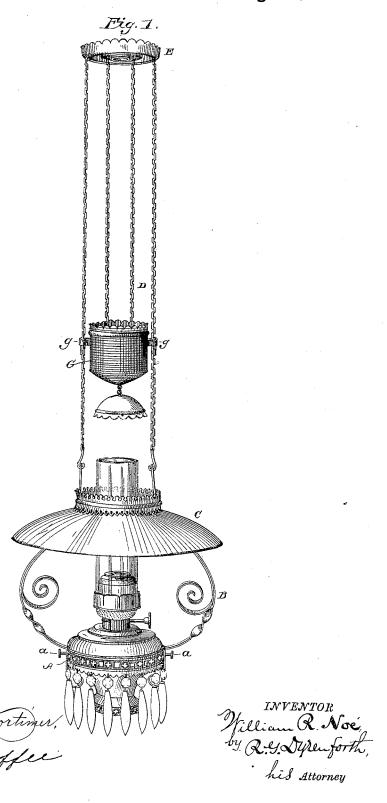
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SUSPENSION LAMP.

No. 348,291.

Patented Aug. 31, 1886.

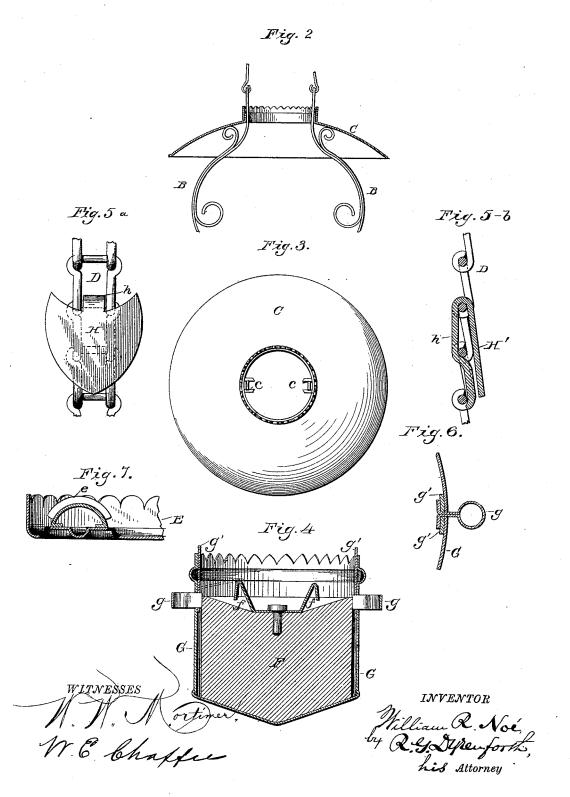


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SUSPENSION LAMP.

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United States Patent Office.

WILLIAM R. NOÉ, OF NEWARK, NEW JERSEY, ASSIGNOR TO HOLMES, BOOTH & HAYDENS, OF WATERBURY, CONNECTICUT.

SUSPENSION-LAMP.

SFECIFICATION forming part of Letters Patent No. 348,291, dated August 31, 1886.

Application filed July 29, 1885. Scrial No. 172,965. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. Noé, a citizen of the United States, residing at Newark, in the county of Essex and State of New 5 Jersey, have invented certain new and useful Improvements in Lamps; 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.

The invention in this case relates to lamps. The object is to produce a lamp throwing a powerful and concentrated light below it, and thus suitable for halls, libraries, stores, &c., that shall be of simplified and artistic construction, of artistic and attractive design, and that shall be convenient and effective in use, and shall be capable of having its parts readily detached from each other for the purpose of packing in a compact form; and with these objects in view my invention consists in the various novel details of construction, clearly hereinafter set forth and claimed.

In the accompanying drawings, forming part of this specification, like letters of reference

indicate corresponding parts.

Figure 1 is a perspective view of a hanging or library lamp embodying the invention. Fig. 2 is a view of the reflector resting upon 30 the harp, the reflector being shown in section and the harp in elevation. Fig. 3 is a plan view of the reflector, showing the guides or retaining ways for the reflector upon the harp. Fig. 4 is a vertical section of the weight-cup, or 35 shell and weight, showing the hooks upon the weight by which it is attached to the chain and the lugs upon the shell to be bent down over the weight to retain this in place in the shell and cause the shell to move simultaneously with it, 40 also showing the guides or guide-rings for the chain. Fig. 5° is an elevation of a part of the chain and the stop, being a side view showing the stop for the guide-rings on the weightshell. Fig. 5^b is a longitudinal section of the 45 same, showing the manner of attaching the stop to the chain. Fig. 6 is a horizontal section of a portion of the shell, showing the manner of attaching the guides and lugs to the shell. Fig. 7 is a detail sectional view of the hanger, 50 showing the bridges for the chains.

A designates a holder, band, or ring for sus-

taining the reservoir or fount, which may be secured therein by set - serews a. To the holder is attached the harp B, and upon the harp rests the reflector C. This reflector is 55 of polished metal, of silvered glass or of any other highly-reflecting substance, and is in the situation of a shade, really supplanting or taking the place of a shade alone as such, and combining in itself the double functions of a 60 shade and a reflector. It will be understood that the reflector will have an open top of a diameter sufficient to prevent the lamp-chimney passing through the same from heating it. When the reflector is in position upon the 65 harp, the upper ends of this pass up through it, and to insure its taking a proper position upon the harp and being so retained it is well to provide the reflector with guides or retainingways c, by which it slides vertically upon the 70 harp until restrained by an expansion of the same, and by which it is prevented from turning and particularly from canting. The reflector may be of any suitable design and of highly artistic finish.

To the upper ends of the harp may be attached, as by the hooks shown, the chain or chains, cord or cords D, which pass upward to the hanger or top piece, E, through guides or guide-rings g on the shell G, thence over 80 grooved or flanged bridges e, with which it is provided near its circumference and at points diametrically opposite to each other, and thence downward to the balance-weight F in the shell G. Here the chains are attached to 85 hooks f, secured in any suitable manner to the weight or as shown, and after attachment the hooks are bent over to hold the chains securely. To retain the weight in the shell, lugs g', being flexible strips of metal attached to the inner 90 surface of the shell by the inner ends of the shanks of the guide-ring g, which pass through the shell and through the lower ends of these lugs, being then bent outward and flatly against the lower ends of the lugs, thus holding them 95 firmly against the shell, as shown in Fig. 6, are turned downward and inward over the weight, whereby the weight and shell are held together, and, moving, move together. By the provision of these lugs the weight is 100 retained without having to bend the upper part of the shell, thus leaving it unmarred and

free to any desired extent and for any desirable ornamentation. The weight-cup and weight are restrained from falling too low by stops H on the outer chain, against which 5 stops the guide-rings g strike when the weight cup or shell has reached its lowest desirable point. These stops may be of any suitable form and may be adjustably attached below the guide-rings alone, or above as well as be-10 low the guide-rings, to regulate the rise and fall of the lamp that is to determine the distance which it shall be lowered and raised; but in every case they must be exactly opposite each other—that is to say, at the same dis-15 tance from the ends of the chain or from the ends of the chains of equal length.

In practice the lamp shown in Fig. 1 of the drawings can be lowered seventeen inches.

In the present case the stops are shown in the form of a small ornamental shield, and their manner of attachment to the chain is peculiar. Each stop has integral with it and rising from its upper edge a ribbon-shaped piece of metal, h, which is then bent backward, forming a pendent hook at the back of the stop. The end of the ribbon-shaped piece, when bent downward, may or may not project somewhat below the lower edge of the stop.

The manner of attachment of the stop to the chain is as follows: The ribbon-shaped piece having been bent downward is hooked over a bar of one of the links, and the end is then drawn outward between two links farther down, whereby its central portion is bent against the inner surface of an interposed linkbar, one below that over which the strip is first hooked, and its point rests against the outer surface of another link bar still farther

down.

It will be seen that the lamp is easily put together and that the parts are readily detachable, so that the lamp is of ready use, and, complete, can easily be packed in a small compass without danger of breakage.

The lamp may be finished in gold-bronze, 45 nickel, brass, or any other suitable metal or combination thereof.

The design is attractive and artistic, and to the band or ring may be hung pendants, and to the weight cup or shell a smoke-bell, as 50 shown

Having thus fully described my invention, what I claim, and desire to secure by Letters

Patent, is-

1. A library or extension lamp provided 55 with a reflector in the position of, and to take the place of, a shade, the said reflector being provided with attached rigid open guides at its interior upper part, in combination with projections on the harp, substantially as described.

2. In combination with a weight cup or shell, G, the flexible lugs g', for holding the

weight, substantially as described.

3. In combination with a weight cup or 65 shell, G, the guide-rings g, and the flexible lugs g', attached and held to the shell by the ends of the guide-rings which pass through the shell and lugs and are bent, substantially as described.

4. The herein-described hanger for lamps, provided with grooved ridges for the reception of the supporting cords or chains, sub-

stantially as described.

5. In a hanging lamp, the combination, with 75 the supporting-chains thereof, of the stops H, having a ribbon-shaped piece or hook, h, the said stop being applied to the chain by weaving the piece or hook h into the links thereof, substantially as described.

In testimony whereof I affix my signature in

presence of two witnesses.

WILLIAM R. NOÉ.

Witnesses:

HENRY C. ADAMS, J. A. HARRIS.