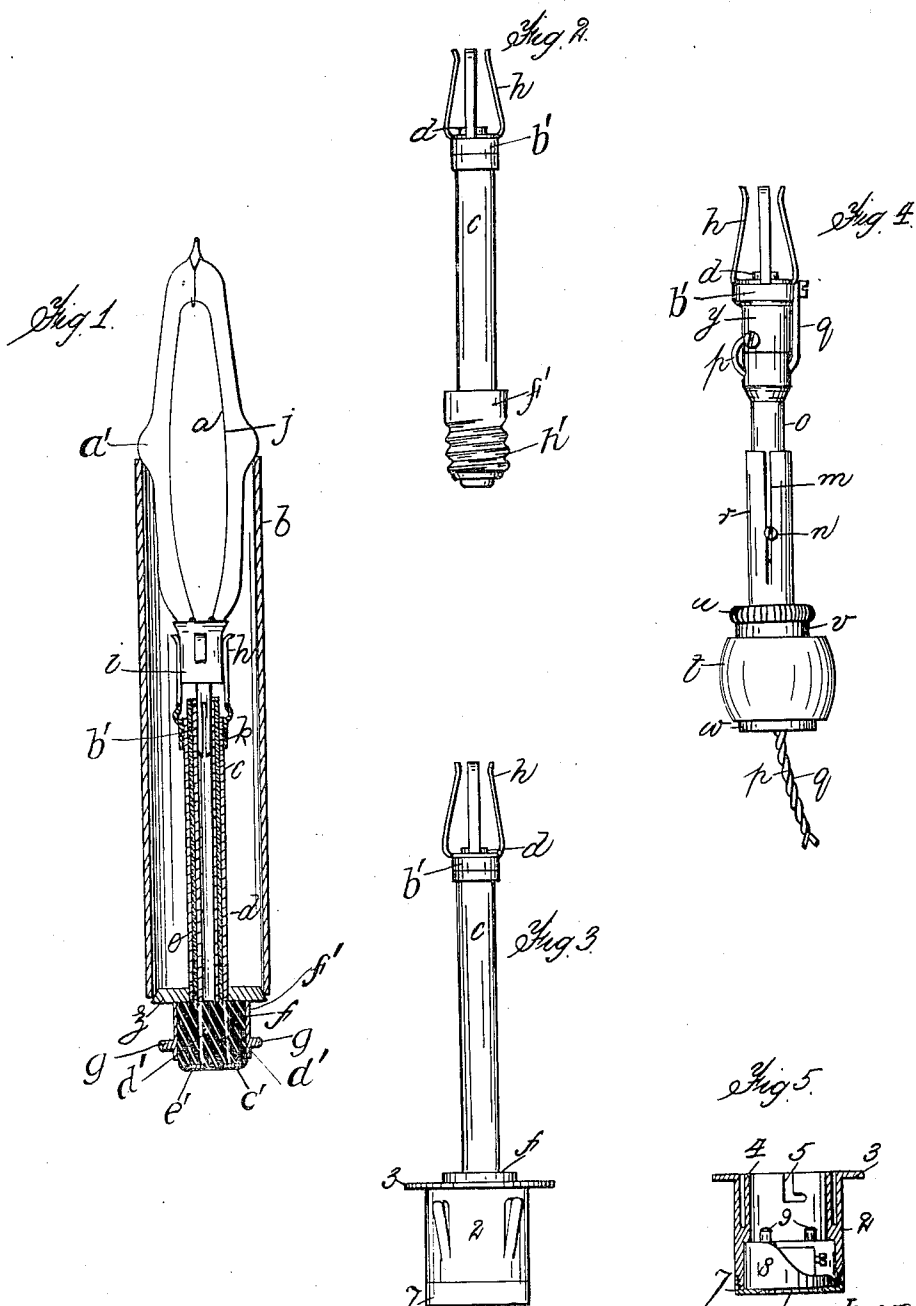


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PATENTED JULY 3, 1906.

A. J. BONNELLA.
ELECTRIC LAMP FITTING.
APPLICATION FILED AUG. 7, 1905.



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ALBERT JOHN BONNELLA, OF LONDON, ENGLAND.

ELECTRIC-LAMP FITTING.

No. 825,182.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT JOHN BONNELLA, a subject of the King of England, residing at 58 Mortimer street, London, England, have invented certain new and useful Improvements in Electric-Lamp Fittings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to electric-lamp fittings, and more particularly to that class which use electricity as a means of imitating the light of a more costly lighting medium; and the object of my invention is to provide a construction by which a fancy library or parlor candle may be more closely imitated than has hitherto been accomplished. The means by which I attain this consist, broadly, in four separate parts which when assembled complete the product. The parts in order are the socket having the electrical-wire connection, the holder adapted to fit into the socket and having means for continuing the current, the lamp fitting into said holder completing the circuit, and the opal-glass casing.

My invention also includes certain details of construction hereinafter described in this specification and shown in the accompanying drawings, in which—

Figure 1 is an elevation, partly in section, of the lamp, opal glass, and holder. Fig. 2 is an elevation of the holder, showing the same provided with a screw-base. Fig. 3 is a similar view showing the holder and socket in a coupled position. Fig. 4 is a view of a modified form of my device, showing means for the vertical adjustment of the holder and modified means of circuit completion; and Fig. 5 is a vertical section through the socket portion.

Referring to the drawings, *a* indicates an incandescent electric-lamp globe adapted to be inserted within an opal-glass tube *b* and having an enlarged annular portion *a'*, adapted to rest upon said tube *b*. The lamp *a* has within it the filament or glower *j*, one end of which is attached to the cap *i*, and the other end of which is attached to the split tongue *k*.

e is a hollow metal tube placed vertically within the glass tube *b* and having threads cut upon its outer face adjacent the top, upon which the collar *b'* carrying upwardly-

extending spring-fingers *h*, is adapted to screw. The metal tube *e* is placed within the tube *c* and insulated from the same by the glass tube *d*. The tubes *c* and *e* are connected, respectively, to contact-plates *c'* and *e'* by wires *d'* through the insulating-plug *f*. *z* is a loose ring designed to hold glass tube *b*, and *f'* is a metal cap fitting around the plug *f*, having pins *g* integral thereto.

In my improved socket portion, 2 represents a metal cylinder having a flange 3 and an inner wall 4, provided with bayonet-slots 5. A screw-cap 7 is designed to hold an insulating-plug 8 within the lower portion of the tube 2, the said cap having an opening 10, through which a suitable electric current can be supplied to the spring plunger-pins 9, held in the insulating-plug 8.

In operation the ring *z* is slipped over the tube *c* and down upon the plug *f* and the collar *b'* is screwed upon the tube *c* to obtain the desired height of the globe *a*. The holder is then slipped into the socket and locked or, as shown in Fig. 2, a modification, the part *f'* may be threaded at *h'* to screw into the socket. In either construction the contact-plates *c'* and *e'* will rest upon the plunger-pins and the current will flow up tube *c* to the spring-fingers *h* and up tube *e*, and the circuit will be completed when the globe is thrust into the spring-fingers and the slotted tongue enters the bore of tube *e*.

In Fig. 4 I have shown a modified form in which the tube *o*, corresponding to the tube *c* of Fig. 1, is insulated from the collar *b'*, holding spring-arms *h*, and is adapted to telescope into the tube *r*. The said tube *o* has a small set-screw *n*, which engages in the slot *m* of the tube *r*, whereby a ready adjustment in the height of the holder may be had. The common electric wires *p* and *q* pass through the lower portion of the tube, the wire *p* connecting with the inner tube *e* and the wire *q* connecting with the collar *b'*, and the circuit is completed, as before described. The tube *o* is provided with an insulating-collar at *y*, to which the collar *b'* is attached. *t* is a rubber collar capable of being expanded under pressure by the washers *v* and *w* upon tube *r* to effect a tight connection when my device is placed within a candlestick-holder, and *u* is a collar corresponding to *z* in Fig. 1.

In practice I prefer to galvanize, enamel, polish, or otherwise decorate the tube *c* to enhance the representation of the candle.

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

1. In a device of the character described, the combination with an opal-glass tube, of an electrically-wired globe, adapted to be partially inserted in and to rest upon said tube, and electrical connections within said tube whereby when the globe is inserted it will complete a circuit, substantially as described.
2. In a device of the character described, the combination with an opal-glass tube, of an electrically-wired globe, adapted to be partially inserted in and to rest upon said tube, metal tubes within said glass tube and means whereby when said globe is inserted within said glass tube and into contact with said metal tubes it will complete a circuit, substantially as described.
3. In a device of the character described, the combination with an opal-glass tube, of an electrically-wired globe, adapted to be partially inserted in and to rest upon said tube, a collar adjacent the lower end of said globe, a split tongue extending downwardly from said collar, metal tubes within said glass tube, an insulating-plug attached to the lower portion of said tubes and a loose ring around said metal tubes and resting upon said plug to hold said glass tube in position, substantially as described.
4. In a device of the character described, the combination with an opal-glass tube, of metal tubes within said glass tube, an insulating-plug attached to the lower end of said metal tubes, a loose ring resting upon said plug and around said metal tubes and adapted to hold said glass tube in position, a metal cap embracing said plug, a socket portion, and means for locking said plug within said socket portion, substantially as described.
5. In a device of the character described, the combination with an insulating-plug, of a socket portion comprising a short metal tube slotted a short distance to form outer and inner walls, said inner wall being cut away to form bayonet-slots and said plug having a metal cap provided with projecting pins adapted to register in said bayonet-slots and securely lock the parts together, substantially as described.
6. In a device of the kind described, an insulated plug, a socket portion adapted to hold said plug, comprising a flanged metal tube slotted annularly a portion of its length to form outer and inner walls, said inner wall being cut away to form bayonet-slots, a metal ring adapted to be inserted in the lower portion of said socket, screw-threads upon the periphery of said socket and adjacent the lower end thereof, a screw-cap engaging said threads and operating to hold said ring within said tube, plunger-pins ar-

65 ranged in said ring and said cap having a central hole through which suitable electric wires may be connected to said plunger-pins, substantially as described.

7. In a device of the kind described, the combination with an opal-glass tube, an insulated plug, metal tubes rising from said plug, one of said tubes within the other, an insulating-tube between said metal tubes, a pair of contact-plates upon the bottom of said plug, having suitable electric connection, one with the outer of the metal tubes and one with the inner one, said outer tube having threads upon its periphery adjacent its upper end, a collar adapted to screw on said tube, having upwardly-extending spring-fingers, a globe, a collar around the lower portion of said globe, a split tongue extending downwardly from said globe, filaments in said globe connected at one end to said collar and at the other end to said tongue, whereby when the collar is thrust into engagement with said spring-fingers the said split tongue will enter the bore of the inner metal tube to complete a circuit, substantially as described.

8. In a device of the kind described, a socket portion having bayonet-slots therein, an insulating-plug, a metal cap embracing said plug having projecting pins, a pair of metal tubes one within the other rising from said plug and insulated from one another, plunger-pins arranged within said socket, a pair of contact-plates arranged upon the bottom of said insulating-plug, connected, one to the outer and one to the inner of said metal tubes and so arranged that when the plunger is inserted in the socket the said contact-plates will rest upon said plunger-pins, substantially as described.

9. In a device of the kind described, a socket portion, a pair of plunger-pins arranged within said socket and having suitable electrical connections, an insulating-plug, a pair of tubes, one within the other, rising from said plug, contact-plates on the bottom of said plug each connected to one of said tubes and so arranged that when the plug is inserted in said socket portion, the contact-plates will rest upon said plunger-pins, a globe, a metal collar around the lower portion of said globe, a split tongue extending downwardly from said globe, a collar upon the upper portion of the outer tube having upwardly-extending spring-fingers whereby when the collar on the globe is thrust within said fingers said split tongue will enter the bore of the inner tube to complete a circuit, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT JOHN BONNELLA.

Witnesses:

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ARTHUR WM. HEAD.