

(No Model.)

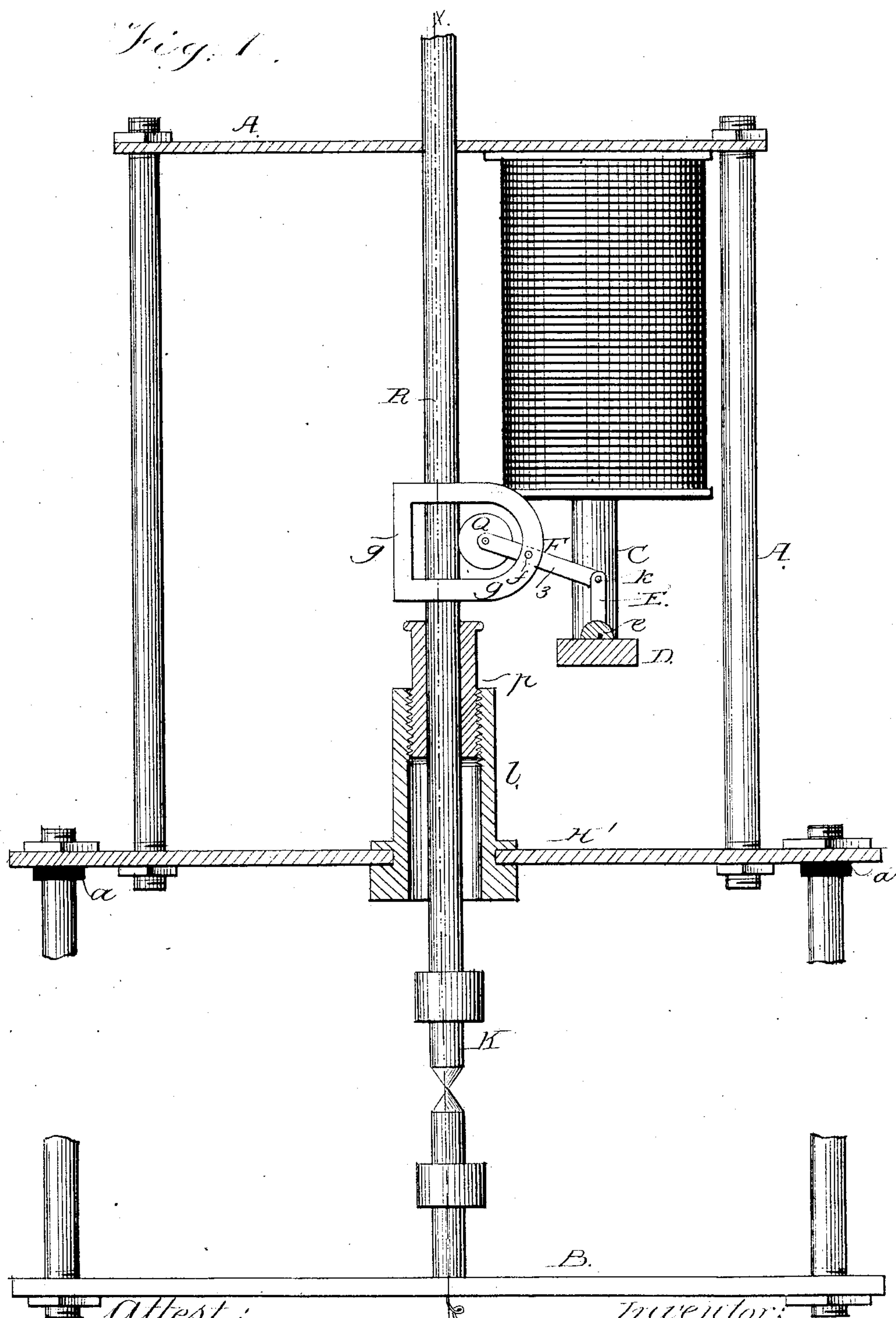
2 Sheets—Sheet 1.

C. D. JENNEY.

ELECTRIC LAMP.

No. 255,999.

Patented Apr. 4, 1882.



Attest:
Walter Fowler,
R. K. Evans

Inventor;
Chas D. Jenney,
by A. N. Crown & Co.
Attorneys

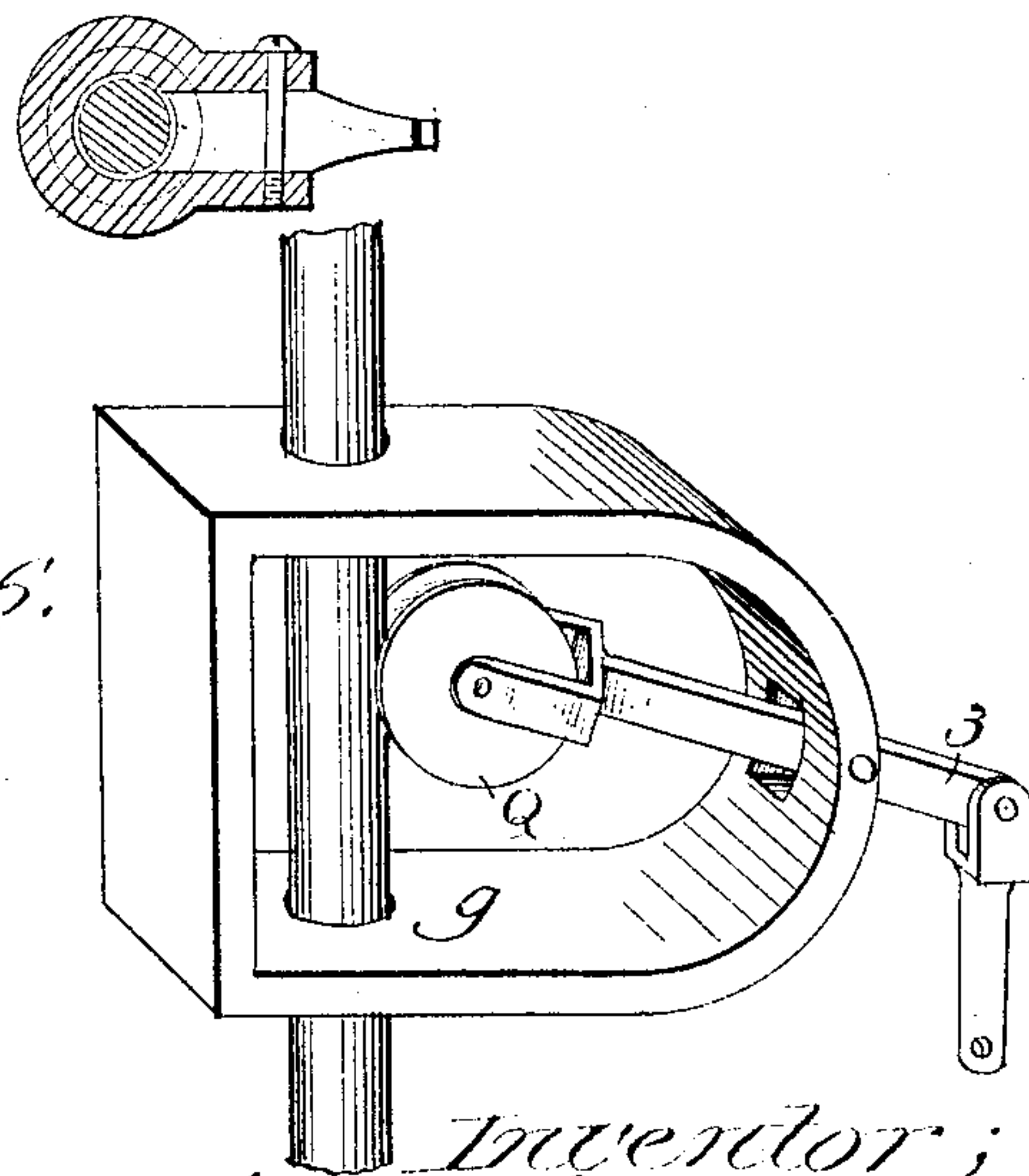
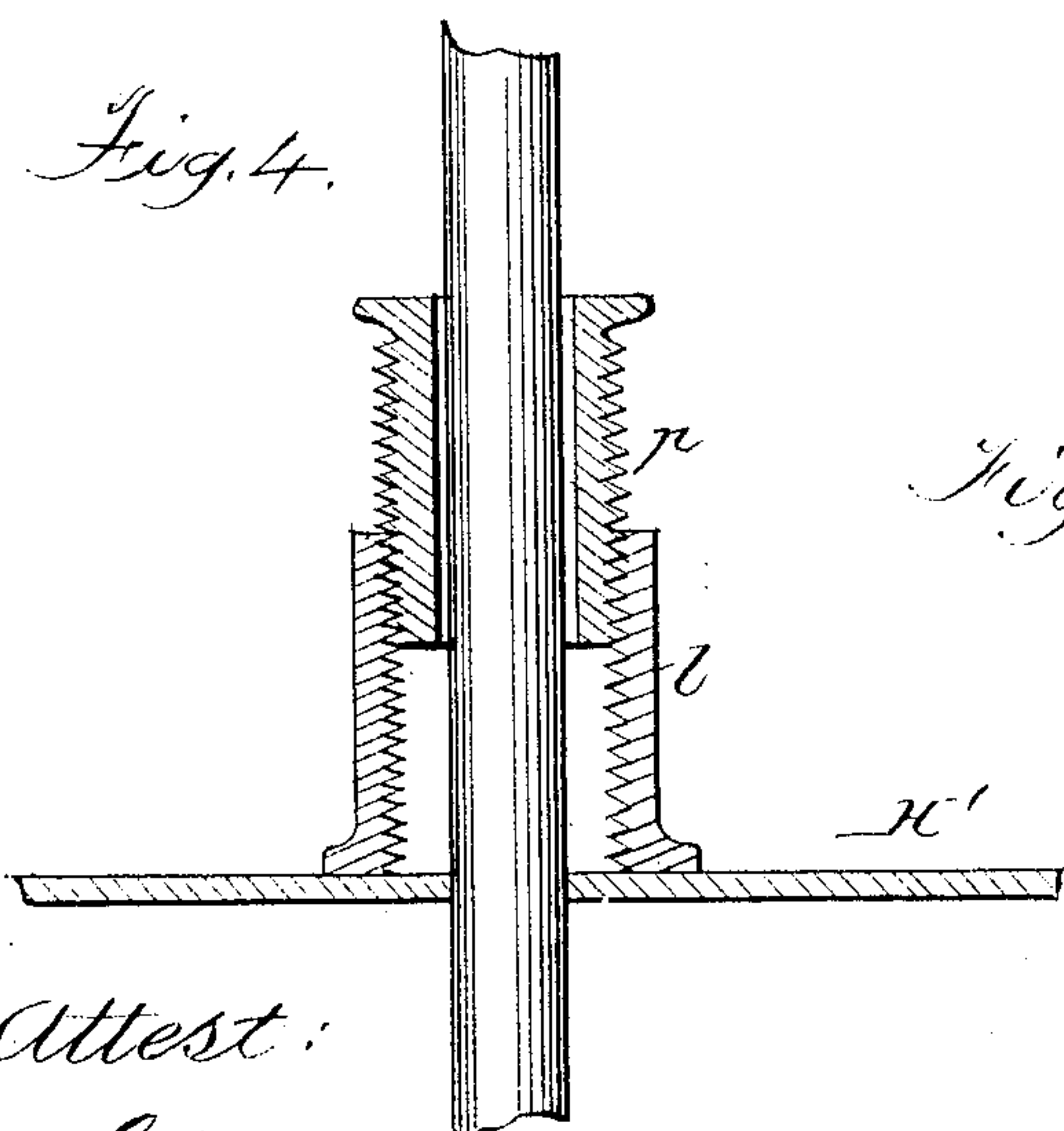
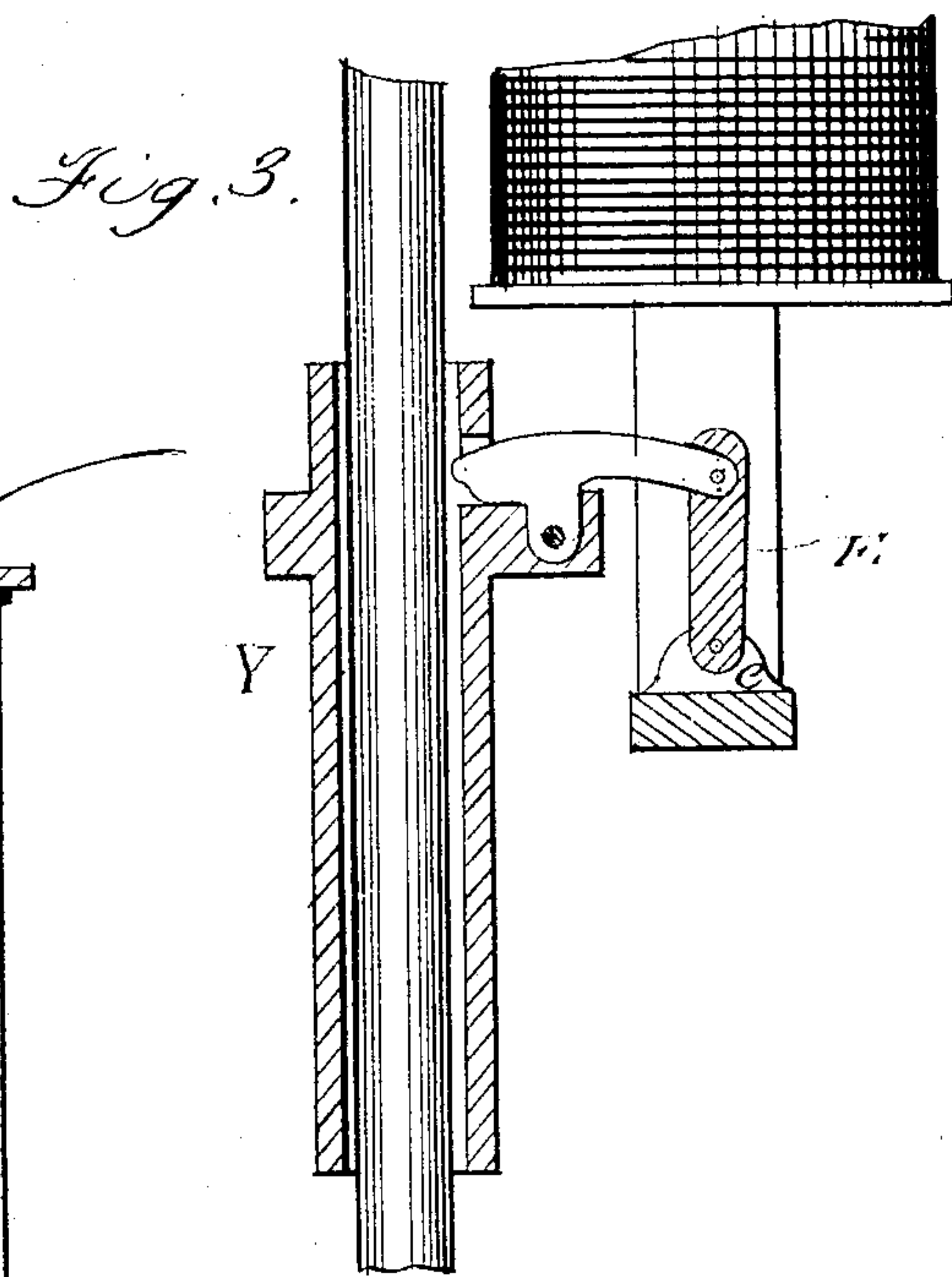
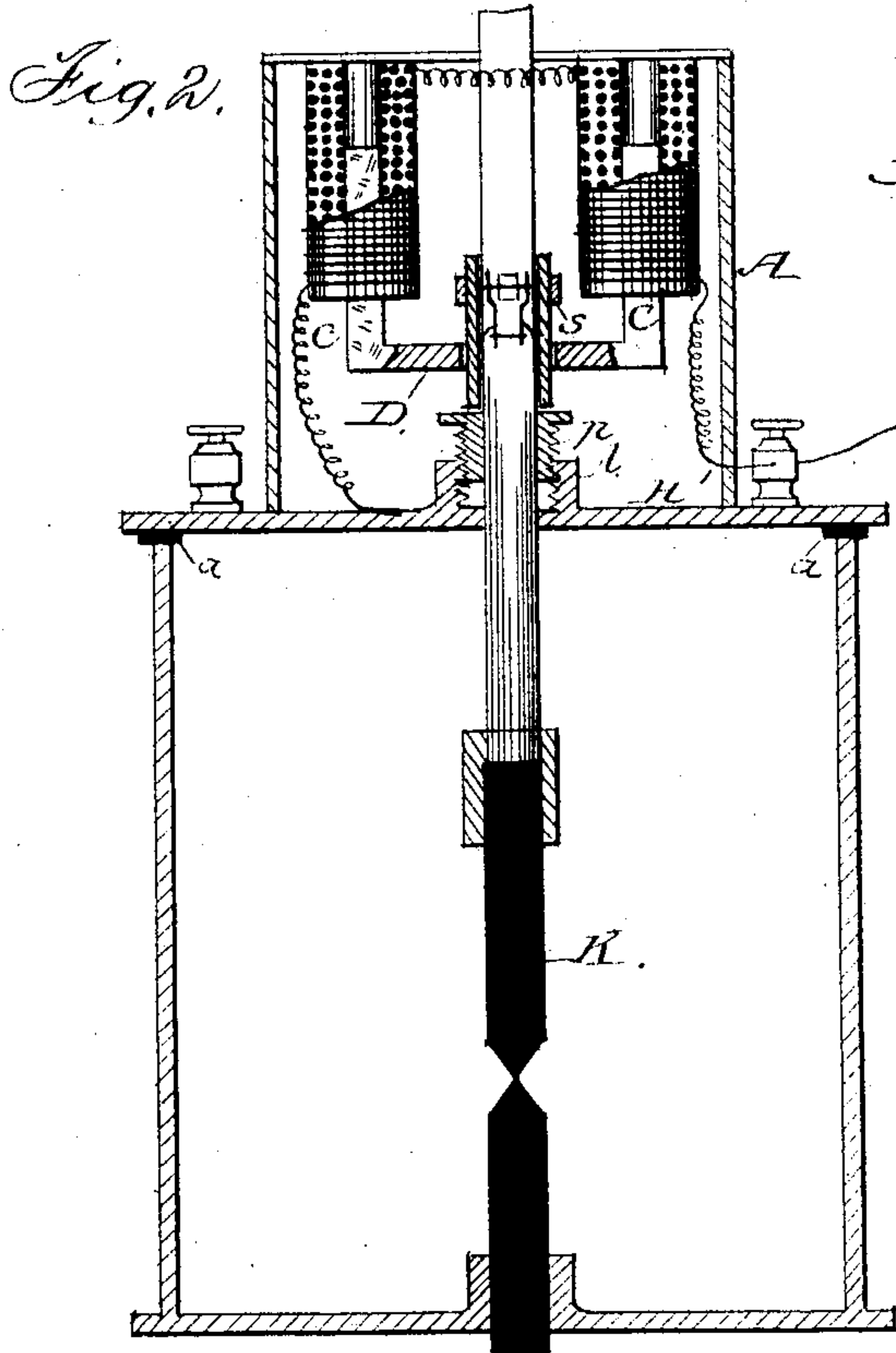
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his Attorneys

UNITED STATES PATENT OFFICE.

CHARLES D. JENNEY, OF SOUTH BEND, ASSIGNOR TO THE FORT WAYNE
ELECTRIC LIGHT COMPANY, OF FORT WAYNE, INDIANA.

ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 255,999, dated April 4, 1882.

Application filed August 30, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES D. JENNEY, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain Improvements in Electric Lamps; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical sectional view, showing the general construction of the lamp. Fig. 2 is a vertical sectional view on the line xx of Fig. 1. Figs. 3, 4, and 5 are details to be referred to.

My invention relates to electric lamps wherein carbon points are used, and has for its object to provide an automatic feed of one of the carbon candles to the burning point, which will be exceedingly sensitive and regular and in a great measure avoid the irregular light due to the irregular feed of the carbon points.

My invention consists in a certain construction and combination of devices, whereby the purpose of my invention is attained, as is hereinafter fully described and specifically claimed.

In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A is the upper frame of the lamp, and B the lower frame, they being insulated one from the other by means of insulators $a a$. In the upper frame are fixed two helices, the coils of which are in the main circuit.

Within the helices are two soft-iron bars, C C, made integral with an armature, D, in the center of which are two ears, $e e$, to which is pivoted a toggle-link, E, which extends upward toward the helices and engages, by means of a pivot, k , with the arm 3 of a cam-clutch, F, having a pivotal bearing, f , in a yoke, g , surrounding the rod R and provided with a roller-bearing clamp, Q, which binds against said rod R, and thereby sustains the movable carbon point K and prevents it from slipping downward.

On the cross-piece H' of the lamp is a threaded nut, l , to receive a threaded collar, p , against which yoke g impinges at its lowest point of fall. By means of the screw-threads the collar p can be raised or lowered to adjust the point of contact with the sleeve.

In the modification shown in Fig. 3 the cam-clutch is provided with a sharpened point, as a medium of contact with the rod supporting the carbon point, and a perforated sleeve, Y, in lieu of yoke g , affords a bearing medium both for the cam-clutch and the rod holding the carbon point.

The operation of the lamp is as follows: When carbon points become separated by burning away or otherwise the current and magnetism become so reduced in intensity that the magnetism of the helices will not support the cores C C, which are caused to descend by the action of gravity, carrying the cam-clutch and rod R with them until yoke g impinges against the fixed trip p , which practically lifts the clutch from its bearing against the rod, which is thus allowed to slide downward until the approach of the carbon points intensifies the current, thus causing the magnetism of the helices to lift the cores and operate the clutch so as to seize the rod. It will be seen that it is the trip p which loosens the clutch, or rather the toggle-link E cannot pull down the cam-roller clutch until the yoke g rests upon the trip.

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

In an electric lamp, the helices, the bars C C, and fixed armature D, in combination with the candle-supporting rod R, surrounding yoke g , cam-clutch F, provided with roller Q, and adjusting thimble or collar p , moving in nut l , all constructed, arranged, and operated as set forth.

CHARLES D. JENNEY.

Witnesses:

JAS. A. JENNEY,
JAMES DU SHANE.