(No Model.)

O. S. MOSS.

CARBON HOLDER FOR ELECTRIC LIGHTS.

No. 588,233. Patented Aug. 17, 1897.

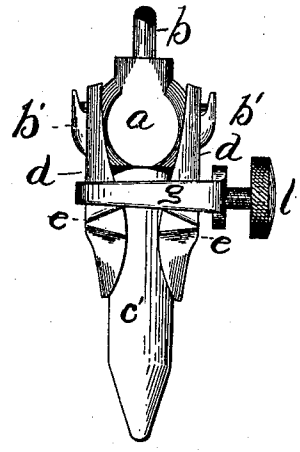


Fig. 1.

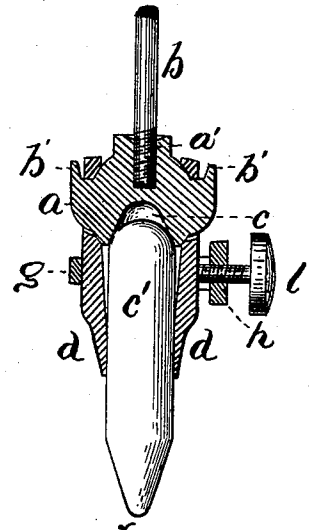


Fig. 3.

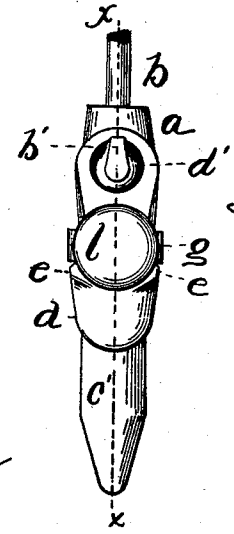


Fig. 2.

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CARBON-HOLDER FOR ELECTRIC LIGHTS.

SPECIFICATION forming part of Letters Patent No. 588,233, dated August 17, 1897.

Application filed November 2, 1896. Serial No. 610,814. (No model.)

To all whom it may concern:

Be it known that I, OSCAR S. MOSS, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Carbon-Holders for Electric Lights, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improvements in electric-arc lamps, having more particular reference to the means for holding the upper carbon in position.

The objection to the carbon-holders now in use is the difficulty experienced in maintaining the trim of the lamp, for the reason that if it is not trimmed straight—that is, if the points of the two carbons are not maintained in alinement—when the machine flashes or when from any other cause the current is temporarily off the upper carbon will slip by the lower one to such an extent that the mechanism provided for the purpose will be unable to lift it sufficiently, and hence the lamp will be prevented from starting again until it has been again replaced by an attendant, and to the end of obviating this difficulty my object is to produce a carbon-holder which will automatically center the carbon when warped or crooked, so that it will be impossible to get out of alinement with the lower carbon; and to that end my invention consists in the several new and novel features of construction and operation hereinafter described and which are specifically set forth in the claims hereunto annexed. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of the holder complete attached to a lamp-rod which is broken away. Fig. 2 is an edge view thereof. Fig. 3 is a vertical section on line X X, Fig. 2.

a is the base of the holder, having a threaded recess *a'* in its upper end for the reception of the lamp-rod *b* and a cylindrical concavity *c* in its lower end in which the upper end of the carbon *c'* rests and in which it is adapted to turn freely in any direction for the purpose of bringing it in alinement with the point of the lower carbon. It is also provided with lateral ears *b'* for the purpose hereinafter set forth. *d* are side pieces constructed substantially as shown, having their inner faces concaved or recessed and adapted to fit around or about the carbon *c'* and provided at its upper end with an eye *d'*, adapted to engage with the ears *b'*, and near its lower end, on either side, are lugs *e* for the purpose hereinafter specified.

g is a ring having a threaded opening upon each side, as shown at *h*, and *l* is a thumb-screw engaging therewith and bearing against the side of the side pieces *d*, and thereby performs the services of a clamp to hold the side pieces in engagement with the carbon, the ring or clamp *g* being held in its position by the lugs *e*.

It will thus be observed that when a carbon is seated in the concavity *c* it will first be rotated therein, particularly so in case the carbon is bent or warped, until its point at all times is in alinement with the lower carbon. It will also be observed that the side pieces, being loose, will follow it in any direction and conform themselves with the periphery of the carbon, where they may be tightened by means of the thumb-screw *l*.

It will be observed that the inner faces of the side pieces may be corrugated, fluted, or roughened, so as to more securely hold the carbon.

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

1. A carbon-holder comprising a base having a concavity in its lower face, and provided with lateral ears, means of securing it to the lamp-rod, side pieces having eyes in their upper ends, their inner faces adapted to grip the carbon and means for holding them in engagement with the carbon.

2. A carbon-holder comprising a base, having a concavity in its lower face, means for securing it to the lamp-rod or light-wire, lateral ears, in combination with side pieces having eyes at their upper ends adapted to engage with the aforesaid ears and the inner face concaved and adapted to grip the carbon, lugs near their lower ends and a clamp for holding the side pieces in engagement with the carbon as set forth.

In witness whereof I have hereunto set my hand this 16th day of October, 1896.

OSCAR S. MOSS.

In presence of—

MARY A. FRANKLIN,

HOWARD P. DENISON.