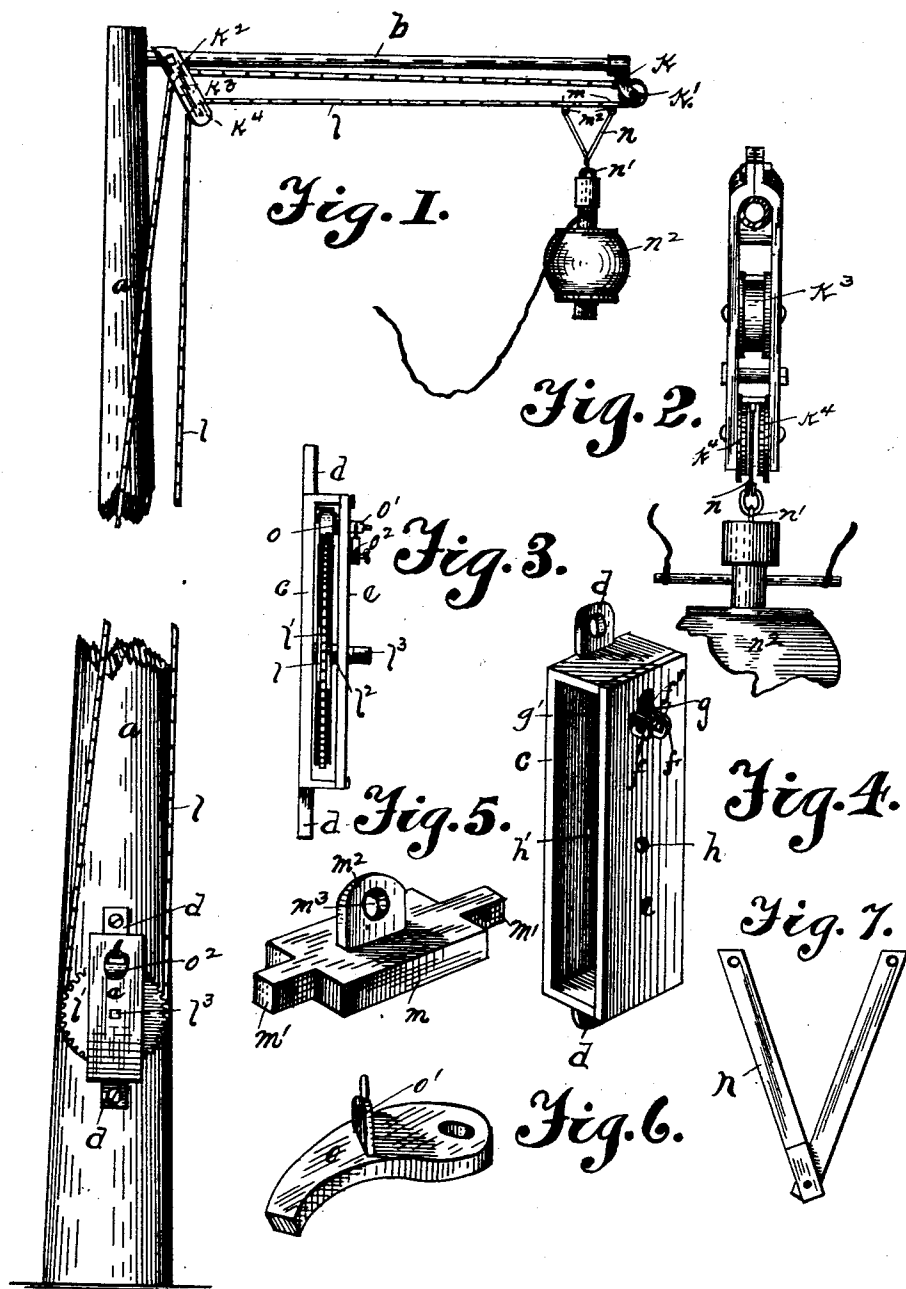


(No Model.)

C. A. HANEY.
ARC LIGHT HOLDER.

No. 586,435.

Patented July 13, 1897.



Witnesses
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UNITED STATES PATENT OFFICE.

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ARC-LIGHT HOLDER.

SPECIFICATION forming part of Letters Patent No. 586,435, dated July 13, 1897.

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To all whom it may concern:

Be it known that I, CHARLES A. HANEY, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Arc-Light Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in arc-light holders or hangers, and has for its object the provision of novel means whereby the lamp will always retain a vertical position when raised or lowered.

The invention has for its further object to so construct the holder that it will obviate the swinging of the lamp that is incident to the ordinary holder now in use.

The invention still further aims to construct a holder or hanger of the above-referred-to class that will lower the lamp in close proximity to the upright standard or pole, and, furthermore, so arrange and construct the parts as to admit of a free and easy operation when it is desired to raise and lower the lamp, a still further object being to construct a holder or hanger of the above-referred-to type that will be extremely simple in its construction, strong, durable, and comparatively inexpensive to manufacture.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more particularly described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like letters of reference indicate similar parts throughout the several views, in which—

Figure 1 is a side elevation of an upright or standard partly broken away and equipped with my improved arc-light holder or hanger. Fig. 2 is an enlarged end view of the pulleys, bracket, and portion of the lamp. Fig. 3 is an enlarged end view of the toothed operating-wheel mounted in a casing. Fig. 4 is an enlarged perspective view of the casing. Fig. 5 is an enlarged view of the securing-block arranged within the casing. Fig. 6 is a simi-

lar view of the pawl or dog. Fig. 7 is a detail view of the hanger.

In the drawings, *a* indicates the upright or standard, to which is secured near its upper extremity a cross-piece *b*, extending outwardly at right angles thereto. Near the lower end of the standard is secured a rectangular casing *c*, said casing being provided with upwardly and downwardly extending apertured securing-lugs *d d*, integral with the casing. The front of the casing is formed of a removable or hinged plate *e*, said plate carrying lugs *f f*, provided with apertures *f' f'*. Between these lugs in the body portion of the plate is arranged an aperture *g*, the said plate being further provided with an aperture *h*, the latter being centrally arranged therein, a corresponding aperture *h'* in direct alinement with the aperture *h* being formed through the rear side or wall of the casing *c*. Diametrically opposite the aperture *g* is formed a corresponding aperture *g'* through the rear side or wall of the casing.

The cross-piece *b* is provided at its outer extremity with a hanger *k*, carrying double pulleys *k'*, and near the inner end of the cross-piece *b* the same carries a bracket *k²*, having journaled therein a double pulley *k³* and carrying near its lower end pulleys *k⁴*, forming passage-ways for the lamp-hanger, said bracket being preferably hung on an incline, as shown in Fig. 1, in order to prevent the two parts of the endless chain *l* from engaging at the point where it passes over the pulleys. This endless chain passes over a sprocket-wheel *l'*, which is journaled on a shaft *l²*, engaging in the apertures *h* and *h'*, said shaft being provided on its outer end with a square end *l³* to receive a crank. This endless chain *l* carries two blocks *m*, provided with tenons *m' m'* and with a downwardly-extending lug *m²*, provided with an aperture *m³* to receive the upper ends of a V-shaped hanger *n*, said hanger engaging in a staple *n'* in the upper end of the pole carrying the lamp *n²*. The remaining portion of the chain is preferably formed of a strap nature consisting of straight links pivotally secured together.

A gravity-pawl *o* is secured within the casing of the sprocket-wheel *l'*, which extends through the aperture *g* to receive the hasp

of the padlock o^2 , said hasp also engaging through the lugs f and f' to lock the plate e in position.

The operation of my improved hanger or holder is as follows: The gravity-pawl is raised from engagement with the toothed wheel. The crank-handle operating the toothed wheel is turned, thereby operating the chain in the desired direction, causing the lamp to travel toward the standard. When the pulleys k^4 are reached, the hanger carrying the lamp will be permitted to pass between the pulleys k^4 , as shown in Fig. 2 of the drawings, and descend with the chain to the desired point.

The many advantages afforded by the use of my improved holder and hanger will be readily apparent from the foregoing description, and a further explanation is deemed unnecessary.

It will be noticed that various changes may be made in the details of construction of my improved lamp-holder without departing from the general spirit of my invention.

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

1. In an arc-light holder and hanger, the combination of the upright or pole, carrying a stationary cross-arm, a casing on the side of said upright, a sprocket-wheel journaled in said casing, a hanger secured to the end of said

cross-arm, a bracket provided with side pieces secured to the cross-arm near the upright and provided with a roller journaled intermediate the ends of said pieces, a roller secured to the end of each of said arms, a passage-way formed between the two pulleys of the bracket for the lamp-hanger and an endless chain engaging the sprocket-wheel and the said pulleys, and a hanger depending from said chain to support the lamp, substantially as shown and described.

2. In an arc-light holder, the combination of the upright, a casing on said upright, a sprocket-wheel in said casing a cross-piece carried by said upright, a hanger carried by said cross-piece, a pulley secured in said hanger, a bracket secured to the cross-piece near the upright, a roller secured to each arm of said bracket, a passage-way formed between the rollers of each arm for the lamp-bracket, an endless chain engaging the sprocket-wheel and pulleys, and a hanger carried by said endless chain to support the lamp and adapted to operate between the rollers, substantially as shown and described.

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

CHARLES A. HANEY.

Witnesses:

JOHN NOLAND,
H. E. SEIBERT.