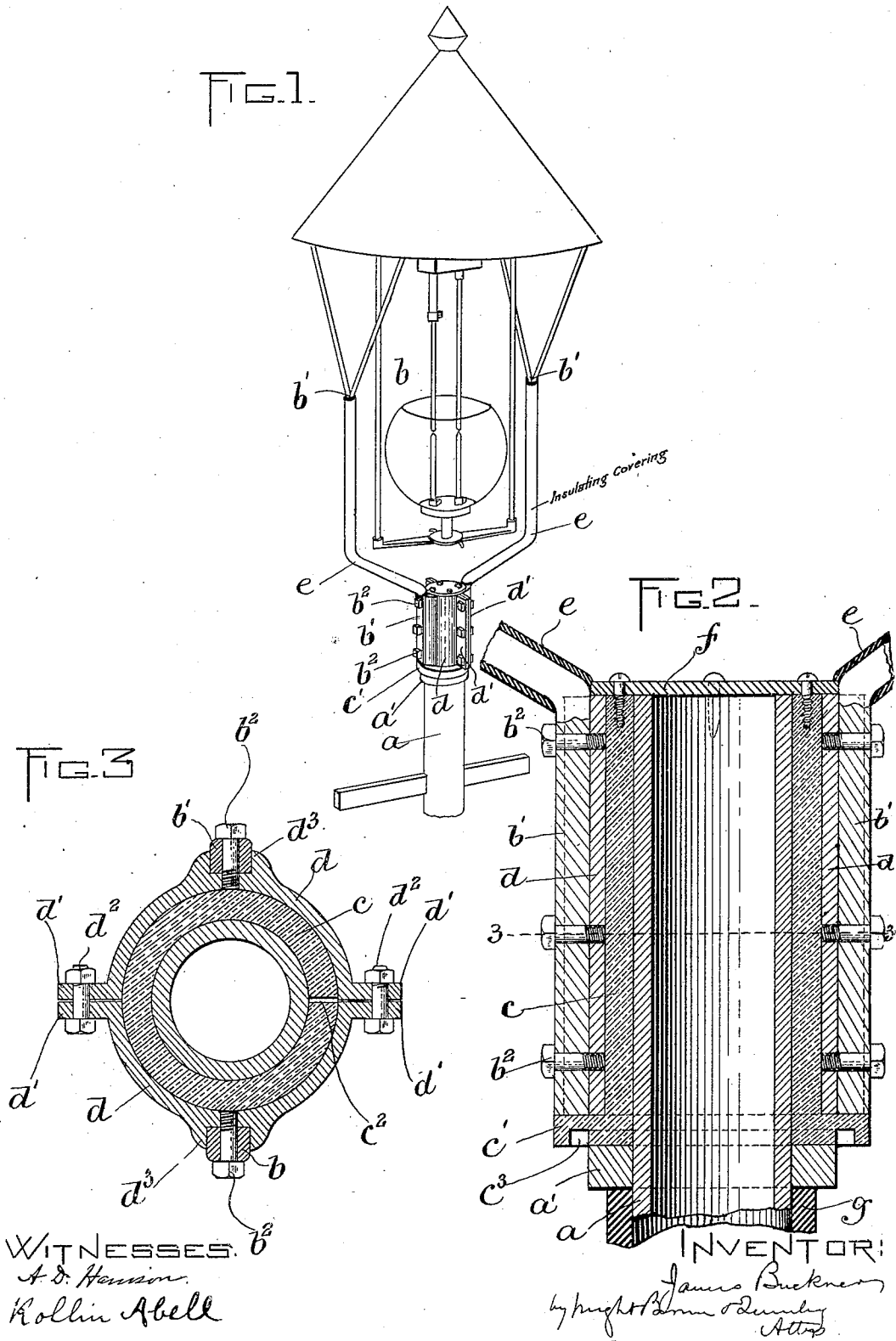


(No Model.)

J. BUCKNER.
ELECTRIC LAMP SUPPORT.

No. 553,220.

Patented Jan. 14, 1896.



UNITED STATES PATENT OFFICE.

JAMES BUCKNER, OF BOSTON, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO CHARLES F. FELLOWS, OF CHELMSFORD, MASSACHUSETTS.

ELECTRIC-LAMP SUPPORT.

SPECIFICATION forming part of Letters Patent No. 553,220, dated January 14, 1893.

Application filed June 10, 1893. Serial No. 552,214. (No model.)

To all whom it may concern:

Be it known that I, JAMES BUCKNER, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Electric-Lamp Supports, of which the following is a specification.

This invention relates to the posts or poles which support electric-arc lamps, and has for its object to provide an improved construction whereby the lamp may be insulated from the metal post.

The invention also has for its object to provide means whereby the lamp trimmer or attendant may be protected from injury by the electric current when he is attending to the lamp.

To these ends the invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a perspective view of an electric-arc lamp and a portion of its supporting-post provided with my improvements. Fig. 2 represents a vertical section of a part of the post and of the insulating and lamp-arm connecting devices thereon. Fig. 3 represents a section on line 3 3 of Fig. 2.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents a metal lamp-post, which is or may be of tubular form, and *b* represents an electric-arc lamp supported by said post through the medium of arms *b'*, said lamp and arms being of the usual construction, excepting in the matter of the insulating sheaths or coverings on the arms, hereinafter described.

To the post *a*, near its upper end, I rigidly affix an outwardly-projecting collar *a'*, which may be secured by set-screws or may be shrunk upon the post or secured thereto in any other suitable way. *c* represents a tubular insulator, which is formed to encircle the post above the collar *a'* and to rest upon said collar. The insulator is provided at its lower end with an outwardly-projecting flange *c'* integral with the tubular body of the insulator. The insulator and its flange may be of any suitable insulating material, a suitable

material being wood. I prefer to cut or divide the insulator at one side, as shown at *c²*, Fig. 3, in order that it may be firmly clamped upon the post by the means next described.

To the exterior of the insulator I apply a sectional metallic sleeve composed of the two sections or members *d d*, each having ears *d'* which are connected by bolts or screws *d²*. The sections *d* are formed to closely fit the exterior of the insulator and to clamp the same firmly against the post *a*, the lower ends of said sections resting upon the flange *c'* of the insulator. The sections *d d* are provided with longitudinal sockets *d³ d³* which receive the shanks or lower ends of the lamp-arms *b'*, said arms being secured to the sections *d* within the sockets *d³* by means of screws or bolts *b²*.

It will be seen that the insulator supported by the rigid collar *a'* upon the post *a* in turn supports the sectional sleeve *d d*, and through the latter the lamp-arms *b' b'*, and effectually insulates said arms and the sectional sleeve *d d* from the post *a*. It will also be seen that the described construction is capable of being made very strong and durable, and is particularly well fitted for the out-door use for which it is intended.

e e represent sheaths or coverings of insulating material placed upon the lamp-arms *b'* and covering those portions of the arms which the lamp trimmer or attendant would be liable to grasp when attending to his duties, so that in case the current is not switched off and the trimmer grasps both arms *b'* at the same time he will be protected from injury. Said coverings may be of any suitable material, such as vulcanized fiber molded to receive the arms, or it may be in the form of strips of suitable fibrous material wound upon the arms and secured thereto by suitable clamping or retaining devices.

f represents a cap, of wood or other suitable insulating material, secured to the upper end of the insulator *c* to exclude water and dirt from the said insulator and from the interior of the post *a*.

The flange *c'* of the insulator may be provided with a groove *c³* in its under side, as shown in Fig. 2, the outer side of said groove constituting a depending flange which pre-

vents water from bridging across the flange *c'* of the insulator and forming a connection between the lamp-arms *b'* and the collar *a'* and post *a*.

5 When the trimmer is supported by the arms *e* on the post *a*, there is liability of the circuit being closed through his body from the lamp to the post. To prevent this, I provide the post with a sheath *g* of insulating material, covering all parts which are liable to
10 contact with the body or clothing of the operator. Said sheath may be of vulcanized fiber or any other suitable material.

I claim—

15 1. An electric-lamp support comprising a metal post having a fixed collar near its upper end, a tubular insulator supported by said collar and having an outwardly projecting flange, a sectional metal sleeve clamped
20 upon said insulator, and the lamp-arms or standards secured to said sleeve.

2. An electric-lamp support comprising a metal post having a fixed collar near its upper end, a tubular insulator supported by
25 said collar and having an outwardly project-

ing flange, a sectional metal sleeve clamped upon said insulator and provided with external sockets, and the lamp-arms or standards fitted at their lower ends in said sockets and secured to the sleeve, said sleeve and arms
30 being supported by the flange of the insulator.

3. An electric-lamp support comprising a metal post having a fixed collar near its upper end, a tubular insulator supported by said collar and having an outwardly project-
35 ing flange, a sectional metal sleeve clamped upon said insulator and provided with external sockets, and the lamp-arms or standards fitted at their lower ends in said sockets and secured to the sleeve and provided with in-
40 sulating sheaths or coverings.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 3d day of June, A. D. 1895.

JAMES BUCKNER.

Witnesses:

C. F. BROWN,
A. D. HARRISON.