

(No Model.)

R. A. WOODING.

SHADE RING CLAMP.

No. 273,420.

Patented Mar. 6, 1883.

Fig. 1.

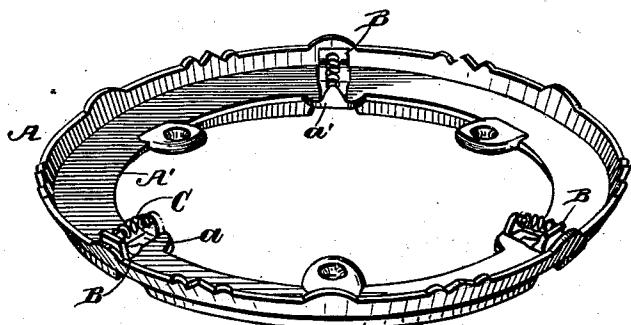


Fig. 2.

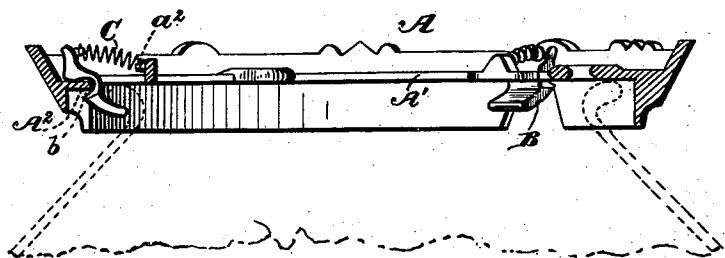
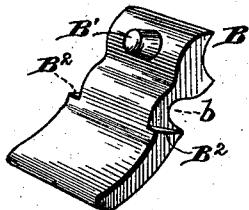


Fig. 3.



Witnesses

Robert Everett.  
George Tylghman

Inventor.

Ralph A. Wooding.

By W. H. Babcock

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# UNITED STATES PATENT OFFICE.

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## SHADE-RING CLAMP.

SPECIFICATION forming part of Letters Patent No. 273,420, dated March 6, 1883.

Application filed January 27, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, RALPH A. WOODING, a citizen of the United States, residing at Kensington, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Shade-Ring Clamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

15 This invention relates to clamps for securing lamp-shades to shade-rings; and it consists, partly, in combining with said rings pivoted clamps and springs, which force these clamps against the neck of the shade.

20 The said invention consists, further, in the peculiar construction of the clamps and of the bearings on which they turn, whereby the action above described is made practicable without attaching the clamps to the shade-ring or providing any gudgeons or pivot-pins therefor.

25 In the accompanying drawings, Figure 1 represents a perspective view of a lamp-shade ring provided with my pivoted spring-pressed clamps. Fig. 2 represents a vertical section through the same, and Fig. 3 represents a detail view in perspective of one of the said clamps.

The same letters of reference indicate the 30 same parts in all the figures.

35 A designates the body of the shade-ring, provided with the usual internal horizontal flange or partition, A', which has at regular intervals openings a, that receive the clamps B. The inner end of each of these openings is closed by a bar, a', having a stud, a<sup>2</sup>, projecting into said opening. These bars and studs are cast with the shade-ring, and so, too, is a rounded bead, A<sup>2</sup>, forming the outer boundary of each 40 opening, and serving as the bearing whereon the clamp is pivoted that turns therein.

45 Each one of the clamps B has a curvilinear recess, b, in its back, which fits upon its bearing-bead A<sup>2</sup>, allowing said clamp to turn for grasping the lamp-shade. The front or inner

face of each clamp is curved, or constructed with inclines so arranged as to be equivalent to curvature, and provided at its upper end with an inwardly-extending stud, B'. A spiral spring, C, in each instance is interposed 55 between bar a and clamp B, its ends surrounding studs a<sup>2</sup> B', and held in place thereby. The office of these springs is to force outward the upper ends of the clamps, and thereby cause the inner ends of said clamps to close upon 60 the neck of the lamp-shade and hold the same suspended. Each clamp is provided with a lateral enlargement of its lower portions, forming shoulders B<sup>2</sup>, which overlap the edges of the opening in which it turns, so that the pressure of the spring will not force said clamp up 65 out of its proper position.

A clamp thus constructed is held at all times very securely in place without any actual attachment to the shade-ring, and turns 70 pivotally with no gudgeons and with no pivot-pin.

Having thus described my invention, what I 75 claim as new, and desire to secure by Letters Patent, is—

1. In combination with a shade ring and springs, a set of shade-clamps turning pivotally within or upon said shade-ring and forced against the shade by the action of said springs, substantially as set forth. 80

2. In combination with a shade-ring having bearing-beads formed upon it, a set of spring-pressed clamps having their backs recessed curvilinearly to turn upon said beads, substantially as set forth. 85

3. In combination with a shade-ring having openings in its horizontal inner flange, a set of clamps pivoted in said openings, and having lateral shoulders below the same, which extend beyond them on each side, and a series 90 of springs which bear against the upper ends of said clamps, and thereby force their lower ends inward, for the purpose set forth.

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

RALPH A. WOODING.

Witnesses:

—DEXTER W. PARKER,  
RALPH A. PALMER.