

R. CORNELIUS.

Drop-Lights for Chandeliers.

No. 140,348.

Patented July 1, 1873.

FIG I.

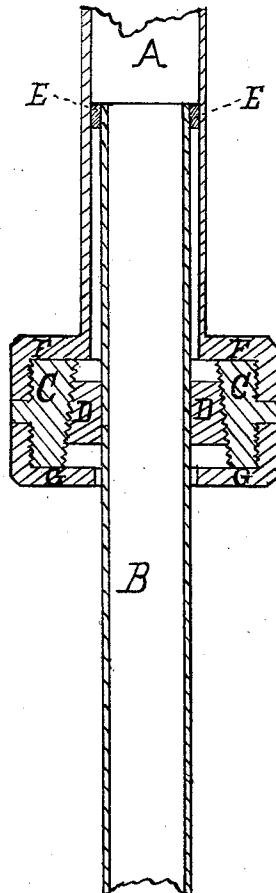
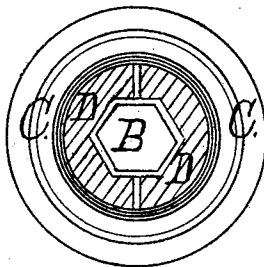


FIG II.



WITNESSES.

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IMPROVEMENT IN DROP-LIGHTS FOR CHANDELIERS.

Specification forming part of Letters Patent No. **140,348**, dated July 1, 1873; application filed April 1, 1873.

To all whom it may concern:

Be it known that I, ROBERT CORNELIUS, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Slide-Chandeliers; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing which forms a part of this specification, and in which—

Figure 1 is a vertical longitudinal section of my improvement through the center, displaying the entire internal mechanism. Fig. 2 is a bottom view of the cone bed-box C, the cap G being removed.

Similar letters of reference indicate corresponding parts in both the figures.

My invention has for its object the ready lengthening or shortening of the drop-lights of chandeliers, or of the chandeliers themselves.

The arrangement of my contrivance is as follows: A is the main pipe of a chandelier. Situated upon said main pipe A, at any convenient point above, below, or within the canopy, and fashioned of any substance, in any ornamental or other design, is a cone-bed box, C, whose function will be hereinafter described. Sliding up and down within the main pipe A is a sliding pipe, B, packed gas-tight at its upper extremity within the main pipe A by means of any suitable packing, E, to whose lower extremity is attached any description of gas-fixture desired. This sliding pipe B is an ordinary gas-pipe of hexagonal section; or it may be made of any polygonal, non-circular, oval, corrugated, square, irregular, or other section; or may be provided with one or more ribs upon its exterior contour, so fashioned for purposes hereinafter to be described. The interior of the cone-bed box C is provided with a conically-truncated aperture centrally located, and provided with a screw-thread, whose least interior diameter is greater than the exterior diameter of the sliding pipe B. A collar of metal, D, of the form of a section of a truncated cone, (provided upon its exterior contour with a screw-thread by which it takes into the thread of the cone-bed box C,) fits within the cone-bed box.

Said collar D is laterally divided into halves or other fractional divisions, and is provided with a central aperture, of a section exactly corresponding to that of the sliding pipe B which passes through it, whatever the section of that pipe may be. A cap, F, attached to the main pipe A, fits over and incloses the top of the cone-bed box C. A cap, G, provided with a central circular aperture, through which the sliding pipe B passes freely, screws down upon the bottom of the cone-bed box C, conceals the internal mechanism, and prevents the collar D from being unscrewed beyond a certain point.

The arrangement of my invention is as follows: The sliding pipe B is slid through the collar D, and within the main pipe A the collar is screwed into its bed within the cone-bed box C, and the cap G screwed down home. The sliding pipe B and fixture attached thereto are then rotated slowly to the right, whereby the collar D, being of a corresponding irregular section to that of the pipe B, is rotated likewise by it, and is screwed and wedged down into its conical bed, and being in halves or other fractional parts, likewise in such action compressed tightly around the sliding pipe B, binding it by friction and pressure very firmly in position. When it is desired to alter the height of the pipe, the pipe is rotated to the left, whereby the collar is relaxed, and then pushed up or down to the desired point, and again rotated to the right and bound in place at the desired point.

I hold that my invention is simple and easy of construction, neat and compact in appearance, effective in operation, not liable to get out of order, cheap of manufacture, and calculated for general public utility.

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

The combination and arrangement, in a chandelier, of the pipe E, the sliding pipe B, the collar D, the cone-bed box C, and the cap G, formed, combined, and operating for the purposes and in the manner hereinbefore substantially set forth.

ROBERT CORNELIUS.

Witnesses:

CHAS. D. COX,
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