

Center-Slide Drop-Lights.

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IMPROVEMENT IN CENTER-SLIDE DROP-LIGHTS.

Specification forming part of Letters Patent No. **139 123**, dated May 20, 1873; application filed February 6, 1872.

To all whom it may concern:

Be it known that I, CHARLES DEAVS, of the city, county, and State of New York, have invented an Improvement in Center-Slide Drop-Lights, of which the following is a specification:

This invention consists in a novel combination and arrangement of parts in a gas-chandelier, in which there is employed one or more stationary branch lights and a center drop-light, the latter controlled in its movement by a spring drum or pulley, (one or more,) arranged in a case affixed to the main stem of the chandelier, whereby a chandelier of a new and improved construction is obtained.

In the accompanying drawing, Figure 2 is a horizontal section of a gasalier constructed according to my invention; and Fig. 1 is a vertical section of the same.

Similar letters of reference indicate corresponding parts in both figures.

A is the main stem of the gasalier, consisting of a pipe, the lower end of which is screwed into the distributor B, from which extend branch pipes C C, communicating with the branches of the gasalier. Into the bottom of this distributor a pipe, D, forming a continuation of the stem, is screwed. A collar, E, is secured to this pipe D by being driven thereon, or in any other suitable manner. To opposite sides of this collar the spring-barrels G G are pivoted by pins F F, which are screwed into or otherwise firmly attached to the said collar, and upon which the said barrels turn freely. The said barrels are flanged at their edges, and constitute pulleys for the reception of cords S S, which are attached to the arms *b b*, provided on the lower part of the center slide or tube H. They have arranged within them convolute springs I I, which are secured at one end to the interior of the barrels themselves, and at the other to the screws forming their pivots or axles. The body or center piece J of the gasalier is supported by means of branch pipes C C, passing through holes in it, and it surrounds and conceals from view the spring-barrels G G, but may be supported in any other suitable manner by which it may be

made to conceal the said barrels. In the bottom of the body there are provided holes *a a* for the passage of the cords S S. What is called the "harp," which carries the drop-light burner and shade, is attached to the center slide H, below the arms *b b*.

As the drop-light is drawn down, the cords unwind from the spring-barrels, and produce the winding or unwinding of the springs therein, and the weight of the center slide and its attachment is thereby sustained. When the drop-light is raised, the reverse operation of the springs effects the rotation of the spring-barrels, winds the cords up, and still supports the center slide and attachments.

From the foregoing description it will be seen that I produce a gas-chandelier in which there is combined stationary branch lights, (one or more,) a drop-light, and a spring drum or pulley (one or more) for operating the drop-light, and so arranged that the cords connecting said spring-drum with said drop-light arc, for the most part, concealed within an inclosing-case attached to the main stem, thereby leaving the upper part of the gasalier unencumbered with cords or other devices, which detract from its comely appearance.

Claim.

1. The combination, in a gasalier, of the inclosing-case J, the distributor B, the stationary branch-light ducts C, one or more, and the drop-light duct H, and the spring drums or pulleys G, and cords S, substantially as herein specified.

2. The relative arrangement of the inclosing-case J, spring drums or pulleys G, cords S, and center drop-light duct H, whereby the said cords S are substantially concealed within the case J when the drop-light is not drawn down for use, substantially as herein specified.

3. In a drop-light gasalier, the combination of the spring drums or pulleys G, one or more, with the drop-light duct H, when the latter is arranged to slide within and not upon the main supply-stem A, substantially as herein specified.

4. The combination in a gasalier of the following elements or parts: A supply-stem, A, a distributor, B, branch arms C, (one or more,) for conveying gas to stationary branch lights, sliding pipe H, for conveying gas to a center drop-light, spring drums or pulleys G, one or more, provided with cords S for regulating

the relative position between the stationary light or lights and the drop-light, substantially as herein specified.

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Witnesses:

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