(No Model.)

T. HIPWELL.

LAMP SHADE SUPPORT.

No. 472,790. Patented Apr. 12, 1892.

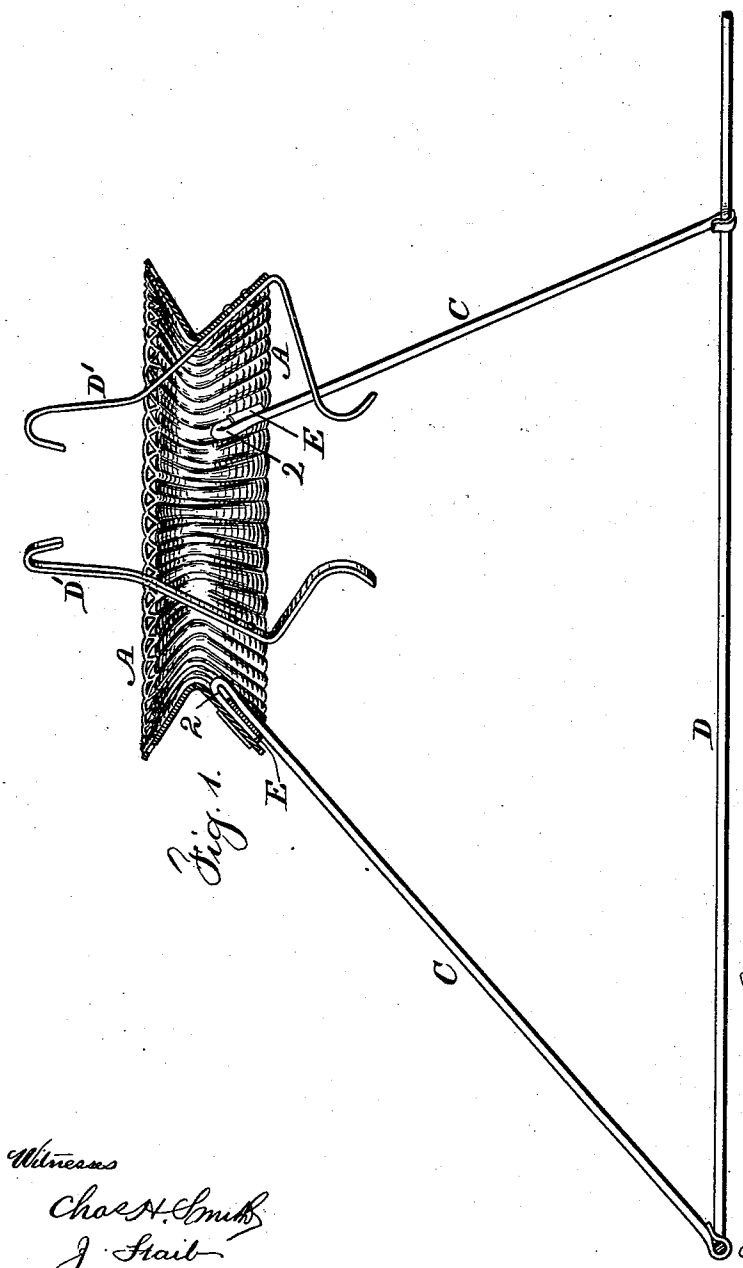

Fig. 1.

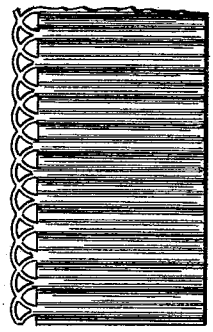

Fig. 3.

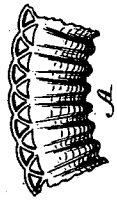

Fig. 2.

Witnesses
Chas. A. Smith
J. Stair

Inventor
Thomas Hipwell
per Lemuel W. Serrell
Atty

UNITED STATES PATENT OFFICE.

THOMAS HIPWELL, OF LONG ISLAND CITY, ASSIGNOR TO THE MANHATTAN BRASS COMPANY, OF NEW YORK, N. Y.

LAMP-SHADE SUPPORT.

SPECIFICATION forming part of Letters Patent No. 472,790, dated April 12, 1892.

Application filed July 2, 1891. Serial No. 398,249. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HIPWELL, a citizen of the United States, residing at Astoria, (Long Island City,) in the county of Queens and State of New York, have invented an Improvement in Lamp-Shade Holders, of which the following is a specification.

Lamp-shade holders have been made of paper or other ornamental materials in a conical form, and these shades have been supported upon a frame-work of wire having a metallic band or crown around the lamp-chimney, and these metallic bands have usually been cut out in the form of a flat ring from a sheet of metal and then stamped up into a double truncated conical form, and in so doing the sheet metal has either to be stretched or compressed, and there is considerable waste in cutting out the ring-shaped blank from the sheet metal. In my present improvements these difficulties are avoided.

In the drawings, Figure 1 is a section of the improved sheet-metal crown to the shade-holder and a portion of the wire frame, and Fig. 2 is a plan view of a portion of the same. Fig. 3 represents the corrugated blank from which the crown is manufactured.

I make use of a strip of sheet metal of slightly greater length than the periphery of the crown at its largest diameter, and this strip is bent up into the form of a hoop and the ends united, and the sheet metal is corrugated by any suitable tool either before or after the sheet metal is joined up to form the ring or short cylinder, and the corrugations run from the top or bottom edges of the ring or hoop and parallel or at a slight inclination to the axis of such ring, and when this ring or hoop is corrugated its diameter corresponds, or nearly so, to the smallest diameter of the completed shade-holding crown, and the edges of the sheet metal of the hoop may either be plain or ornamented with open-work or embossing. In shaping this corrugated ring to the double conical form of the crown shown in Fig. 1 suitable tools are made use of to partially fold or bend the corrugated ring near the middle thereof and spread the top and bottom edges outwardly, thereby partially removing the corrugations of the metal at or near said edges, the corrugations remaining in the middle portions of the crown, where the same is of the smallest diameter. In this manner a cheaper ornamental crown can be made for the shade-holder out of comparatively thin sheet metal, because the corrugations stiffen such metal and also render the same ornamental. In making this corrugated crown out of sheet metal the corrugations can be produced by suitable rollers at the same time that the sheet metal is bent up to the shape of the crown, and the ends of the strip of metal can be soldered or otherwise attached together after bending.

It is usual in shade-holders to provide springs D′ upon the interior of the sheet-metal crown A, which springs have their ends adjacent to the lamp-chimney, and the arms C are made of wire, with eyes at their lower ends for the reception of the wire ring D, forming the lower and largest support for the shade-holder, and at the upper ends these arms C are folded back upon themselves to form hooks 2, that are passed down into the loops E, fastened upon the interior and lower surface of the shade-holding crown. In consequence of these arms being hooked in from the top ends of the loops such arms and the ring D are suspended from the crown, and the parts can be easily separated, so that the arms and ring D will lie flat and occupy but little space in transportation, and they can be hooked into their places in the loops E with facility when the shade-holder is put together for use.

I claim as my invention—

1. The combination, with the shade-holding arms C and ring D, of a sheet-metal crown A, corrugated in the line of the axis of the crown, or nearly so, and bent conically for the reception of the shade, substantially as set forth.

2. The shade-holder having a ring D and arms C, bent as hooks at their upper ends, a crown of sheet metal corrugated parallel, or nearly so, to its axis and bent conically for the reception of the upper end of the shade, and loops upon the crown for the reception of the hooks upon the arms, substantially as set forth.

Signed by me this 29th day of June, 1891.

THOMAS HIPWELL.

Witnesses:
R. TURNER,
W. H. BIRTWHISTLE.