(No Model.)

# W. A. HULL.

## METHOD OF MAKING LAMP ATTACHMENTS.

No. 307,653. Patented Nov. 4, 1884.

*Fig. 1.*

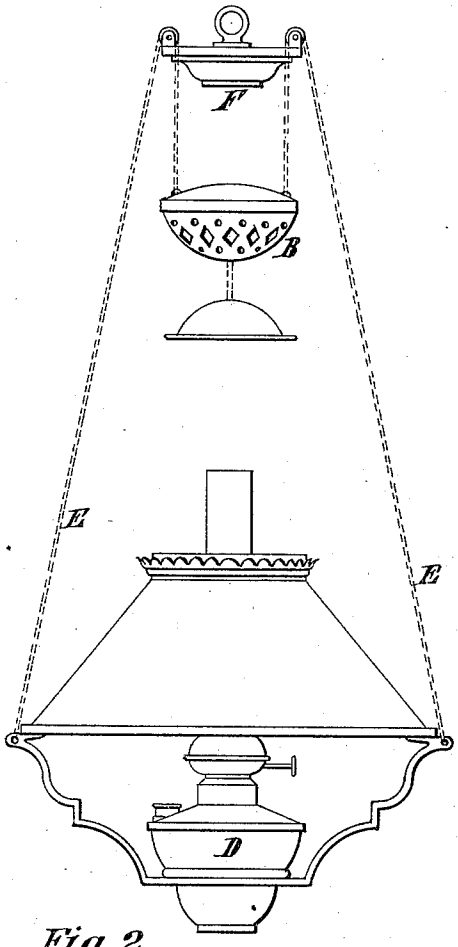



*Fig. 5.*

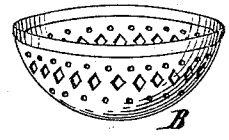



*Fig. 2.*

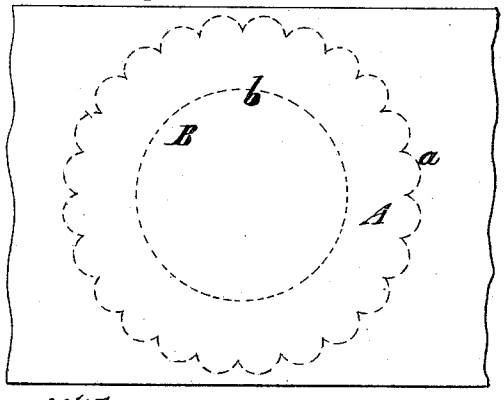



*Fig. 3.*

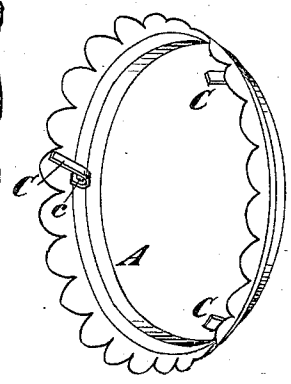
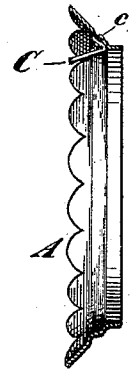



*Fig. 4.*




*Witnesses*
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# UNITED STATES PATENT OFFICE.

WOLCOTT A. HULL, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO THE ANSONIA BRASS AND COPPER COMPANY, OF SAME PLACE.

## METHOD OF MAKING LAMP ATTACHMENTS.

SPECIFICATION forming part of Letters Patent No. 307,653, dated November 4, 1884.

Application filed October 16, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WOLCOTT A. HULL, of New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Lamps, of which the following is a specification.

This improvement relates to those lamps which are suspended by chains and counterbalanced by weights.

An important object of this improvement is to cheapen the manufacture of the shell for the counterbalance-weight and the crowns which are frequently used upon the shades.

To this end the improvement consists in making the counterbalancing-weight of a certain size and shape relatively to the size of the shade-crown, and in cutting the shell out of a piece of metal whose outer portion is used to form the shade-crown, and in subsequently shaping the two parts to suit the taste.

In the accompanying drawings, Figure 1 is a side view of the lamp-fixture. Fig. 2 is a face view of a piece of sheet metal having indicated upon it by dotted lines a shade-crown and shell for a counterbalance-weight. Fig. 3 is a perspective view of the shade-crown. Fig. 4 is a transverse section of the latter, and Fig. 5 is a perspective view of the shell for the counterbalance-weight.

Similar letters of reference designate corresponding parts in all the figures.

Referring first to Fig. 2, the line *a* indicates the outer edge of a crown, A, for a lamp-shade. The line *b* indicates the inner edge of the crown A and the outer edge of shell B for a weight employed to counterbalance a lamp, such as I have shown in Fig. 1, on which the above-mentioned lamp-shade is to be used.

It will be understood that both the crown and shell are to be made of sheet metal—such, for instance, as brass—and that the shell is formed by cutting out a portion of the metal within that portion which is to form the crown. To enable the parts to be thus formed the counterbalance-weight must be of a certain shape and form relatively to the shade. The crown and shell may be stamped and shaped by means of dies or otherwise, so as to have any desired configuration—as, for instance, those shown in the completed articles shown in Figs. 3, 4, and 5. The shell B is to be fitted outside the lower portion of a counterbalance-weight made of iron or other suitable material. The crown A is provided on the inner side with fingers or pieces C of flexible or resilient material. These may be made of sheet metal—such, for instance, as brass—and may be made integral with the crown, or made separately and connected thereto by rivets *c*, as shown.

The lamp D, shown in Fig. 1, is of a well-known type. It is suspended by chains E that pass over pulleys in a hanger, F, and are connected to a counterbalance-weight having an external shell, B.

What I claim as my invention, and desire to secure by Letters Patent, is—

As an improvement in the art of making the crowns and balance-weight shells for lamps, the method—namely, of cutting from a sheet of metal a disk with scalloped edges of a diameter proper for the crown, and from this another disk of a diameter proper for the shell, and molding the annulus so obtained and the disk each to the form proper to subserve the purpose required—substantially as described.

WOLCOTT A. HULL.

Witnesses:
CHAUNCEY G. STEVENS,
THEO. F. VAN ZANDT.