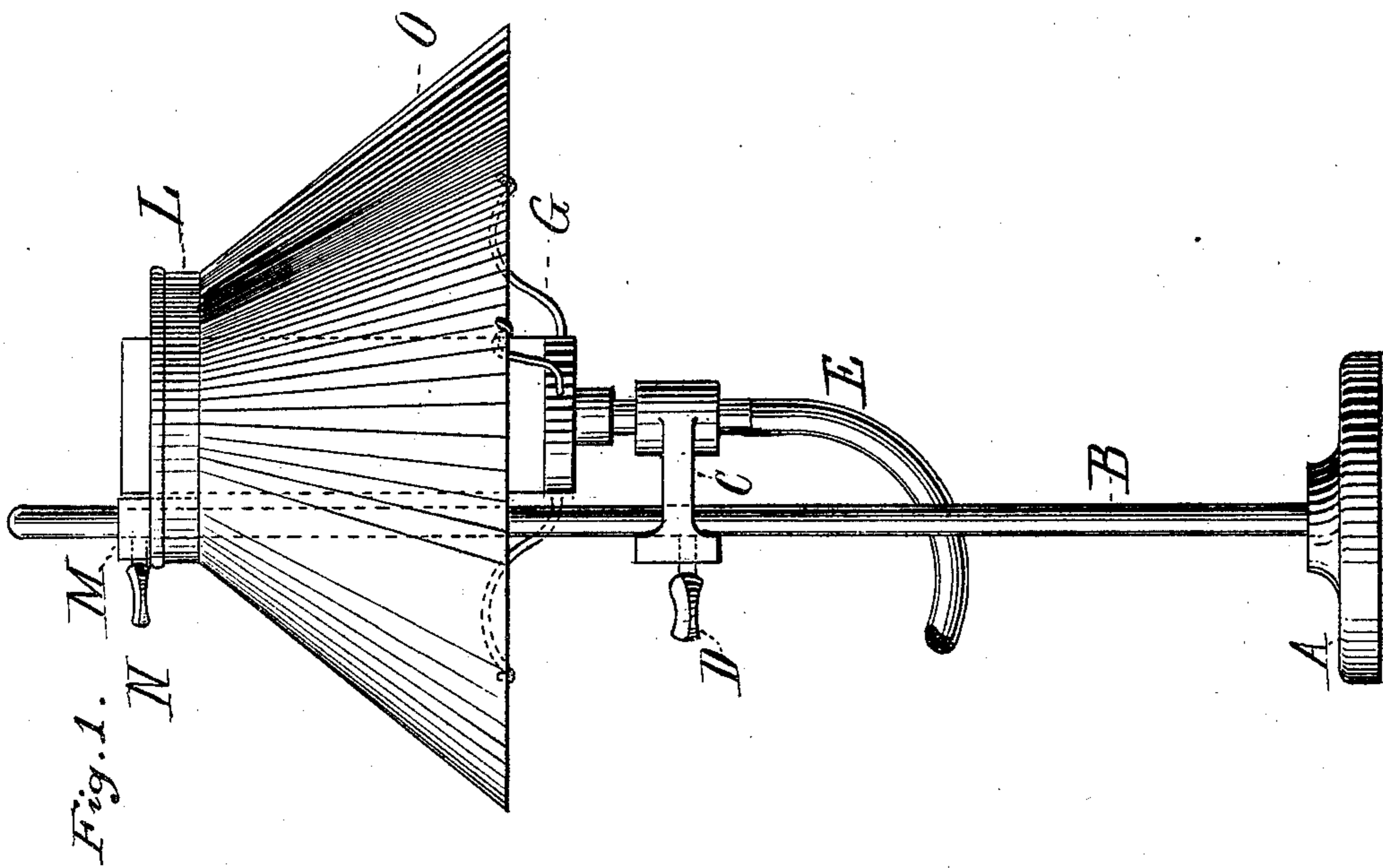
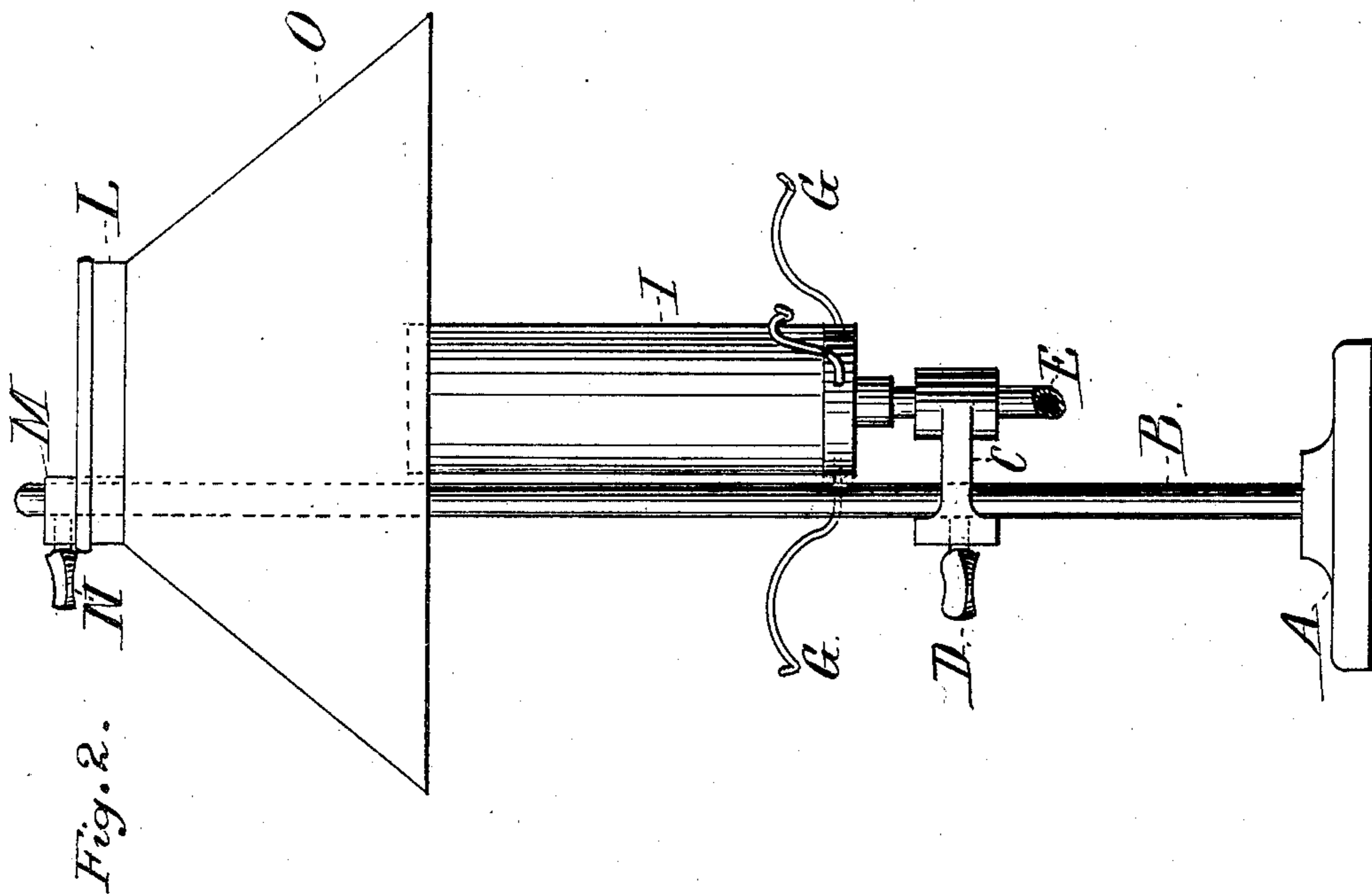


R. M. SHOULS.
DROP-LIGHT.

No. 170,779.

Patented Dec. 7, 1875.



Witnesses
G. B. Boyle
Horace Baldwin

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UNITED STATES PATENT OFFICE.

RICHARD M. SHOULS, OF NEW YORK, N. Y.

IMPROVEMENT IN DROP-LIGHTS.

Specification forming part of Letters Patent No. **170,779**, dated December 7, 1875; application filed October 11, 1875.

To all whom it may concern:

Be it known that I, RICHARD M. SHOULS, of the city, county, and State of New York, have invented a new and useful Improvement in Drop-Lights; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing, forming a part of this specification.

Heretofore, to provide for the vertical adjustment of the burner in drop-lights, the same has been attached to lazy-tongs, the arms thereof forming conduits for the gas, a cord and weight being provided to raise and lower it; or it has been secured to a tube sliding vertically in a packed cylinder; or the burner has been attached to a hollow arm working adjustably over a vertical rod, secured to a proper base, said arm being of sufficient length to support the shade out of contact with the vertical rod. The two former devices are expensive to manufacture and liable to get out of order easily. The latter device, having most, if not all, the weight on one side, is easily upset, especially when the burner is much elevated. In none of them are means provided for conveniently raising the shade and retaining it in any desired position, independently of the burner, to regulate the intensity of the light or flood the room with it.

The object of my invention is to produce a drop-light, the gas-burner and shade of which can be adjusted vertically, either independently of each other or together, to regulate the amount and elevation of the light, and which will not readily topple over; and it consists in the devices hereinafter more fully described and claimed.

Figure 1 is a side elevation of a drop-light embodying my invention. Fig. 2 is a side elevation of the same, showing the shade elevated to flood the apartment.

A is a stand of any shape or configuration desired, upon which is secured a rod, B, of any desired height or diameter. One end of an arm, C, encircles said rod B, and is adjustable thereon, being held in any desired position by means of the set-screw D. The other end of said arm is provided with means for securing the common elastic hollow tube E thereto, and is recessed to receive and retain

an Argand or other gas-burner. Arms G may be secured to the burner to support the shade, or they may be fastened to a ring fitting over the burner; or any of the well-known means for supporting the shade may be used.

The openings in the top of the shade O and the chimney I are of such relative diameters as to leave a sufficient space between the two to permit the rod B to freely pass between them, as shown in Fig. 1.

By this construction the weight of the arms, tube, burner, and shade is so near the axis of the rod B as to render the drop-light almost balanced, and not easily overturned.

A ring, L, is provided with a collar, N, which is movable upon the vertical rod B, a set-screw, M, securing it rigidly in any desired position. The top of the shade O is secured to this ring in any convenient manner.

The shade is thus rendered adjustable independently of the burner, and can be supported without the use of the arms G.

The drop-light thus constructed permits the gas-burner to be placed at an elevation convenient for reading or work, allows the shade to be elevated and retained above the burner to permit the light to flood the room, and obviates the objection incident to the third class of drop-lights above enumerated, of being easily overturned.

Having thus fully described my invention and the merits it possesses, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a rod, B, and shade O, the former passing through the latter, and an arm, C, to which the burner and elastic tube are attached, and by which they are supported, substantially as shown and described.

2. The combination of a shade, O, a vertically-adjustable ring, L, and rod B, substantially as shown and described.

3. The combination, with a shade, O, and an adjustable ring, L, of an adjustable arm, C, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RICHARD M. SHOULS.

Witnesses:

C. C. BOYLE,

HORACE BALDWIN,