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PATENTED NOV. 27, 1906.

W. B. REYNOLDS & E. B. McCARTHY.

SHADE ROLLER ATTACHMENT.

APPLICATION FILED JUNE 9, 1906.

Fig. 1.

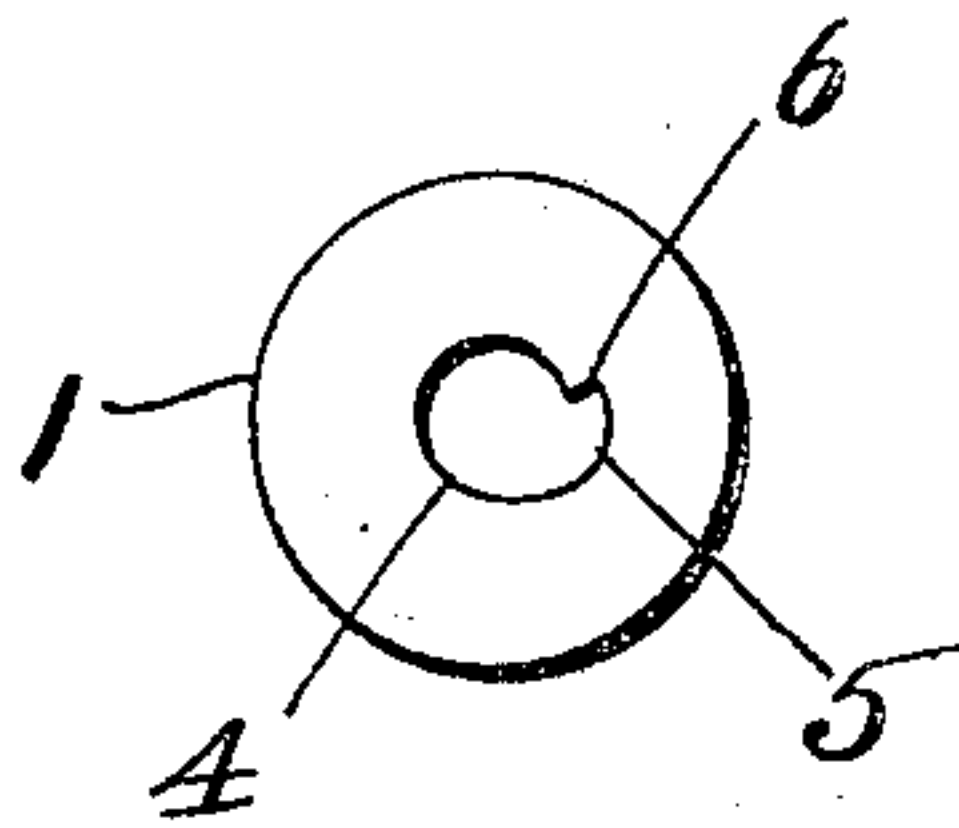


Fig. 2.

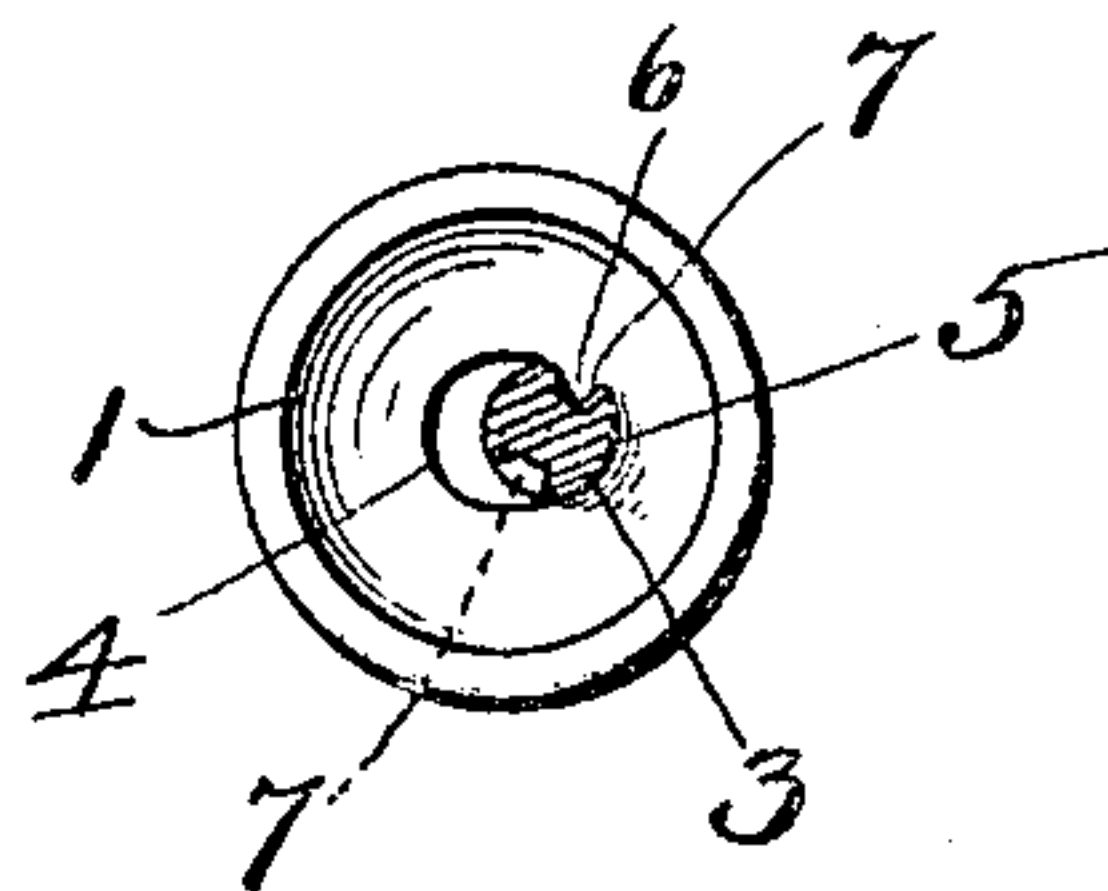


Fig. 3.

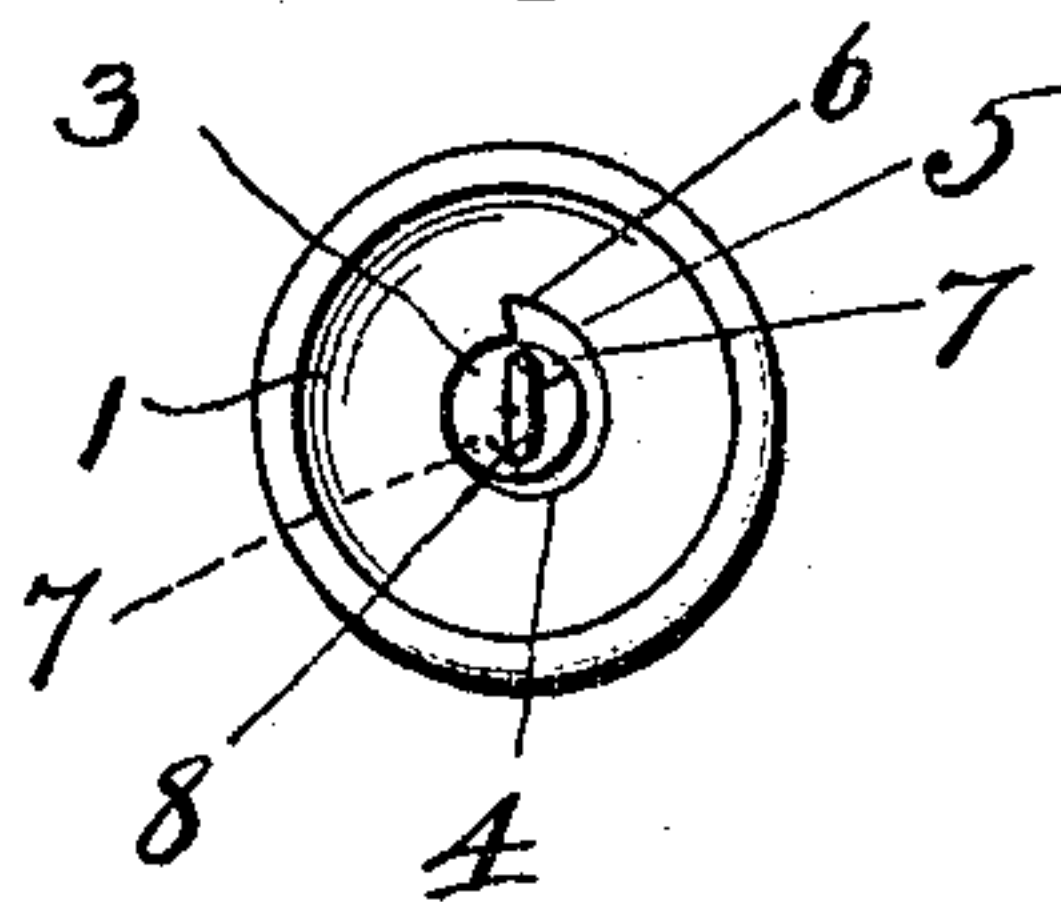


Fig. 4.

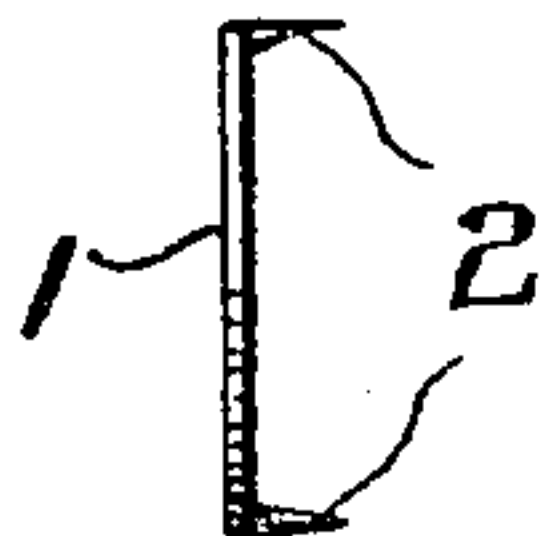


Fig. 5.

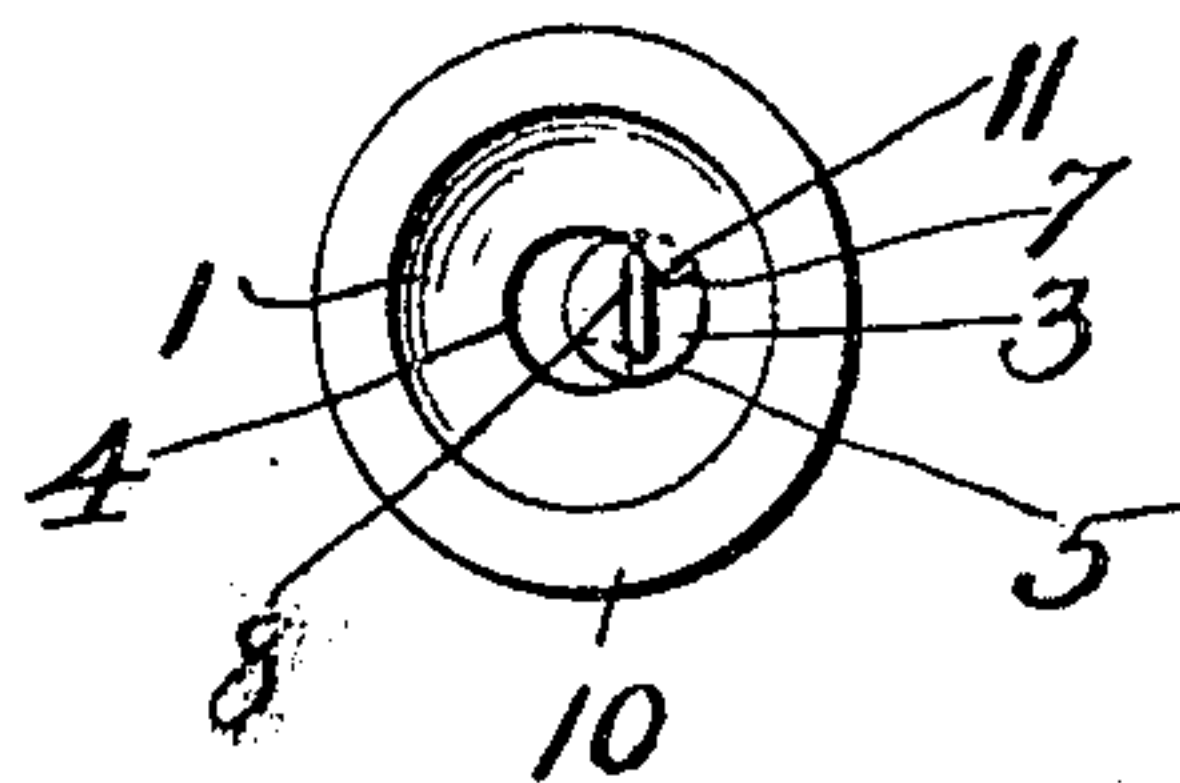
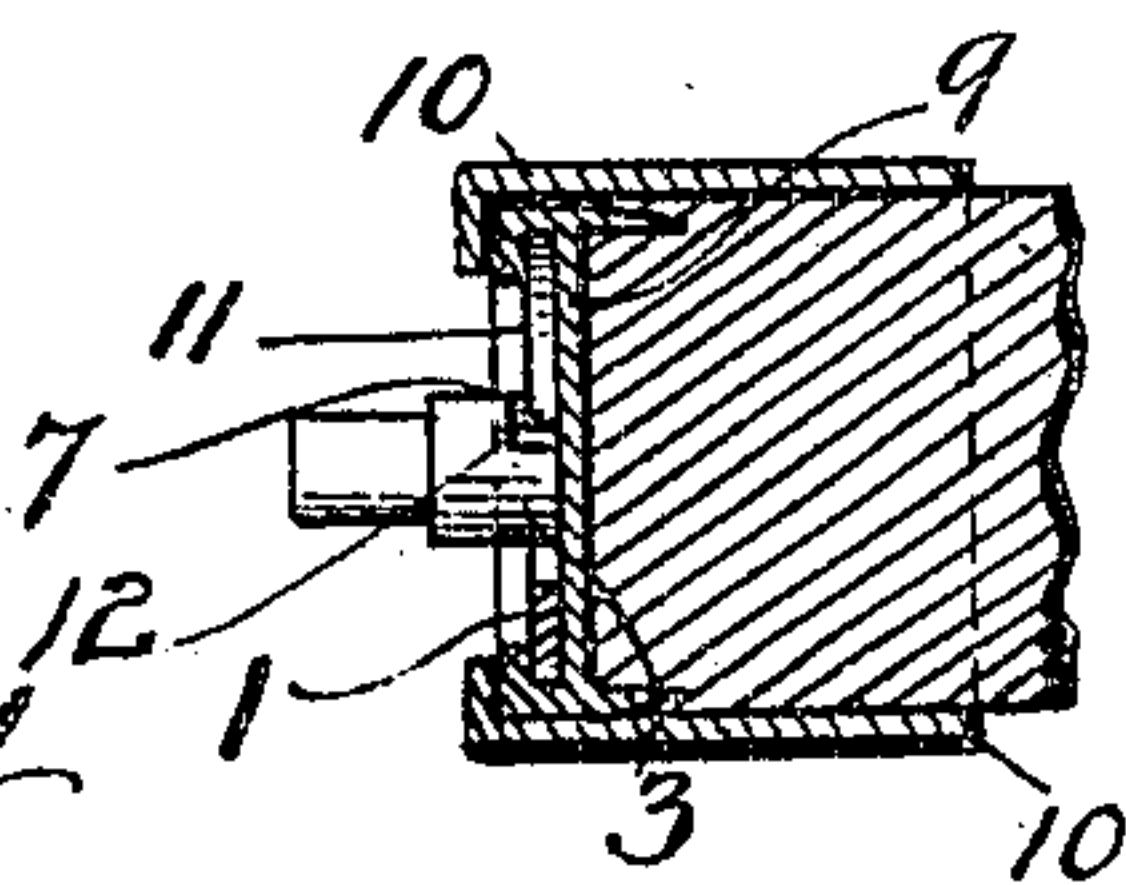


Fig. 6.



Witnesses

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SHADE-ROLLER ATTACHMENT.

No. 837,119.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed June 9, 1906. Serial No. 321,026.

To all whom it may concern:

Be it known that we, WILLIAM B. REYNOLDS and ELISHA B. McCARTHY, citizens of the United States, residing at Minetto, in the
5 county of Oswego and State of New York, have invented certain new and useful Improvements in Shade-Roller Attachments, of which the following is a specification.

Our invention relates to shade-roller at-
10 tachments; and its object is to provide a spindle-socket device for the end of a shade-roller that shall be simple and inexpensive in construction and effective in operation.

In preferable form the invention is em-
15 bodied in the device illustrated in the accompanying drawings and hereinafter described.

In the drawings, in which like figures of reference denote the same parts throughout the several views, Figure 1 is a plan view of
20 the socket-plate embodying the invention. Fig. 2 is a similar view showing the end of an ordinary spring-roller spindle in position therein when the roller is locked. Fig. 3 is a similar view showing the relative position of
25 roller and spindle when the former is moved so as to unlock the catch formed by spindle and socket and permit the spring to roll up the shade or the roller to be pulled down. Fig. 4 is an edge view of the socket-plate.
30 Fig. 5 is a plan view of the socket-plate applied to the cup of an ordinary spindle shade-roller attachment, and Fig. 6 is a section through Fig. 5.

Referring to the drawings, 1 is the socket-
35 plate, which is preferably formed of a flat disk-like piece of metal. It is preferably secured to the end of the ordinary wooden shade-roller by means of the struck-out prongs 2.

The "spear" 3 or projecting end of the
40 spring-controlled spindle is adapted to project through and rest in an opening 4 in the socket-plate. This opening is substantially pear-shaped in form, being partly circular and having an eccentric prolongation 5. At
45 the end of this prolonged portion there is formed a hook or tongue 6 projecting inwardly from the inner circumference of the opening and substantially parallel with the diameter of the semicircle of the opening, so
50 as to form a retaining stop or catch for the roller. The spindle is preferably provided with a notch or slot 7, with which the tongue 6 is adapted to engage, so as to lock the roller from turning. The spindle is provided with

the usual squared end 8, adapted to fit in 55 the fixture that is fastened to the window-casing. This squared portion may directly engage the socket, if so desired, and the slots 7 be dispensed with.

Normally the spindle is adapted to rest in 60 the recess formed by the eccentric prolongation 5 behind the tongue 6, the latter there engaging the slot 7 in the fixed spindle and being held therein by the pressure of the
65 spring, thereby preventing the roller from turning. When the shade is pulled down or jerked, the tongue of the roller will be moved past the slot 7 and the circular part of the roller-opening will rotate around the spindle.
70 When the shade is stopped, the spindle will again project into the elongated portion 5 and the tongue will engage the slot or squared portion and hold the roller securely from turning.

In the usual form of catch device now used 75 for spring-rollers a metal cup on the end of the roller is employed, which cup has a circular opening and has two loose pawls riveted thereon and guided by flanges. The pawls
80 are adapted to engage the squared end of the spindle. These pawls must be stamped out and are applied to the cup by hand. In the present invention the expense and labor of making and applying these pawls and rivets
85 are entirely dispensed with and an equally effective catch device provided.

Instead of securing the socket-plate di-
rectly to the end of the wooden roller it may be applied to the cup of the ordinary shade-
90 roller attachment, with the pawls left out, as shown in Figs. 5 and 6. In this case, 9 represents the cup, 10 the ordinary securing-ferrule, and 11 is the socket-plate secured on
said cup and provided with a tongue 12.

It is clear that various modes of securing 95 the socket-plate to the roller may be employed and the shape of the opening varied somewhat without departing from the principle of the invention.

Having thus described our invention, what 100 we claim is—

1. In combination with a spring shade-roller, a spindle, a plate on the roller, said plate having an opening surrounding the spindle and provided with an eccentric pro- 105 longation which engages said spindle when the roller is at rest, and is released therefrom when the roller is rotated so as to carry the

plate concentrically around the spindle, substantially as described.

2. In combination with a spring shade-roller, a spindle, a plate on the end of the
5 roller, said plate having an opening through which the spindle extends and bearing loosely on said spindle and having an eccentric prolongation of said opening in which
10 the spindle rests when the roller is at rest and a tongue at the end of said prolongation adapted to engage said spindle, said roller adapted to be released from said spindle
15 when pulled to concentric position whereby the roller may be freely rotated, substantially as described.

3. In combination with a spring shade-roller and its spindle, a catch for said roller consisting of a disk-like plate having a
20 partly-circular opening with an eccentric prolongation provided with a tongue, said roller resting on said spindle in said prolonged portion by its own weight when the spindle is fixed in the bracket and means on

said spindle to engage said tongue, substantially as described.

4. In combination with a spring shade-roller and its spindle, a catch consisting of a
25 disk-like plate having prongs whereby it is driven into the end of the roller and having a central opening, the edge of which rests di- 30 rectly on the spindle, said spindle normally engaged by a tongue formed by an eccentric prolongation of the opening, the roller being held in such engagement by its own weight,
35 the remainder of said opening being circular whereby when the roller is released from the spindle it is rotated around the same, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of 40 two subscribing witnesses.

WILLIAM B. REYNOLDS.

ELISHA B. McCARTHY.

Witnesses:

J. E. McCARTHY,

MELVIN F. STEPHENS.