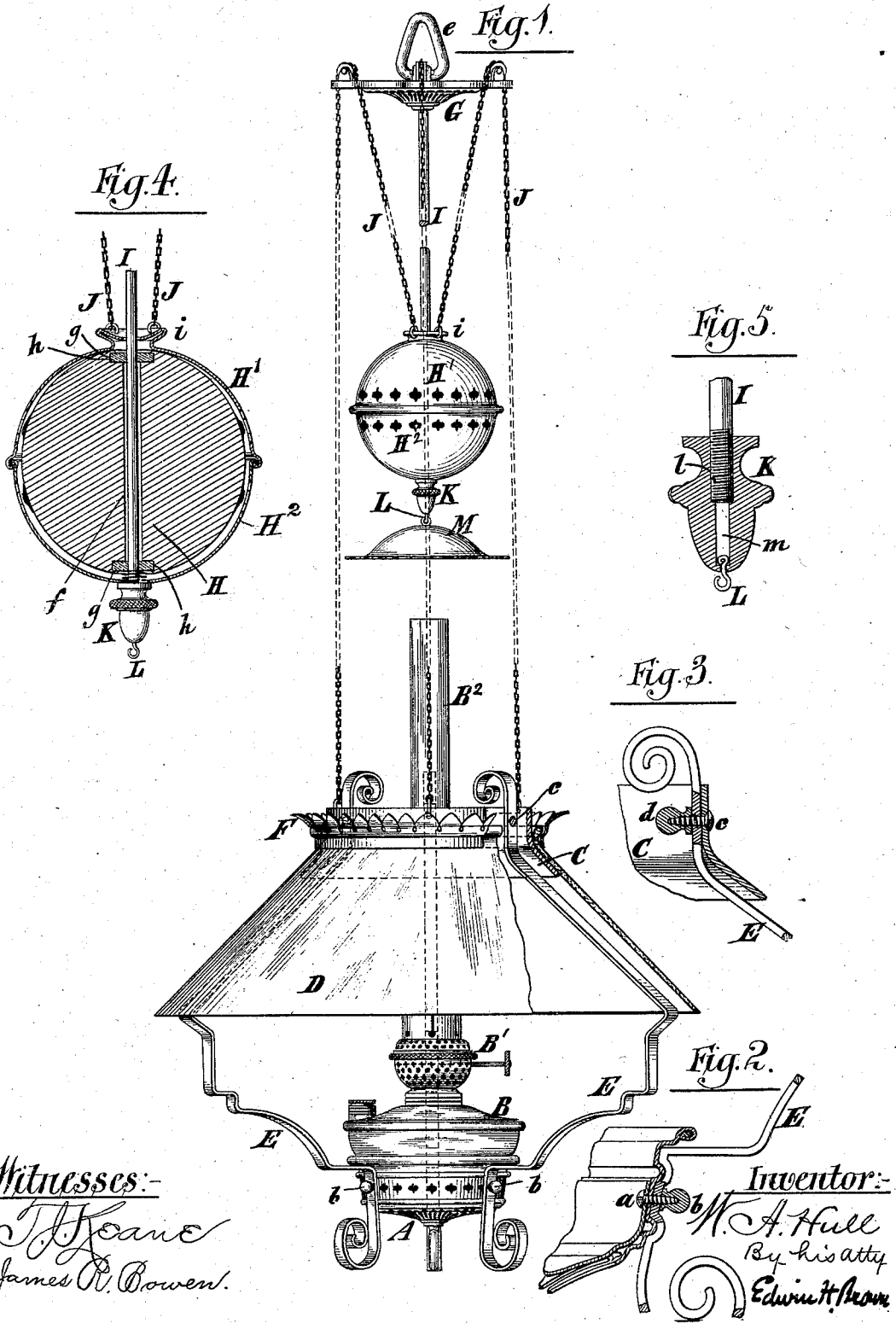


(No Model.)

W. A. HULL.
LAMP.

No. 255,629.

Patented Mar. 28, 1882



Witnesses:-
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UNITED STATES PATENT OFFICE.

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LAMP.

SPECIFICATION forming part of Letters Patent No. 255,629, dated March 28, 1882.

Application filed December 8, 1881. (No model.)

To all whom it may concern:

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

The improvements consist in the combination of a lampholder or support, a ring of sheet metal composed of a cylindric portion and a lower flange-like portion for supporting a lamp-shade placed on its exterior, and arms permanently connecting said holder or support and the upper cylindric portion of the ring. These arms are preferably connected to the outer side of the holder or support and to the inner side of the ring, and the holder may have circumferential ribs upon its exterior, and the arms may be bent so as to grasp said ribs and be secured to the holder or support each by a single screw. The shade-ring above described may have the chains or like devices whereby the lamp is suspended connected to its upper cylindric portion.

The improvements consist in the combination, with a shade in a lamp or other illuminating apparatus, of a ring for supporting the shade when the latter is placed outside it, and an ornamental crown independent of the means whereby the shade-ring is supported and fitting loosely outside the upper part of the shade, whereby the appearance of the lamp is greatly enhanced.

The improvements also consist in the combination of a lamp-reservoir holder composed of an outer part of ornamental metal and an inner part of cheap strong metal fitting closely to it, a shade-support, and arms fastened to both the component parts of the reservoir-holder and fastened to the shade-support.

The improvements also consist in other features hereinafter particularly described and claimed.

In the accompanying drawings, Figure 1 is a sectional side view of a hanging lamp embodying my improvements. Fig. 2 is a section on a larger scale, illustrating the manner in which the reservoir-holder is constructed, as also the way in which it is connected to the arms. Fig. 3 is a sectional view on the same scale, illustrating the manner in which the

shade sustaining ring is made and connected to the said arms. Fig. 4 is a section of the counterbalance-weight and its guide-rod on about the same scale; and Fig. 5 is a sectional view on a still larger scale, illustrative of the counter-balance guide-rod and the manner of attaching the smoke-bell hook thereto.

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

A designates a holder for a lamp-reservoir. It is made of an inner shell of cheap, strong metal—such as iron—and an outer shell of ornamental metal—such as brass—closely fitting the former, so as to be stayed and strengthened by it.

B designates a lamp-reservoir fitting in said holder, and provided with a burner, B', having a chimney, B².

C designates a holder for a shade, D. This holder consists of a ring of sheet metal having a cylindric upper portion and a flange-like or flaring lower portion. This ring is connected to the reservoir-holder by arms E, made of separate pieces of brass or other metal, and here shown as three in number. These arms are fastened to the outer side of the reservoir-holder and the inner side of the ring C. As shown more particularly in Fig. 2, the reservoir-holder is provided with circumferential beads, and the arms are bent so as to grasp these beads, and are secured to the holder by single screws *a*, having flat heads, which bear against the inner shell, and nuts *b*, applied to their outer ends beyond the arms. When the arms are so made to conform to the holder they may be secured by single screws, and will nevertheless be precluded from twisting out of their proper upright positions. The arms are secured to the inner side of the ring C by means of screws *c*, having flat heads bearing against the exterior of the ring, and nuts *d*, applied to the screws beyond the arms.

The shade D may be made of opal glass, and is of conical form. Its upper portion seats itself on the outside of the ring C. Thus supported the shade is in less danger of breakage than when gripped by any outside devices, as it is in a measure free to move and yield to a jar or knock. Indeed the yielding of the sheet-metal ring conduces to its safety. A shade thus

supported will be but little liable to rattle and cannot fall off while being adjusted by a careless person. This means of sustaining a shade is desirable, as it operates well with shades of a great variety of sizes. The concealment by the shade of its supporting devices is a desirable attribute. The interior appearance of the shade is enhanced by this shade-support.

F designates an ornamental crown of metal, fitting loosely on the upper portion of the shade and enhancing its appearance. This crown is entirely independent of the devices which support the shade-ring.

G designates a hanger, which may be attached by means of a loop, *e*, with which it is provided, to a hook on a ceiling or other support. It is provided with pulleys, over which pass chains J, that at one end are fastened to the cylindrical portion of the shade-supporting ring C and at the other to a counterbalance-weight, H H' H², which travels along a guide-rod, I, extending from the hanger. The hanger is sufficiently small to allow the shade to pass over it.

The counterbalance-weight consists of a heavy body, H, of cast-iron or other suitable material, of spherical form, and two exterior shells, H' H², fitting the same. The body H has a hole, *f*, extending diametrically through it, and terminating at each end in a recess, *g*. The hole *f* surrounds the guide-rod, and in each recess *g* is inserted a washer, *h*, of leather or other suitable material, which will bear on the rod without scratching it.

The shells H' H² are made of brass, and formed by spinning or otherwise. They are united at the middle by being creased or folded together.

The shell H' has spun upon it a neck, *i*, to which the upper ends of the chains J are connected.

At the lower end of the guide-rod I is a tip, K, which has a screw-socket, *l*, whereby it is fastened to the end of the guide-rod, and a lower socket or chamber, *m*, of smaller diameter, extending nearly to the end of the tip, and having a small hole at the bottom. In this is contained the shank of a wire hook, L, the hook being formed by bending the wire after it is passed through the small hole in the bottom. This hook supports a smoke-bell, M, over the lamp-chimney.

It will be observed that by my improvements I produce a simple and cheap but very attractive lamp.

The arms E may extend outside the shade, instead of inside, as shown.

Although I have shown herein a shade-holder made of sheet metal and composed of a cylindrical portion and a lower flange-like portion adapted to support a shade, I do not here claim such a shade-holder alone, as it is made the subject of another application for Letters Patent.

What I claim as my invention, and desire to secure by a patent, is—

1. The combination of a sheet-metal shade-

ring consisting of a cylindrical portion and a lower flange-like portion, chains supporting the shade-ring from the cylindrical portion, but leaving the flange-like portion free, arms extending from the cylindrical portion, and a lamp-holder supported by said arms, substantially as specified.

2. The combination of a sheet-metal shade-ring consisting of a cylindrical portion and a lower flange-like portion, chains supporting the shade-ring from the cylindrical portion, but leaving the flange-like portion free, a lamp-holder, and arms extending from the cylindrical portion of the shade-ring to the lamp-holder, but made of separate pieces from both the shade-ring and the lamp-holder, substantially as specified.

3. The combination of a lamp holder or support having circumferential ribs, a shade-support, arms extending from the lamp holder or support to the shade-support and having their inner surfaces bent to grasp the ribs of the lamp holder or support, and a single screw for securing each arm to said holder or support, substantially as specified.

4. In a lamp or other illuminating apparatus, the combination, with a shade, of a ring supporting the shade when the latter is placed outside it, and an ornamental crown independent of the means whereby the shade-ring is supported and fitting loosely outside the upper part of the shade, substantially as specified.

5. The combination of a lamp-reservoir holder composed of an outer part of ornamental metal and an inner part of cheap strong metal fitting closely to it, a shade-support, and arms fastened to both of the component parts of the reservoir-holder and fastened to the shade-support, substantially as specified.

6. In a lamp, the combination, with a rod or like device and a counterbalance-weight fitting the same, of washers of leather or like material affixed to the interior of the counterbalance and fitting the rod or like device, whereby the scratching of the latter by the weight is obviated, substantially as specified.

7. In a lamp, the combination, with a guide-rod for a counterbalance-weight and an ornamental tip provided with a screw-socket for fastening it to the end of the rod, and with a smaller socket extending from the screw-socket downward, of a hook for a smoke-bell inserted in the last said socket and extending through the lower end of the said tip, substantially as specified.

8. In a lamp, a counterbalance-weight consisting of a heavy body, an ornamental exterior shell, made in two parts, united together, the upper having formed on it by spinning or otherwise a neck, to which may be conveniently attached the chains or like devices whereby the weight is sustained, substantially as specified.

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