

(No Model.)

E. T. MUELLER.
ELECTRIC LAMP COVER AND SWITCH.

No. 462,571.

Patented Nov. 3, 1891.

Fig 1

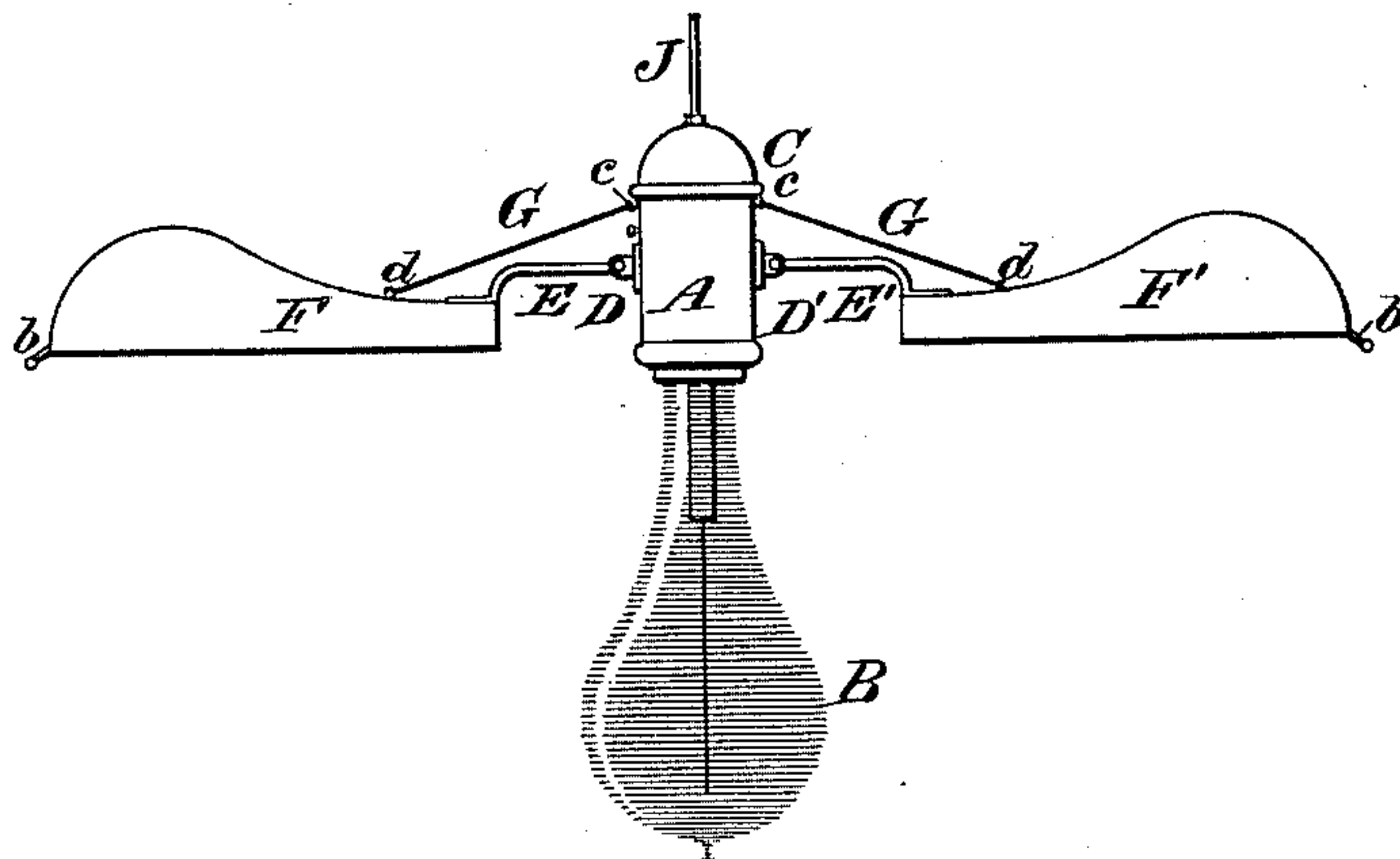


Fig 2

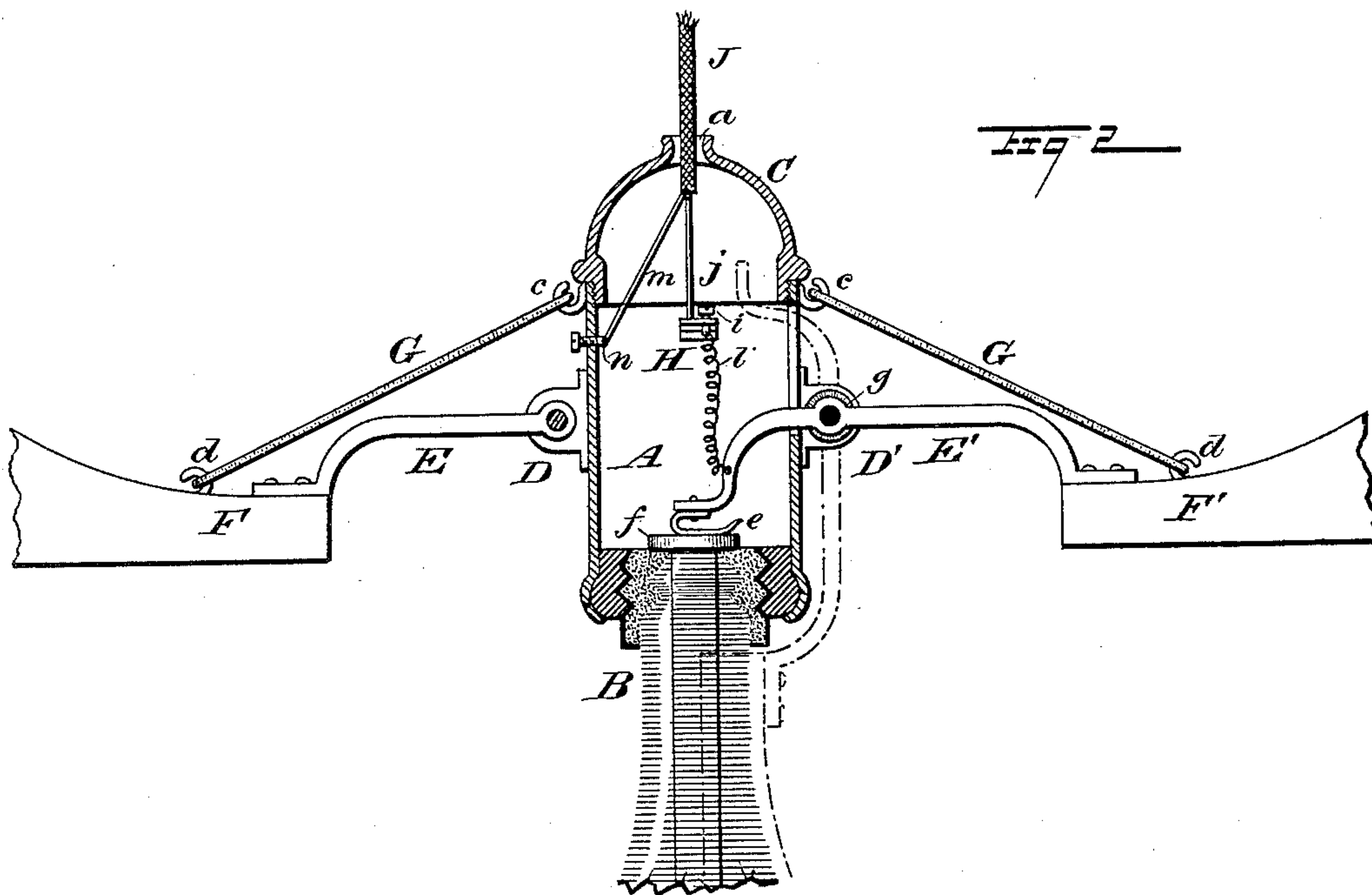


Fig 3

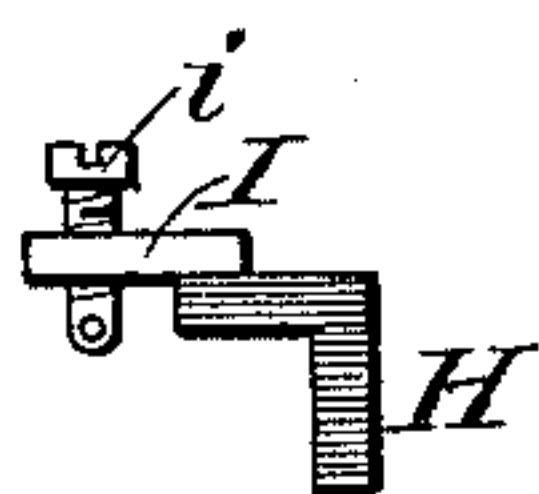


Fig 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

EMIL T. MUELLER, OF LA CROSSE, WISCONSIN.

ELECTRIC-LAMP COVER AND SWITCH.

SPECIFICATION forming part of Letters Patent No. 462,571, dated November 3, 1891.

Application filed April 30, 1891. Serial No. 391,047. (No model.)

To all whom it may concern:

Be it known that I, EMIL T. MUELLER, of La Crosse, in the county of La Crosse and State of Wisconsin, have invented a new and Improved Electric-Lamp Cover and Switch, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a side elevation of a lamp to which my improvement has been applied. Fig. 2 is an enlarged longitudinal section. Fig. 3 is a detail view of the insulated wire-receiving bracket, and Fig. 4 is a detail view of the insulation of the joint of the cover-arm.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to provide an electric-lamp cover which will inclose and protect a lamp, combined with arms for supporting the covers, one of the arms serving as a switch for turning the current on or off the lamp.

My invention consists in the construction and arrangement of parts hereinafter described and claimed.

The socket A is adapted to receive the lamp B and to form the electrical connection with the lamp-base in the usual way, either by a screw-thread, as shown in the drawings, or by any of the well-known methods of forming this connection. The opposite end of the socket is closed by a vulcanite cap C, having on the top thereof a central aperture *a*.

In ears D D', projecting from diametrically-opposite sides of the socket A, are pivoted the arms E E', to the outer ends of which are attached the lamp-covers F F'. The extremity of each cover is provided with a short stud *b*, terminating in a knob, the two studs being arranged to pass each other and lock as the cover is closed upon the lamp. Hooks *c* project from opposite sides of the socket A and similar hooks *d* project from the covers F F'. Springs G, of elastic rubber or other suitable material, are connected with the hooks *c* *d* and tend to hold the covers in an elevated position, as shown in Figs. 1 and 2.

The arm E', which is prolonged, is curved toward the lamp-base and provided at its extremity with a contact-spring *e*, which is adapted to form an electrical contact with a button *f* on the base of the lamp B. An in-

ulating-bushing *g* is inserted in the arm E at its pivotal point, and the arm is further insulated by a washer *h*, placed on the bushing, the bushing and washer serving to separate the arm E electrically from the ears D', in which it is pivoted.

To the wall of the lamp-socket is secured a bracket H, of insulating material, to which is attached a metallic arm I, carrying a metallic screw *i*. To the arm I is attached one strand *j* of the flexible conductor J, and in an aperture in the end of the screw *i* is inserted one end of a metallic spring *l*, the other end of which is connected with the arm E'. The other strand *m*² of the conductor J is inserted in an aperture in the end of the screw *n*, passing through the wall of the socket A.

When the covers F F' are closed together upon the lamp B, the contact-spring *e* is withdrawn from the button *f* and the circuit through the lamp is broken; but when the covers are open and held in the position shown in the drawings by the springs G the contact-spring *e* touches the button *f* and the current flows from the conductor J through the strand *j*, arm I, screw *i*, spring *l*, arm E', spring *e*, button *f*, the filament of the lamp B to the socket A, and thence through the screw *n* to the strand *m* of the conductor J.

By means of this construction the covers can never be closed upon the lamp while the lamp is burning, and the current is always turned onto the lamp when the covers are open.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the lamp B and lamp-socket A, of the covers F F', the arm E', prolonged within the socket A and provided with the contact-spring *e*, and the electrical connections, substantially as specified.

2. The combination, with the lamp-socket A, adapted to receive the lamp B, of the cover F, the arm E, the cover F', the insulated arm E', provided with the contact-spring *e*, the springs G, and the electrical connections, substantially as specified.

EMIL T. MUELLER.

Witnesses:

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