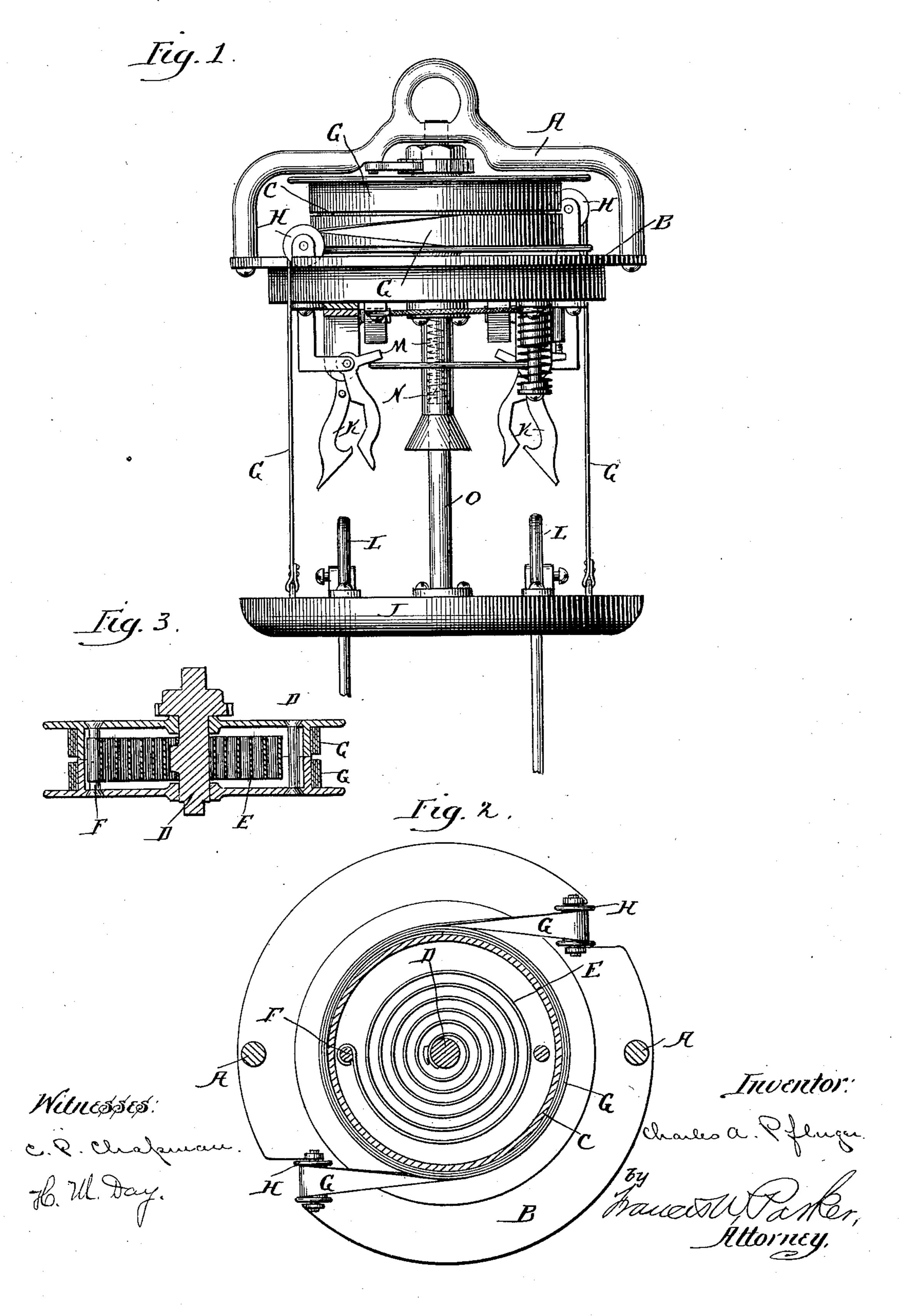
(No Model.)

C. A. PFLUGER.

ARC LIGHT HANGER FOR INSIDE USE.

No. 468,413.

Patented Feb. 9, 1892.



United States Patent Office.

CHARLES A. PFLUGER, OF CHICAGO, ILLINOIS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE STANDARD ELECTRIC COMPANY, OF ILLINOIS.

ARC-LIGHT HANGER FOR INSIDE USE.

SPECIFICATION forming part of Letters Patent No. 468,413, dated February 9, 1892.

Application filed May 15, 1891. Serial No. 392,821. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. PFLUGER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Arc-Light Hangers for Inside Use, of which the following is a full, clear, and exact specification.

My invention relates to hangers for arc lamps for interior use, and has for its object to provide convenient means and especially means whereby the lamp may be conveniently raised and lowered and yet not be of too great

a length.

It is illustrated in the accompanying draw-

ings, wherein—

Figure 1 is a side view of the device with the lamp partly drawn down. Fig. 2 is a horizontal section showing the drum and tapes. Fig. 3 is a detail cross-section.

Like parts are indicated by the same letters

in all the figures.

A is the suspending hook or bail by which the lamp is supported, and it is secured to the plate B. Above this plate is the drum C, pivoted to the central vertical pin D. Within the drum is the spring-motor E, secured at one end to the pin D and at the other end to the pin F on the drum C. The spring theresore tends to move the drum in one direction until the spring is coiled about into its normal condition.

G G are tapes, bands, or cords secured each at one end to the drum and wound thereabout in the same direction, and passing each over one pulley H and secured at their other extremities at the top J of the lamp proper.

K K are circuit making and breaking hooks adapted to engage the staples L L on the top of the lamp and support the lamp when it is elevated and also to place it in circuit.

M is a spring within the sleeve N, adapted to be engaged by the upper extremity of the rod O, which is secured to the top J.

This device could be changed and varied considerably without departing from the spirit of my invention.

The use and operation of my invention are as follows: The lamp is raised from the position in which it is shown in Fig. 1 until the staples L engage the hooks K, when, if the

lamp is released, the spring M bears against the head N and forces the same downwardly, and will thus hold the lamp securely in position, so as to be supported by the hooks K. 55 The weight of the lamp upon the hooks carries them down in the usual manner, so as to break the main circuit and lead the main-circuit current through the lamp and thus establish the arc. The lamp, when released 60 from these hooks and permitted to descend, is supported by the action of the spring E, which tends to unwind under the weight of the descending lamp, or which recoils itself and takes up the supporting-tapes G G when 65 the lamp is raised.

The spring M is not of sufficient strength to support the lamp alone; but the action of such spring in drawing the lamp upwardly, together with the action of the springs which 70 are associated with the hooks proper, is sufficient to overcome the weight of the lamp,

hence the necessity of the spring M.

I claim—

1. In an arc-light hanger for interior use, 75 the combination of a supporting part with dependent circuit-closing hook attachments, an arc lamp provided with terminals adapted to engage such hooks, a horizontal drum with an interior motor or spring to wind the same in 80 one direction, and suspending tapes or bands passing around the drum in the same direction and over the pulleys to the lamp proper.

2. In a hanger for arc lamps for interior use, the combination of a support with a lamp, 85 hooks on such support to sustain the lamp, and oppositely-acting springs which tend one to raise the lamp and the other to force it downwardly and hold it in the hooks.

3. In a hanger for arc lamps for interior use, 90 the combination of a support with a lamp, hooks on such support to sustain the lamp, and oppositely-acting springs which tend one to raise the lamp and the other to force it downwardly and hold it in the hooks, said 95 springs being disposed so that as the lamp moves vertically one increases in tension while the other diminishes.

CHARLES A. PFLUGER.

Witnesses:

CELESTE P. CHAPMAN, H. M. DAY.