

O. N. PERKINS.

Shade-Holder for Lamps.

No. 133,885.

Patented Dec. 10, 1872.

fig. 1.

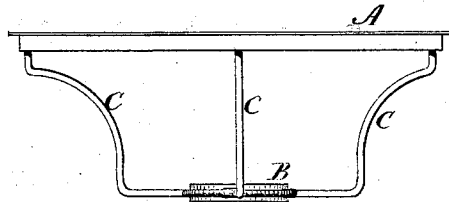


fig. 2.

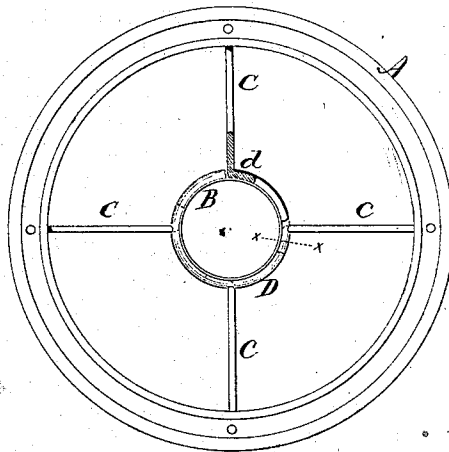


fig. 3



fig. 4



Witnesses.

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ORSON N. PERKINS, OF MERIDEN, CONNECTICUT, ASSIGNOR TO EDWARD MILLER & CO., OF SAME PLACE.

IMPROVEMENT IN SHADE-HOLDERS FOR LAMPS.

Specification forming part of Letters Patent No. 133,885, dated December 10, 1872.

To all whom it may concern:

Be it known that I, ORSON N. PERKINS, of Meriden, in the county of New Haven and State of Connecticut, have invented a new Improvement in Shade-Holder for Lamps; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a side view; Fig. 2, a top view, with a partial section; Fig. 3, a transverse section on line *x x*, enlarged; and in Fig. 4, the process of construction.

This invention relates to an improvement in the construction of shade-holders for lamps. Usually the wires which extend from the ring around the lamp-top to the shade-ring have been attached to the former by extending the wires through the ring and riveting the end, a shoulder having been first formed on the end of the wire for the purpose. To facilitate the operation and more permanently secure the wires is the object of this invention; and it consists in forming the ring which embraces the lamp-top with an annular corrugation, into which the ends of the wires are set, the said ends being previously bent at nearly right angles so as to lie in the corrugations, then closing the metal of the ring down onto the bent ends of the wires, as more fully hereinafter described.

A is the shade-holder ring or plate, of the usual form, which is supported from a ring, B, around the lamp-top by means of wires C, more or less in number, extending from the said ring B up to the ring A. These wires have usually been riveted to each of the two

rings, the ends of the wires formed with a shoulder and extending through perforations in the ring for the purpose. The ends through the ring B must necessarily project somewhat, and it is difficult at that point to rivet the wires so perfectly that they will not interfere with the setting of the ring B onto the lamp-top, and the riveting is necessarily so slight that it renders the wires liable to become detached. To overcome this difficulty I form the ring B, as seen in Fig. 4, with a corrugation, *a*, extending around the ring projecting outwardly, and perforate this corrugation at the point where the wires are to be inserted. The wires at the ends which are to be attached to the ring are bent to the right or left, as seen at *d*, Fig. 2, so as to lie within the corrugation; then, by suitable dies, this corrugation is closed down onto the ends of these wires, as in Fig. 3, forming a head, D, around the ring B, as seen in Fig. 3. This construction prevents the wires from turning, and they cannot be detached from the ring B without destroying the ring. The other ends of the wires are attached to the ring A in the usual manner.

I claim as my invention—

The herein-described shade-holder, consisting of the shade-supporting ring A and ring B, by which it is attached to the burner, and the wires C extending from the ring B up to and supporting the ring A, when the said wires are secured to the ring B by means of an arm turned from the said wires to the right or left and the ring B closed down on the said arms, substantially as described.

ORSON N. PERKINS.

Witnesses:

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