

(No Model.)

T. H. BRADY.
MEANS FOR SUSPENDING ELECTRIC LAMPS.

No. 463,773.

Patented Nov. 24, 1891.

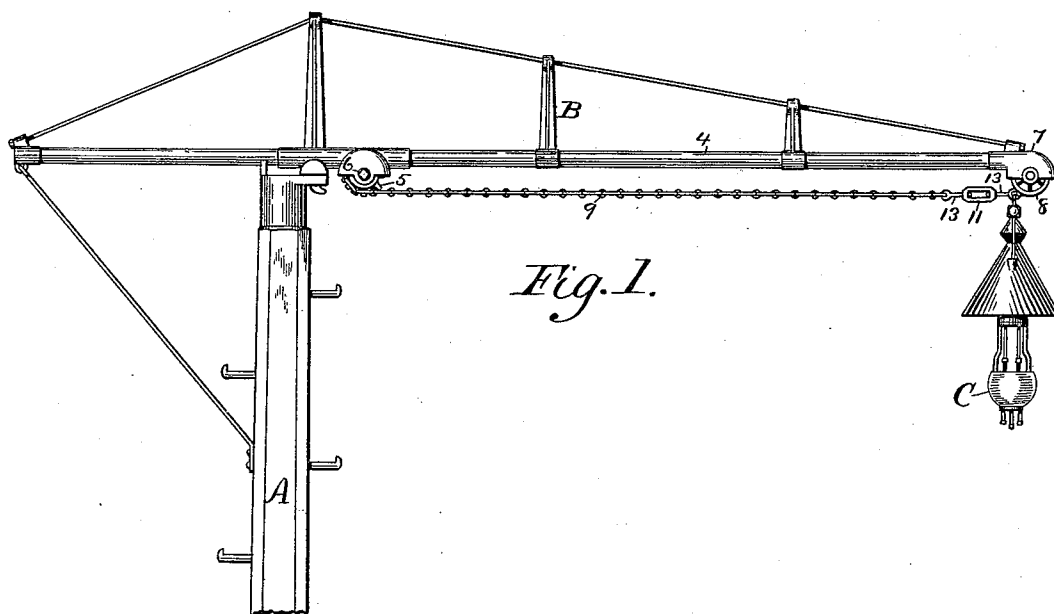


Fig. 1.

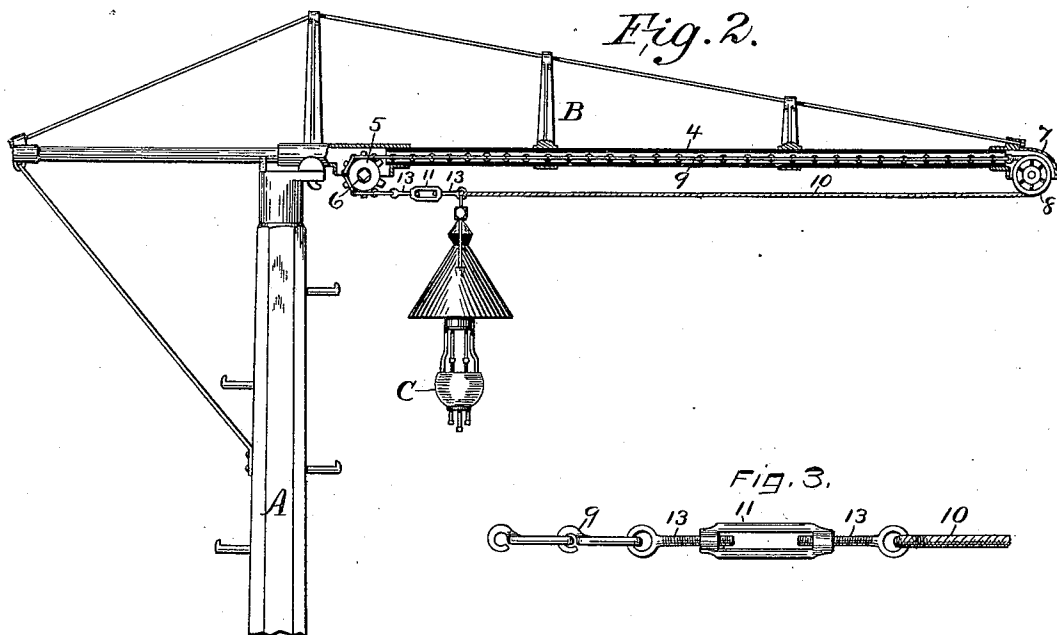


Fig. 2.

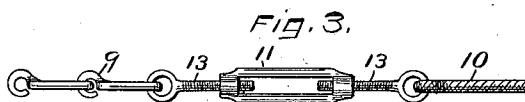


Fig. 3.

Witnesses,
John Edwards Jr.
W. H. Whiting.

Inventor,
Thomas H. Brady.
By James Shepard. Atty.

UNITED STATES PATENT OFFICE.

THOMAS H. BRADY, OF NEW BRITAIN, CONNECTICUT.

MEANS FOR SUSPENDING ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 463,773, dated November 24, 1891.

Application filed February 18, 1891. Serial No. 381,837. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. BRADY, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Means for Suspending Electric Lamps, of which the following is a specification.

My invention relates to improvements in means for suspending electric lamps; and the objects of my improvement are simplicity and cheapness of construction and efficiency and certainty in operation.

In the accompanying drawings, Figure 1 is a side elevation of my lamp-support. Fig. 2 is a partial sectional view of the same, with the lamp drawn in for trimming, and Fig. 3 is an enlarged view of the take-up for the combined chain and cable.

A designates the upper end of a pole for supporting the lamp; B, the cross-arm extending laterally therefrom, the lower member thereof being a tubular arm 4. At a point near the post this tubular arm is provided with a box and bearings for the sprocket-wheel 5 and its shaft 6, one end of which is fitted to receive a crank. (Not shown.) The outer end of the arm is provided with a pulley-housing 7 and pulley 8, the top of which pulley and sprocket-wheel are about level with the center of the tubular arm 4. A chain 9 and cable 10 are combined together to form an endless band that extends over said sprocket-wheel and pulley, the same being so placed thereon that the chain portion of the combined chain and cable is always on the sprocket-wheel, while the cable portion is always on the pulley. The lamp C is attached to the combined chain and cable at a point near their junction. I also place a take-up 11 at said junction, the same consisting of a buckle or loop bored and threaded with right and left hand threads at its respective ends, into which the screws 13 13 are screwed, one of said screws being attached to the chain 9 and the other to the cable 10. If at any time the combined chain and cable are slack, they may be tightened within certain limits by turning the buckle or loop, or further tightened by removing a link or links from the chain.

I have shown an ordinary form of open-link

chain, into which the teeth of the sprocket-wheel may enter and lock to prevent the chain from slipping thereon; but any other known form of wheel and chain having like relations for locking, so that turning the wheel will certainly carry the chain with it, may be employed.

The lamp is shown in Fig. 1 as at the end of the cross-arm where it will be in use. For trimming, or to get access to the lamp for any purpose, the operator climbs the pole, puts a crank on the shaft of the sprocket-wheel, and turning the same draws the lamp from the position shown in Fig. 1 to that shown in Fig. 2. The lamp is returned by turning the crank in the reverse direction. Thus a movement of the cable and lamp is always insured when the sprocket-wheel is turned which would not be the case if a simple cable were employed, while at the same time the pulley and cable make the lamp run smoothly.

While I prefer to employ the tubular arm 4 and to run the combined chain and cable within the same, it is evident that they might be run immediately under said arm or a solid arm without departing from the spirit of my invention. In some instances the cross-arm might extend from a building or other support instead of a pole.

I claim as my invention—

1. The herein-described lamp-support, consisting of a cross-arm having near one end a crank-shaft and wheel and at the other end a pulley, and the lamp carrying combined chain and cable in the form of an endless band extending over said wheel and pulley, the chain and wheel locking into each other against a slipping motion, substantially as described, and for the purpose specified.

2. In a support for electric lamps, the cross-arm having sprocket-wheel and shaft near one end, the pulley at the outer end thereof, the lamp carrying combined chain and cable, extending over said wheel and pulley, and the take-up at the junction of the chain and cable sections, substantially as described, and for the purpose specified.

THOMAS H. BRADY.

Witnesses:

JAMES SHEPARD,
JOHN EDWARDS, Jr.