(No Model.)

J. E. TITUS.

EXTENSIBLE BRACKET FOR ELECTRIC LAMPS.

No. 446,037. Patented Feb. 10, 1891.

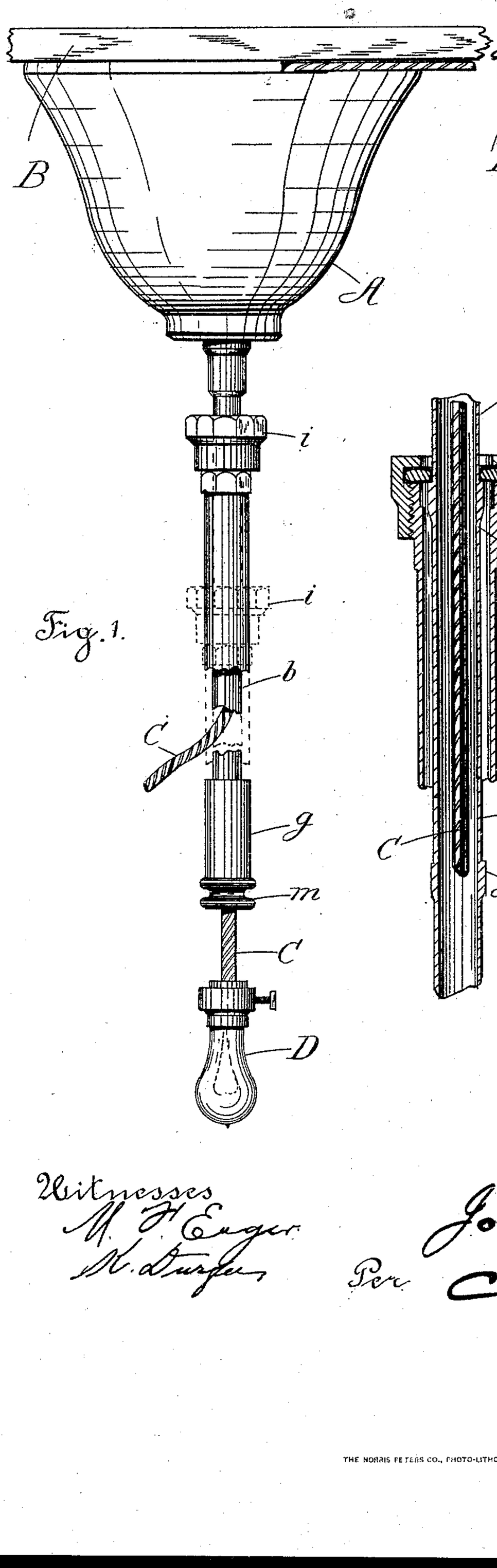

Fig. 1.

Fig. 3.

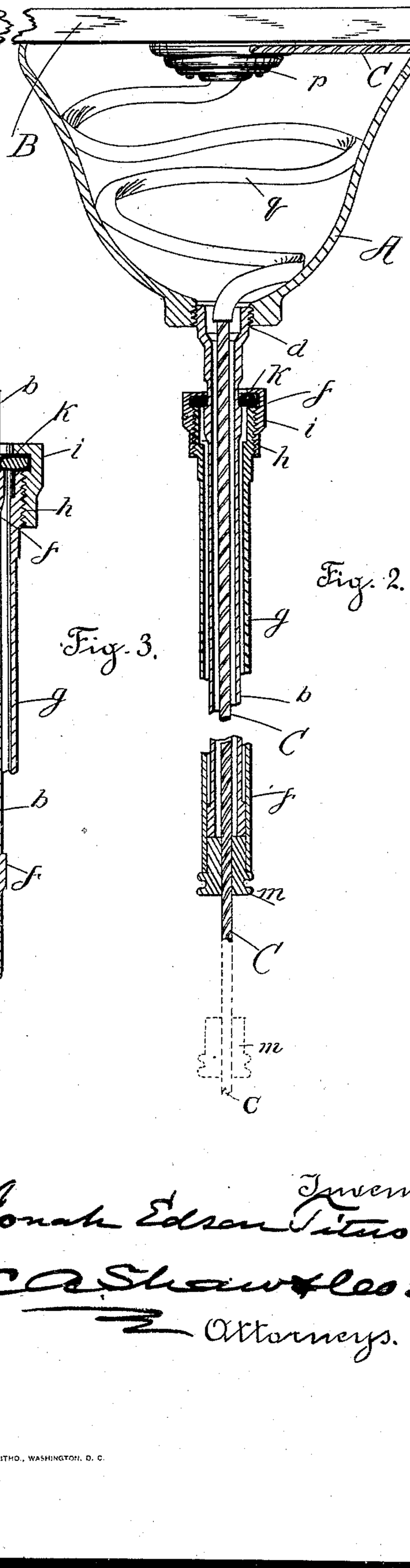

Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

JONAH EDSON TITUS, OF ORANGE, MASSACHUSETTS.

EXTENSIBLE BRACKET FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 446,037, dated February 10, 1891.

Application filed March 14, 1890. Serial No. 343,871. (No model.)

To all whom it may concern:

Be it known that I, JONAH EDSON TITUS, of Orange, in the county of Franklin, State of Massachusetts, have invented certain new and useful Improvements in Extensible Brackets for Incandescent Electric Lamps, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of my improved bracket, a portion of the tube being shown as broken away; Fig. 2, a vertical transverse section of the same, and Fig. 3 an enlarged sectional view illustrating details of construction.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to a bracket or holder for supporting the wires of incandescent electric lamps; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents a bell, which is adapted to be secured to a wall or ceiling B in any convenient position. A section of tubing *b* has one end threaded at *d* and turned into the apex of the bell A, which is adapted to receive it. Shoulders *f* are formed on the tube *b* at intervals. An inclosing tube or sleeve *g* is fitted to slide over the tube *b*, the upper end of said tube *g* being threaded at *h* and a metallic cap *i* is turned thereon. In an annular groove in said cap a rubber friction-ring *k* is disposed, said ring being adapted to engage the face of the inner tube *b* and support said tube in position when said ring is in contact with the shoulders *f* thereof. A tubular plug *m* is inserted in the lower end of the inclosing tube *g*. A socket *p* is secured to the ceiling centrally within the bell A, and a coil of tubing *q*, composed of rubber or similar insulating material, is disposed within the bell, one end thereof being connected with the mouth of the socket *p*. The tube *q* may extend through the pipe *b* down to the plug *m*. An electrical conducting-cable C passes into the bell near the ceiling and into said socket *p*. From thence a cable C′ passes through the flexible insulating-tube *q* into the tube *b*, its lower end being secured in the plug *m*, and, projecting slightly beyond said plug and the incandescent lamp D, is secured to its outer end.

The bracket may be made to serve as a chandelier, and a group of lamps may be secured to the cable C. When pendent from the ceiling and it is desired to lower the lamps, the outer tube *g* is pulled downward, the friction-ring *k* passing over the upper shoulder *f* and sliding on the tube *b*, until it meets another shoulder *f*. The cable, being coiled in the bell A and secured in the plug *m*, readily follows the movement of said tube.

When the bracket has been extended its full length, if it is desired to further move the lamp D, the plug *m* may be withdrawn from the inclosing tube *g* and the wire drawn freely through said tube to any extent permitted by the length of the coil in the bell A.

Having thus explained my invention, what I claim is—

1. The combination of a bell, a fixed tube secured at its inner end in said bell, a sliding tube inclosing said fixed tube, means for holding said sliding tube on said fixed tube, a detachable tubular plug for closing the lower end of said sliding tube, and an insulated electric cable coiled in said bell and extending through said fixed tube and through the tubular plug thereof, said cable being adapted for connection at its upper end with an electric socket and at its lower end with an electric lamp, substantially as described.

2. In a drop-light chandelier, the combination of a fixed tube provided with external shoulders at intervals, a sliding tube inclos-

ing said fixed tube and screw-threaded at its upper end, a screw-threaded perforated cap adapted to slide on said fixed tube and engaging the screw-threaded upper end of said sliding tube, and a friction-ring interposed between the perforated top of said cap and the upper end of said sliding tube, said friction-ring being adapted to engage said shoulders, and having its tension adjustable by means of said cap, substantially as described.

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