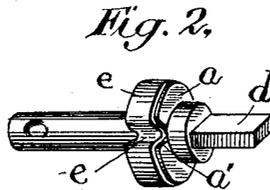
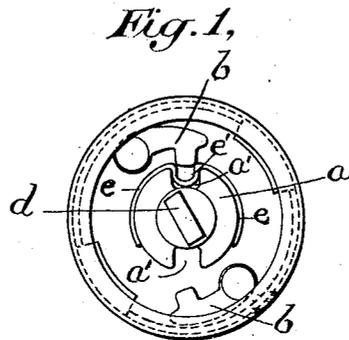


(No Model.)

E. F. HARTSHORN.
ATTACHMENT FOR SHADE ROLLERS.

No. 568,250.

Patented Sept. 22, 1896.



Witnesses:-
B. H. Raymond
J. E. Green

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UNITED STATES PATENT OFFICE.

EDMUND F. HARTSHORN, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE STEWART HARTSHORN COMPANY, OF NEW JERSEY.

ATTACHMENT FOR SHADE-ROLLERS.

SPECIFICATION forming part of Letters Patent No. 568,250, dated September 22, 1896.

Application filed January 23, 1896. Serial No. 576,524. (No model.)

To all whom it may concern:

Be it known that I, EDMUND F. HARTSHORN, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Attachments for Shade-Rollers, of which the following is a specification.

My improvement refers to spring shade-rollers, and to that class of spring shade-rollers having a pawl and ratchet for controlling the revolution of the shade; and it consists of an attachment for the hub or ratchet of the roller whereby the pawl is held from engagement with the latter.

In the accompanying drawings, illustrating my improvement, Figure 1 is an end view of the roller, showing the attachment on the hub. Fig. 2 is a side view of the outer or spear end of the spindle and the hub, with the attachment in place on the latter; and Fig. 3 is a view of the attaching device.

a is the ratchet-hub on the end of the stationary spindle provided with two notches a' , and b are the pawls pivoted to the end of the roller and arranged to engage with the notches on the hub a .

As is well known, when the roller is held in the brackets at the top of the window, one of the notches a' in the hub is always up, and into this upper notch one of the two pawls drops every half-revolution of the roller when the shade is run up with the necessary slowness of speed, and thus holds the spring and prevents the further revolution of the roller. In this position it is necessary that the pawls and ratchet, or notches or hubs, are always free to engage with each other. In those cases, however, where the shade-roller is placed at the bottom of the window and the shade is pulled up toward the top of the latter in unwinding, the end of the shade is held up by a catch-pulley or other common device, over which a cord passes from the end of the shade, and, as will be readily understood, in order to keep the shade taut and prevent it from falling slack on the roller it is necessary that the tension of the spring shall always be on the shade, and hence that the spring shall always be free to act and shall not be held by the pawl.

As the rollers are constructed, by reason of the relative position of the notches on the hub with respect to the flat end d of the spindle which fits in the bracket, one of the notches a' must always be up in position to engage with the pawls, and as when the roller is at the bottom of the window this engagement must be prevented it is necessary to keep the pawl from entering the notch and thus engaging with the latter.

My improvement is intended to accomplish this result, and consists of a spring-clip e , sprung onto the hub a and over the upper notch a' . As will be seen from the drawings, this clip is a little more than one-half of the circumference of the hub and fits tightly over the latter and is provided at its center with an indent e' , which fits into the notch a' . This indent prevents the clip from slipping around the hub and also prevents the clip from sliding off the end of the spindle and at the same time, as it is smaller than the toe of the pawl, prevents the entrance of the latter into the notch, as shown in Fig. 1. When in place on the hub, the clip, as will be seen, covers only one notch, leaving the other notch free for use in adjusting the shade.

I claim—

1. In spring shade-rollers, an attachment for the ratchet-hub of the roller consisting of a clip adapted to fit over the hub and cover one of the notches on the same, and provided with means whereby the clip is prevented from turning on the hub, substantially as and for the purpose described.

2. In spring shade-rollers, the clip e , adapted to fit over the ratchet-hub of the roller, and cover one of the ratchets on the same, provided with the indent e' arranged to enter the notch on the hub, whereby the clip is attached to, and prevented from turning on, the hub, substantially as described.

Signed at Newark, in the county of Essex and State of New Jersey, this 27th day of December, A. D. 1895.

EDMUND F. HARTSHORN.

Witnesses:

THOS. E. BULLIRANT,
E. L. DURGIN.