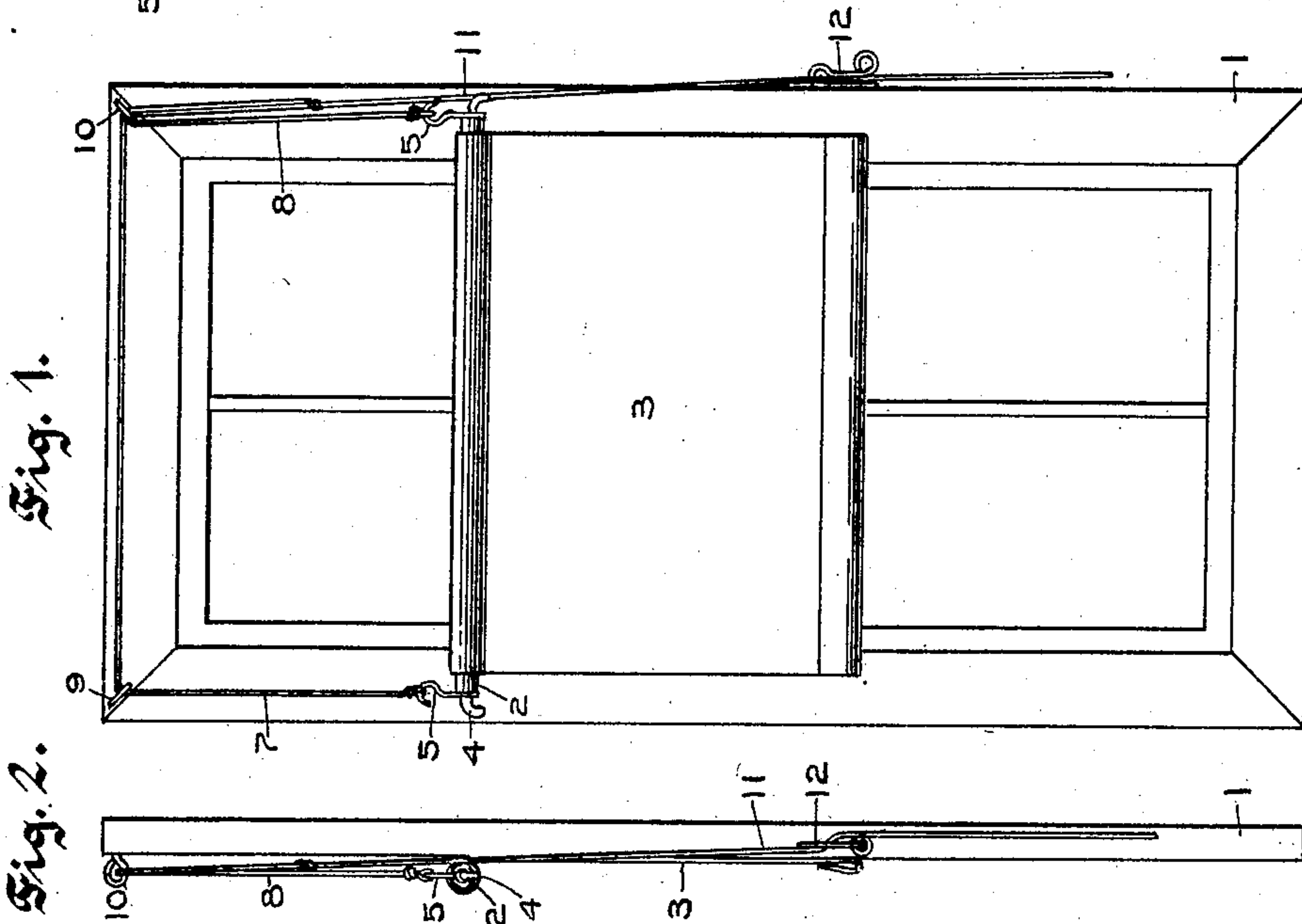
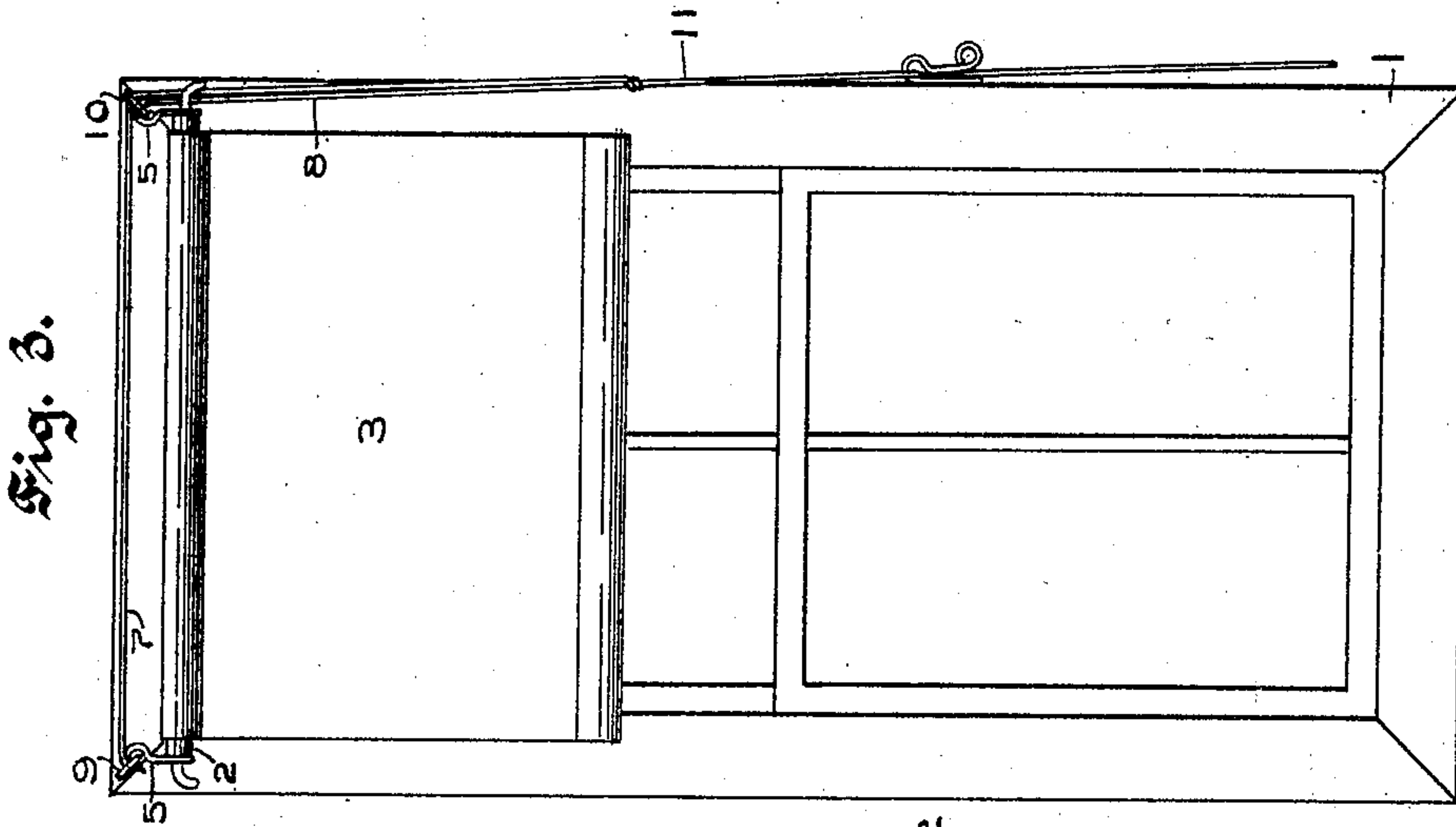
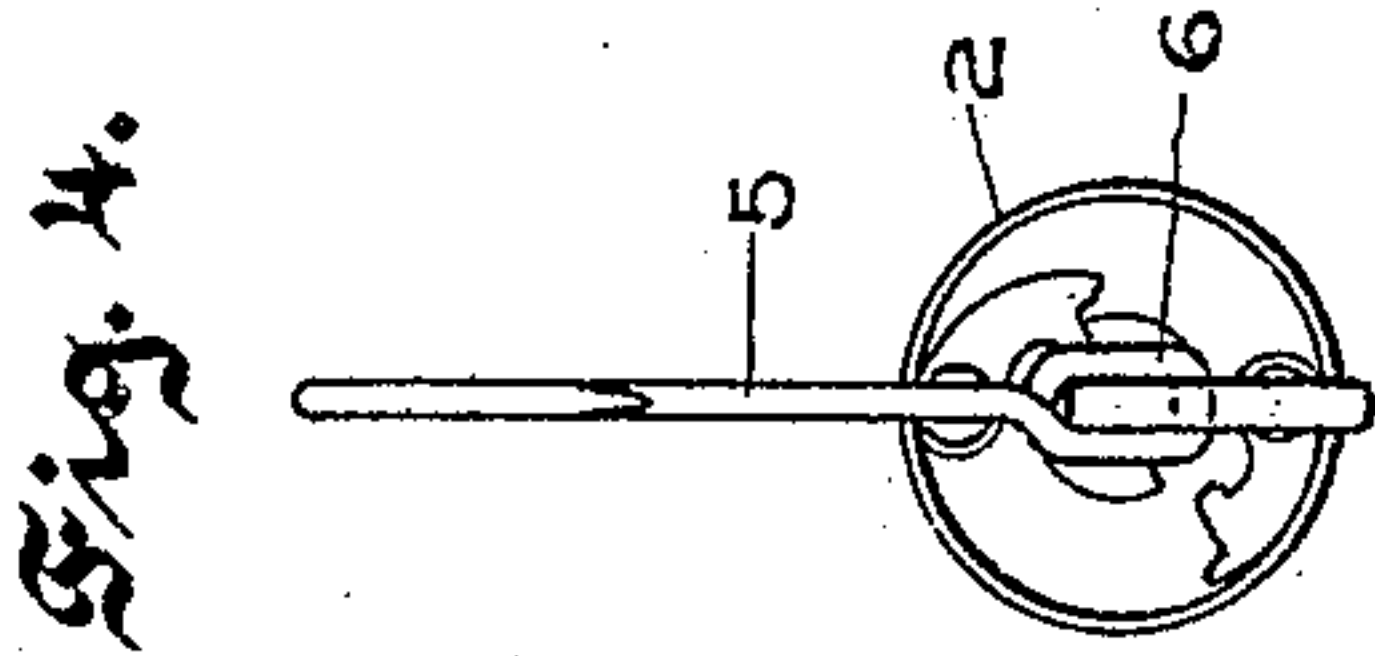
No. 711,582.

Patented Oct. 21, 1902.

B. MCKENZIE.
SHADE ROLLER SUPPORT.

(Application filed Dec. 9, 1901.)

(No Model.)



Witnesses,
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UNITED STATES PATENT OFFICE.

BENJAMIN MCKENZIE, OF ST. PAUL, MINNESOTA.

SHADE-ROLLER SUPPORT.

SPECIFICATION forming part of Letters Patent No. 711,582, dated October 21, 1902.

Application filed December 9, 1901. Serial No. 85,181. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN MCKENZIE, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Shade-Roller Supports, of which the following is a specification.

My invention relates to improvements in shade-roller supports, its object being to provide means by which the shade-roller may be vertically adjusted with respect to the window-frame and which will securely support the roller at the top of the frame when vertically adjusted.

To this end my invention consists in the features of construction and combination hereinafter specifically described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is an elevation of a window-frame, showing my improvements applied to a shade-roller. Fig. 2 is a side elevation. Fig. 3 is a front elevation of a window-frame, showing the shade-roller supported at the top of the frame by means of my improvements; and Fig. 4 is a detail of one end of the shade-roller, shown provided with a bracket forming part of my invention.

In the drawings, 1 indicates the window-frame, 2 the shade-roller, and 3 the shade. The ends 4 of the roller-shaft are bent downward, preferably on a curved line, as shown, and these ends removably engage eyes at the lower ends of brackets 5, while the upper ends of said brackets terminate in hooks, which are bent, preferably, outward away from each other. The eye of the bracket at one end of the roller is round, so as to permit the stub-shaft to turn freely therein, while the bracket at the other end of the roller is shown in Fig. 4 formed with an oblong eye 6 to prevent turning of the roller, and thus allow the roller-spring to act in the ordinary manner. Cords 7 and 8 are each connected at one end with one of the brackets 5, said cords passing through eyes 9 and 10 at the top of the window-frame and joining in a cord 11. By means of said cords it will be evident that the shade-roller can be vertically adjusted to any desired position upon the window-frame, the cord 11 then being secured in the spring-clamp 12 to hold the roller in said position.

The shade is then raised or lowered with respect to the roller in the ordinary manner. Thus any desired amount of light can be admitted at both top and bottom of the window. If it is wished to permanently support the roller at the top of the window, the bracket-hooks 5 can be hooked into the eyes 9 and 10, as shown in Fig. 3, and the cords either removed or left in position, as shown. The eyes 9 and 10 are preferably turned at an oblique angle to receive the bracket-hooks, and the looseness of the bracket-eyes upon the stub-shafts permits their slight movement in the plane of the length of the roller, whereby they can be engaged with the eyes 9 and 11 without being disengaged from the stub-shafts, yet they may be removed from the stub-shafts when desired.

By the term "cord" I mean to cover any flexible support, such as the ordinary curtain cord, chain, &c.

I claim—

1. The combination with a window-frame, a shade-roller having stub-shafts which are curved downwardly, and eyes in the corners of said frame; of two independent brackets having hooks at their upper ends turned in line with the length of the roller, whereby they may be engaged with said eyes in the frame, and bearing eyes at their lower ends loosely and removably surrounding said stub-shafts, and cords leading from the hooks through the eyes in the window-frame and downward to within reach of the operator.

2. The combination with a window-frame, a shade-roller having stub-shafts, and eyes standing at an angle with the roller in the corners of said frame; of two independent brackets having hooks at their upper ends turned in line with the length of the roller, whereby they may be engaged with said eyes in the frame, and bearing eyes at their lower ends loosely and removably surrounding said stub-shafts, and cords leading from the hooks through the eyes in the window-frame and downward to within reach of the operator.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN MCKENZIE.

Witnesses:

H. S. JOHNSON,
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