(No Model.)

2 Sheets—Sheet 1.

L. S. HILLYER.

SHADE OR GLOBE HOLDER.

No. 456,034. Patented July 14, 1891.

FIG. I.

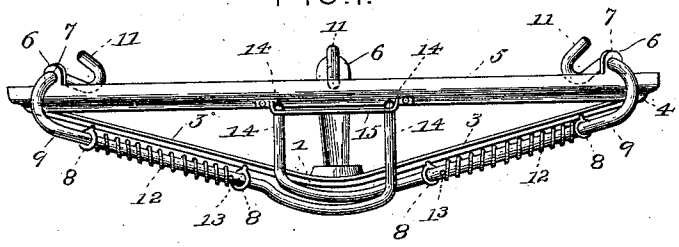
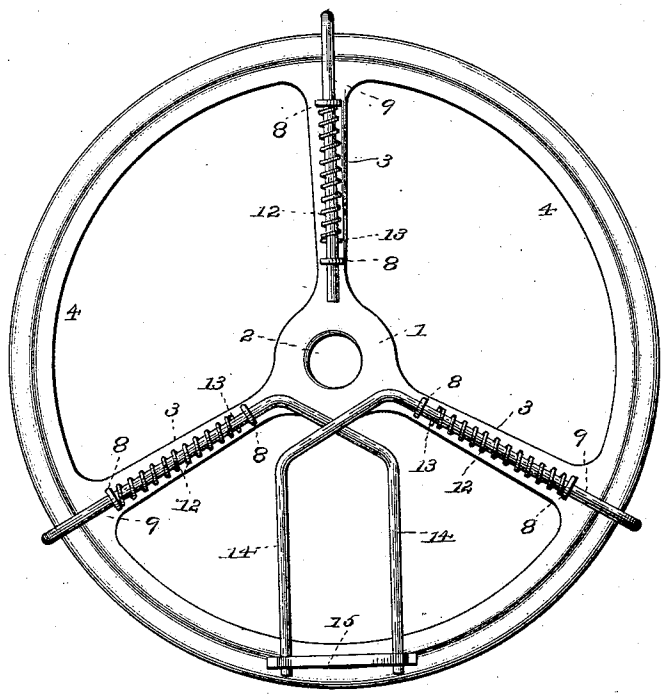


FIG. II.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

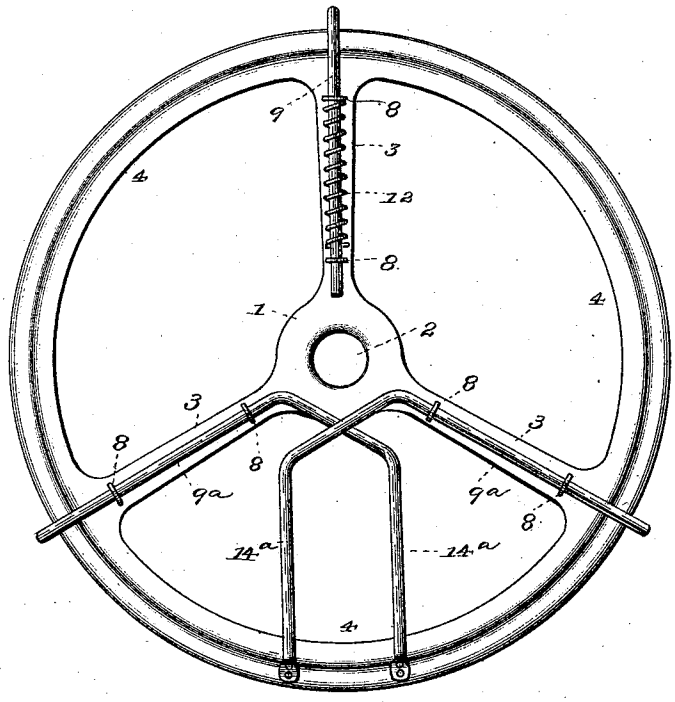
(No Model.) 2 Sheets—Sheet 2.

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FIG. III.



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UNITED STATES PATENT OFFICE.

LILLIAN STANLEY HILLYER, OF EAST ORANGE, NEW JERSEY.

SHADE OR GLOBE HOLDER.

SPECIFICATION forming part of Letters Patent No. 456,034, dated July 14, 1891.

Application filed November 21, 1890. Serial No. 372,217. (No model.)

To all whom it may concern:

Be it known that I, LILLIAN STANLEY HILLYER, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Shade or Globe Holders, of which the following is a full, clear, and exact description.

My invention relates to an improvement on those shade or globe holders which are provided with spring-catches for retaining the shade or globe in its seat on the holder; and the object of my improvement is to provide improved means by which such catches can be readily operated.

My invention consists in providing the ordinary supporting-frame of a shade or globe holder with spring-catches, two of the adjacent catches having crossed radial operating-arms adapted to be drawn or pinched together sidewise for throwing out these catches, and thus permit the removal or replacing of the shade or globe. The catches and their arms may be either rigid and sliding and each of the catches surrounded by a coil-spring for retracting them, or they may be made entirely of steel with fixed inner ends.

In order that my invention may be fully understood, I will proceed to describe the same with reference to the accompanying drawings, in which—

Figure I is a side elevation of my improved shade or globe holder. Fig. II is a bottom view thereof. Fig. III is a similar view showing a modification.

My shade or globe holder is constructed with a supporting-frame which is formed with a head 1, having a central orifice 2, adapted to receive the screw-threaded reduced end of the coupling to the gas-pipe and to seat around the same, with the radial arms 3 extending from the head, and with a ring 4 on which the shade or globe is seated, having an upwardly-extending flange 5 for holding the shade or globe in place on the ring, provided with the lips or ears 6, each lip or ear being furnished with an opening or hole 7.

8 are guide-eyes secured in pairs to the under side of each arm of the frame and supporting catch rods or wires 9, adapted to slide therethrough. These rods or wires are formed with catches at their outer ends, having inbent portions which lap around the upwardly-extending flange and work through the openings or holes in the lips or ears and extend over the ring, so as to retain the shade or globe in place. The ends of the inbent portions are formed with outbent portions 11, which extend over the outer ends of the lips or ears and engage the latter to prevent the removal of the rods or wires when they are thrown out. The rods may be forced inward by means of springs 12, as shown in Figs. I and II, wound around their bodies and bearing at their outer ends against the outer guide-eyes and bearing at their inner ends against cross-pins 13, secured to the rods. For the purpose of throwing out the rods to remove or replace a shade or globe I provide the inner ends of two adjacent rods with curved or bent operating paired arms 14, which cross each other at their inner portions and extend outward alongside each other to a point beneath the ring, where they are supported by strap 15, secured to the ring.

In the modification shown in Fig. III, I substitute spring-steel wires 9^a, having arms 14^a for the rods 9, having arms 14. In this construction I am enabled to dispense with the springs 12. The outer ends of the spring-arms of these wires are secured to the ring.

To operate the catches it is only necessary to grasp the arms of the rods or wires to draw or pinch them together sidewise, which action will throw out the catches. Upon releasing the arms the catches will fly into place again.

Having thus described my invention, the following is what I claim as new therein, and desire to secure by Letters Patent:

1. A supporting-frame provided with catches having crossed arms for throwing them out, substantially as shown and described.

2. A supporting-frame provided with a ring and with catches having paired arms crossed at their inner portions and extending alongside each other to the ring, substantially as shown and described.

3. A supporting-frame provided with an upwardly-extending flange and with catches having paired arms for throwing them out, and inbent ends extending over the upwardly-extending flange of the frame, substantially as shown and described.

4. A supporting-frame provided with an upwardly-extending flange having lips or ears and with catches having paired arms for throwing them out, and inbent ends extending through the lips or ears of the upwardly-extending flange of the frame and outbent ends on the ends of the inbent ends adapted to extend over the lips or ears, substantially as shown and described.

5. A supporting-frame provided with a ring and with catches having paired arms for throwing them out, extending alongside each other to the ring, and a strap by which the outer ends of the arms are supported, substantially as shown and described.

6. The combination of the supporting-frame provided with a ring and having guide-eyes and lips formed with openings, the sliding rods or wires having inbent outer ends and outbent ends on said inbent ends and crossed paired arms at their inner ends and extending alongside each other to the ring, substantially as described.

7. The combination of the supporting-frame having guide-eyes and lips formed with openings, the sliding rods or wires having inbent outer ends and outbent ends on said inbent ends, cross-pins secured to the bodies, and springs wound around the bodies between the outer guide-eyes and the cross-pins, substantially as shown and described.

8. The combination of the supporting-frame having guide-eyes and lips formed with openings, the sliding rods or wires having inbent outer ends and outbent ends on said inbent ends, cross-pins secured to the bodies of the rods or wires, springs wound around the bodies of the rods or wires between the outer guide-eyes and the cross-pins, and the paired crossed arms by which the rods are thrown out, substantially as shown and described.

9. A supporting-frame provided with radial arms, with a ring, and with a spring-catch on one arm of the frame, having a bent or curved arm extending outwardly between said arm of the frame and an adjacent arm of the frame and having its outer end supported on the ring, substantially as described.

LILLIAN STANLEY HILLYER.

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