

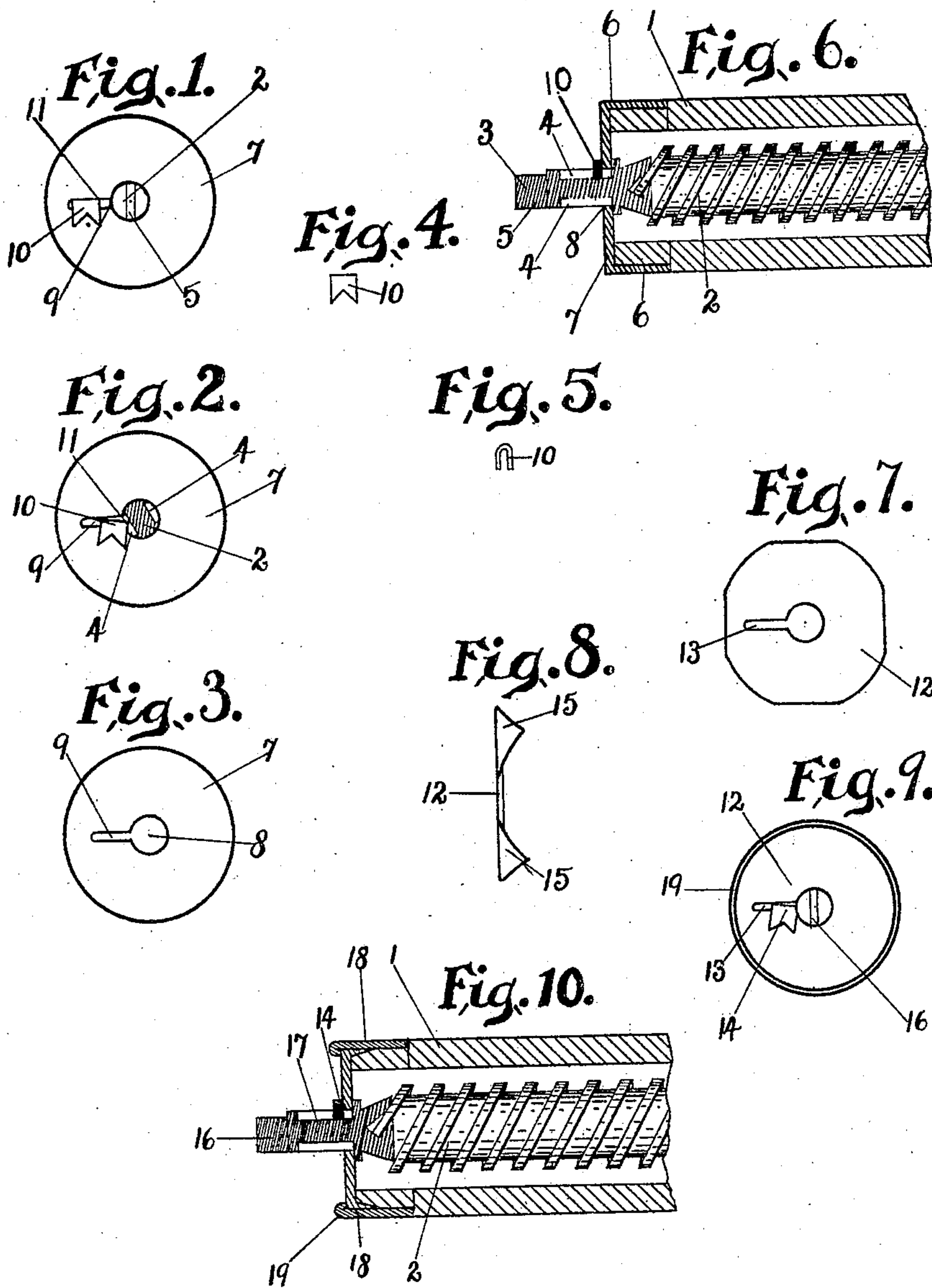
No. 848,495.

PATENTED MAR. 26, 1907.

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

SHADE ROLLER ATTACHMENT.

APPLICATION FILED DEC. 26, 1906.



Inventors.

William B. Reynolds
& Elisha B. McCarthy
W. P. Doolittle

Witnesses

McEmory Jones Jr.
J. L. Jones

By

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM B. REYNOLDS AND ELISHA B. McCARTHY, OF FULTON,
NEW YORK.

SHADE-ROLLER ATTACHMENT.

No. 848,495.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed December 26, 1906. Serial No. 394,434.

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 Fulton, in the 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 catches for shade-rollers, and is particularly designed to obviate the necessity of the riveted pawls commonly employed and at the same time provide an exceedingly cheap and effective form of catch.

The device of our present invention operates upon the same general principle of the catch set forth in the patent issued to us on November 27, 1906, No. 837,119, for shade-roller attachments, in which an eccentric prolongation of the spindle-hole of a plate formed integral with or separate from the ferrule on the end of the roller provides a projection or hook adapted to engage the usual slots in the spindle so as to form a stopping-catch for the roller.

In the present device a movable stop member is employed which is adapted to extend into the spindle-opening eccentrically to the circular inner edge thereof to engage the spear and to move away from said opening to release the spindle-spear and to permit it to revolve past the stop member.

In the accompanying drawings, which illustrate the invention, Figure 1 is an end view of the roller; Fig. 2, a cross-section through the spear-slots; Fig. 3, a plan or end view of the ferrule-plate, showing spear and catch or stop member removed; Figs. 4 and 5, detail plan and edge views of the catch or stop member; Fig. 6, a longitudinal section; Figs. 7 and 8, detail plan and edge views of a plate for a modified form; Fig. 9, an end view of roller, showing ferrule for holding such plate; and Fig. 10, a longitudinal section of such modified construction.

Referring to the drawings, 1 is a shade-roller of the usual form, in which is mounted a spring-controlled spindle 2, having a projecting spear 3. This spear is provided in its rounded portion with the usual longitudinal slots 4, adapted to engage a catch device to hold the roller from turning. The spear terminates in the usual squared head

5, adapted to engage a fixed bracket mounted in the wall.

On the end of the roller is fixed a ferrule 6, inclosing the spear and having its outer end closed by an integral disk or plate 7. This plate is provided with a central circular aperture 8, through which the spear projects and by means of which the roller is adapted to rotate around the spear.

Extending radially from the central opening is a slot or opening 9, adapted to serve as a guideway for a movable catch device. This catch or stop member 10 consists, preferably, of a small flat piece of metal substantially rectangular and doubled upon itself to form a saddle, so that it may enter and move in the slot 9 and extend upon each side of the plate 7. The square corner 11 of the catch 10 provided by the doubled formation of the said member is adapted to project into the uppermost slot 4 of the spear when the roller is rotated slowly and the catch is carried above the said slot, so that it will drop down its guideway by gravity.

In Figs. 7 to 10, inclusive, there is illustrated a modified form of device in which the slotted plate for carrying the catch is made separate from the ferrule. In this arrangement 12 designates the catch-carrying plate and 13 the radial slot forming the guideway for the sliding catch. The catch 14 may be of the same construction as that employed in connection with the device of Figs. 1-6.

The plate 12 is provided on its inner surface with inwardly-extending prongs 15, adapted to engage the end of the wooden roller. The spear 16 extends through the central circular opening 17 in this plate in the usual manner to permit of the rotation of the roller around the spear.

Inclosing the plate 12 surrounding the end of the roller is a ferrule 18, open at its outer end and provided with an annular lip 19, adapted to bear upon the outer surface of the plate to hold it firmly in place on the roller.

In the operation of the device with either the ferrule catch-plate form or with the independent catch-plate construction a rapid rotation of the roller will carry the plate and its sliding catch freely around the spear; but when the roller is rotated with sufficient slowness the corner of the catch will fall into

the slot 4 of the spear when the catch-slot reaches a substantially perpendicular position above the spear, thus locking the roller and spear together, thereby holding the shade stationary. Upon pulling the shade downward the roller and its catch-plate will be carried backward and upward in an anti-clockwise direction, thus carrying the corner of the catch out of the slot 4 of the spear and permitting the roller to rotate freely around the spear.

It will be seen that the movable catch acts somewhat upon the same principle as the eccentric prolongation in the plate of our prior patent, since it serves to project itself eccentrically into the circular opening surrounding the spear, thus serving to interrupt the normal rotative movement of the roller by engagement with the slot of the spear.

It is clear that various changes in the details of construction and arrangement of the device may be made without departing from the principle of our invention.

Having thus described our invention, what we claim is—

1. In combination with a spring shade-roller, and a spindle and its spear, a flat disk-

like plate on said roller, said plate having a central opening for the spear and having a slot extending radially from said opening and a saddle member adapted to extend on each side of said plate and slidingly mounted in said slot, said spear having a slot and said saddle member having a corner portion adapted to engage said spear-slot, substantially as described.

2. In combination with a spring shade-roller, and a spindle and its spear, a ferrule mounted on the end of said roller and having a flat disk-like plate portion at its outer end, an opening to admit the spear and a radial slot extending from said opening and a sliding catch device adapted to extend on each side of said plate and mounted on said plate in said slot, substantially as described.

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

WILLIAM B. REYNOLDS.
ELISHA B. McCARTHY.

Witnesses:

JAMES McCARTHY,
MELVIN F. STEPHENS.