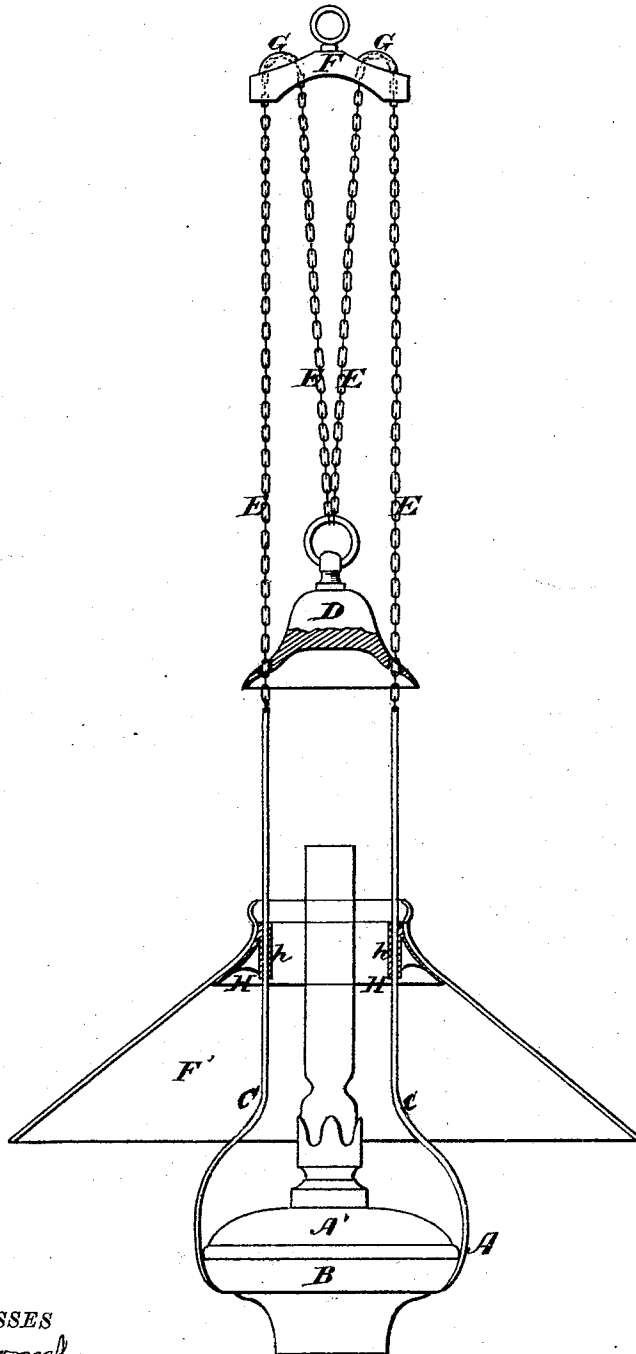


J. REINHOLD.
Hanging-Lamps.

No. 147,170.

Patented Feb. 3, 1874.



WITNESSES
C. H. Brown
J. L. Ellsworth

By

INVENTOR
Joseph Reinhold.
J. L. Ellsworth
his Attorneys.

UNITED STATES PATENT OFFICE

JOSEPH REINHOLD, OF NEW YORK, N. Y.

IMPROVEMENT IN HANGING-LAMPS.

Specification forming part of Letters Patent No. **147,170**, dated February 3, 1874; application filed November 20, 1873.

To all whom it may concern:

Be it known that I, JOSEPH REINHOLD, of the city, county, and State of New York, have invented a new and useful Improvement in Hanging-Lamps; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my invention.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention relates mainly to vertically-adjustable hanging-lamps; and it has for its object to provide for public use a device for supporting and adjusting a hanging-lamp and its shade, which shall be cheap and simple in construction, neat in appearance, and convenient in operation. To these ends the invention consists in the construction of hanging-lamps, as hereinafter more fully set forth.

In the drawings, A represents the lamp-holder, consisting of a ring, B, provided with two rods, C, extending upward at each side, said rods being curved inward for about half their length, and from thence extending upward vertically parallel with each other. D represents a metallic smoke-bell, of sufficient weight to counterbalance the holder A and lamp A'. The smoke-bell is connected by chains E E with the ends of the rods C of the lamp-holder, the chains passing upward through and over a cross-piece, F, suitably suspended from the ceiling of a room, and from thence downward through orifices in the edges of the bell, and hold the latter in place over the center of the lamp. The cross-piece F is provided at its ends with grooved stationary segments G, over which the chains pass. H represents a ring having a beveled or curved periphery, adapted to support the shade F', and provided on its interior with sockets *h* *h*, located on opposite sides. These sockets inclose the parallel portions of the rods C of the lamp-holder, and slide thereon, so as to raise or lower the ring and shade.

It will be seen that the lamp is raised by lowering the smoke-bell, and vice versa, the weight of the bell counterbalancing that of the lamp. The latter, however, is liable to vary slightly in weight in proportion to the quantity of oil it contains. This variation is compensated for by the friction of the chains

E on the stationary segments G, and to some extent in passing through the orifices in the smoke-bell; hence the lamp and bell will always remain in the relative positions in which they are left. In case an unusually heavy shade should be employed, ornamental metallic tassels or pendants may be attached to the bell to increase its weight. The chains E hold the bell directly over the lamp, so that it cannot become displaced. It is therefore as efficient as a glass or porcelain bell, such as is in common use, and is obviously more economical, constituting as it does a combined weight and smoke-bell, and not being liable to break. The shade-supporting ring H, being beveled or curved outward and downward from its upper edge, is adapted to hold shades of different sizes, and should be made of white metal, or provided with an inner coating of such color as will reflect the light. The ring is made of small diameter at its upper edge, so that the light from the lamp is to a great extent intercepted and reflected back, while the sliding sockets *h* allow the shade to be adjusted vertically.

I am aware that a tube surrounding and sliding on a gas-tube, and provided with tubular arms having two gas-burners at their extremities surrounded by shades, the sliding tube carrying the gas-jets being balanced or counterpoised by two weighted smoke-bells attached to cords or chains, which pass over pulleys, and are connected with the sliding tube, have heretofore been employed; and I therefore lay no claim to such invention, which requires the employment of two gas-jets, two smoke-bells, and a sliding tube, and is more complicated and expensive than my construction.

I claim as my invention—

1. The suspended cross-piece F, having stationary grooved segments G G, in combination with the chains E E, lamp-holder A, and smoke-bell D, substantially as described.

2. The smoke-bell D, provided with perforations near its lower edge, in combination with the chains E E, supporting cross-piece F, and lamp-holder A, substantially as described.

JOSEPH REINHOLD.

Witnesses:

S. D. THOMPSON, Jr.,
J. G. GRANT.

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