(No Model.)

G. H. ALLEN.

SUPPORT FOR ELECTRIC LIGHTS AND CONDUCTORS.

No. 264,599. Patented Sept. 19, 1882.

Fig. 1,

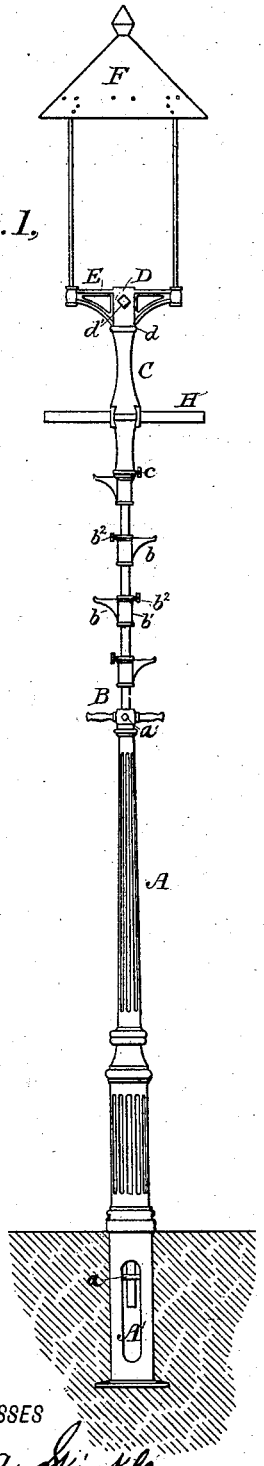


Fig. 2,

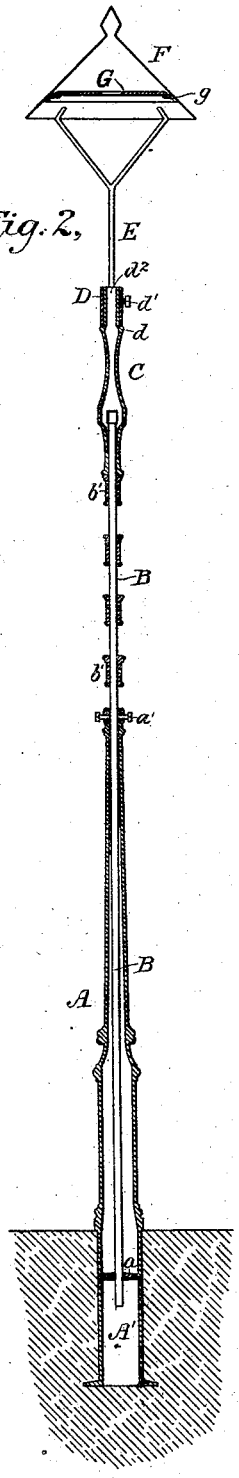
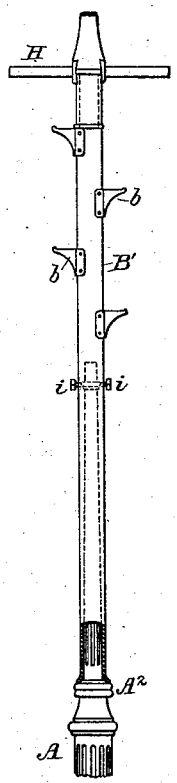


Fig. 3,



WITNESSES

Wm. A. Skinkle.

Geo. W. Breck.

INVENTOR

George H. Allen,

By his Attorney

Frank L. Popp.

UNITED STATES PATENT OFFICE.

GEORGE H. ALLEN, OF BOSTON, MASSACHUSETTS.

SUPPORT FOR ELECTRIC LIGHTS AND CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 264,599, dated September 19, 1882.

Application filed May 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. ALLEN, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Supports for Electric Lights and Conductors, of which the following is a specification.

The object of my invention is to provide a convenient attachment for extending the ordinary street-lamp post to any required height for supporting electric lights and conductors.

My invention consists in providing a suitable tubular wrought-iron extension-section, together with means for attaching the same to the upper portion of a street-lamp post of the ordinary construction, and also with suitable devices for adjusting the vertical position of the same.

The invention also comprises certain appliances for supporting and adjusting the position of an electric light.

In the accompanying drawings, Figure 1 represents a street-lamp post of the usual construction provided with an extension-section embodying the essential features of my invention. Fig. 2 is a transverse vertical section of the same, and Fig. 3 shows certain modifications in the details of construction.

Referring to the drawings, A represents the main portion of an ordinary hollow cast-iron lamp-post supported, by being set in the earth at A′, in the usual manner, the upper portion of the post, together with the usual lamp or gas-burner, having been removed to make room for the attachment hereinafter described.

Through the central portion or spindle of the hollow iron post A extends a wrought-iron tube, B, as shown in Fig. 2, the lower end of which is supported in an annular brace, *a*, secured within the hollow of the post, near the bottom thereof. The upper end of the tube B extends above the top of the post A; but it is secured at that point by means of binding-screws *a′*, three or more of which may be placed at equidistant points for adjusting the tubes in an exactly perpendicular position; or the tubes may be constructed to fit tightly within the aperture at the top of the post and the adjusting-screws dispensed with.

At convenient distances apart upon the tubular section B are attached steps *b b*, for use in ascending the same. These steps may be rendered adjustable by constructing them with a collar, *b′*, adapted to encircle the tube B, and providing suitable binding-screws, b^2, extending through the collar and pressing against the tube.

Over the upper extremity of the tubular section B, which may be of any desired length, is fitted a sleeve, C, which is supported by and turns horizontally upon the collar of the upper step *b* for the purpose of changing the position of the light to be mounted thereon. A binding-screw, *c*, is inserted in the sleeve C, and may be made to bear against the stationary section B for the purpose of holding the sleeve in any required position.

Upon the top of the sleeve C is placed a collar, D, resting upon a suitable flange, *d*, formed upon the said sleeve. The collar, like the sleeve upon which it rests, may be turned horizontally upon its support and secured in any desired position by means of a screw, *d′*. The collar D carries a bracket, E, of any suitable construction, for supporting a hood, F, adapted to inclose or cover the upper portion of an electric lamp. Within the hood is secured a plate or disk, G, of a non-conducting material, for supporting the lamp, to which may be attached the necessary electric conductors and switches. This plate or disk is supported at its edges upon a rim, *g*, formed upon the inner surface of the hood, and it is capable of being turned therein for convenience in adjusting the position of the lamp with reference to the supporting-bracket E.

For the purpose of supporting the electric conductors a suitable cross-arm, H, is inserted at a convenient point in the sleeve. The conductors may be supported upon this cross-arm in any well-known manner.

In Fig. 3 I have shown a modification in the method of attaching the tubular extension B to the post, which modification consists in making the same of sufficient internal diameter to admit of its being placed over the spindle of the lamp-post, as shown at B′. Its internal diameter should be such as to cause it to fit snugly around the base of the post A, just above the flange or enlargement A^2, while its upper portion may either fit tightly in like manner up-

on the upper extremity of the spindle, or it may be of sufficient size to permit of the vertical position of the tube being adjusted by means of suitable adjusting-screws, *i i*, the latter arrangement being preferable. The upper portion of the extension and the supporting-collar of the bracket are essentially of the same construction as that already described in connection with Fig. 1.

It will be observed that both the post and the extension are hollow throughout their entire length, and hence when underground conductors are employed they may be led up through the interior of the post, and thence through the opening *d* at the upper surface of the collar D.

I claim as my invention—

1. The combination, substantially as hereinbefore set forth, of the spindle of a stationary lamp-post, the tubular extension fitted to and extending above the same, and means for adjusting the upward direction of said extension.

2. The combination, substantially as hereinbefore set forth, with the spindle of a stationary lamp-post, of the vertically-adjustable tubular extension fitted to and extending above the same, and the sleeve fitted to and supported upon said extension.

3. The combination, substantially as hereinbefore set forth, with the spindle of a stationary lamp-post, of the vertically-adjustable tubular extension fitted to and extending above the same, the sleeve fitted to and turning horizontally upon said extension, and means for securing said sleeve in its required horizontal position.

4. The combination, substantially as hereinbefore set forth, of the spindle of a stationary lamp-post, the tubular extension fitted to and supported by said spindle, the sleeve supported upon said extension, and the bracket and hood for supporting an electric light mounted upon said sleeve.

5. The combination, substantially as hereinbefore set forth, of the sleeve, the bracket mounted upon said extension and adapted to be turned thereon, and hood supported upon said bracket.

6. The combination, substantially as hereinbefore set forth, of the sleeve, the bracket supported upon said sleeve, the hood supported upon said bracket, and the horizontally-movable plate or disk supported within said hood.

7. The combination, substantially as hereinbefore set forth, of the spindle of a stationary lamp-post, the tubular extension supported by said spindle, and means, substantially such as described, for adjusting the vertical position of said extension with reference to the stationary spindle.

In testimony whereof I have hereunto subscribed my name this 13th day of May, A. D. 1882.

GEORGE H. ALLEN.

Witnesses:
J. CONVERSE GRAY,
ELMER P. HOWE.