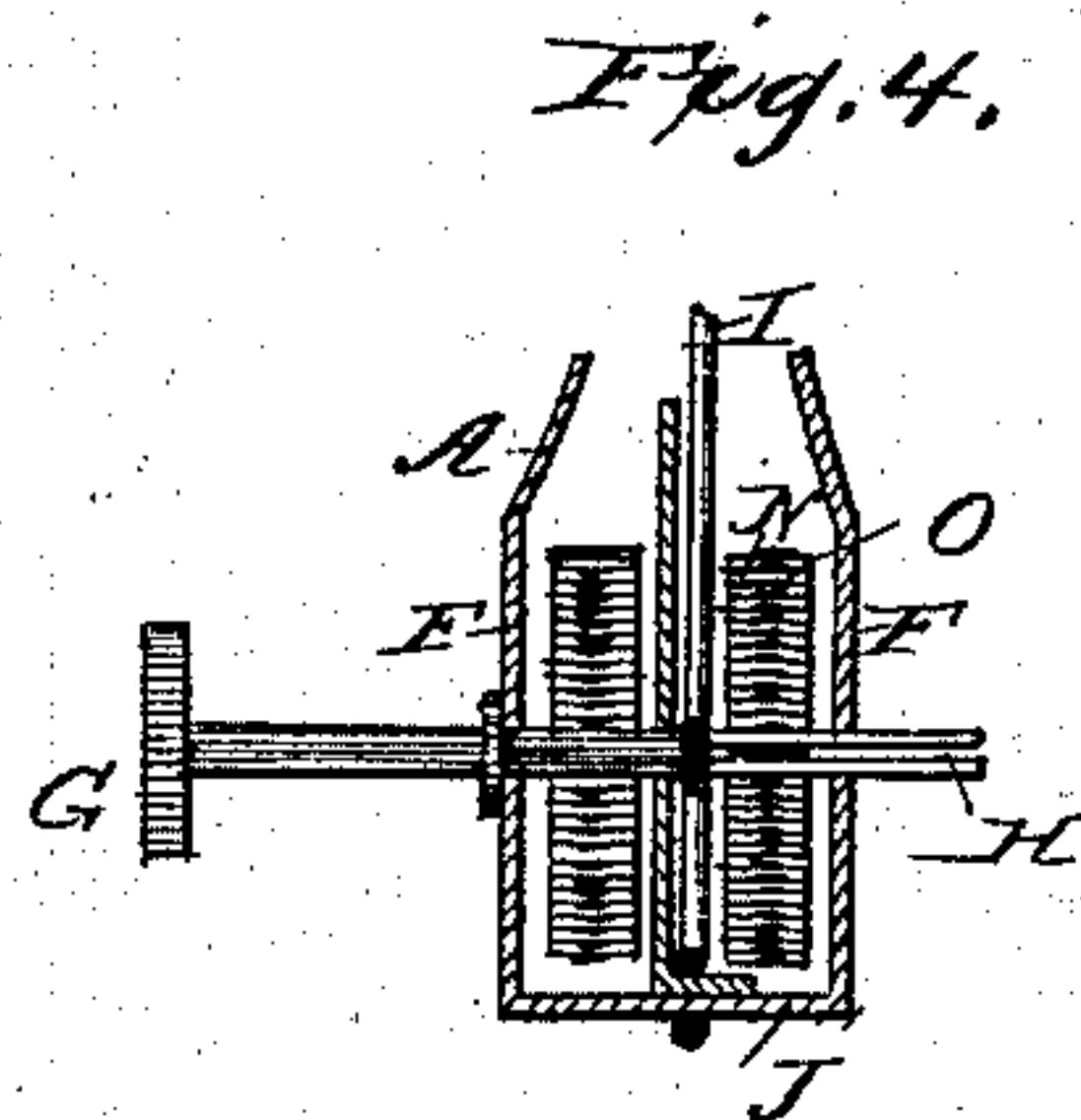
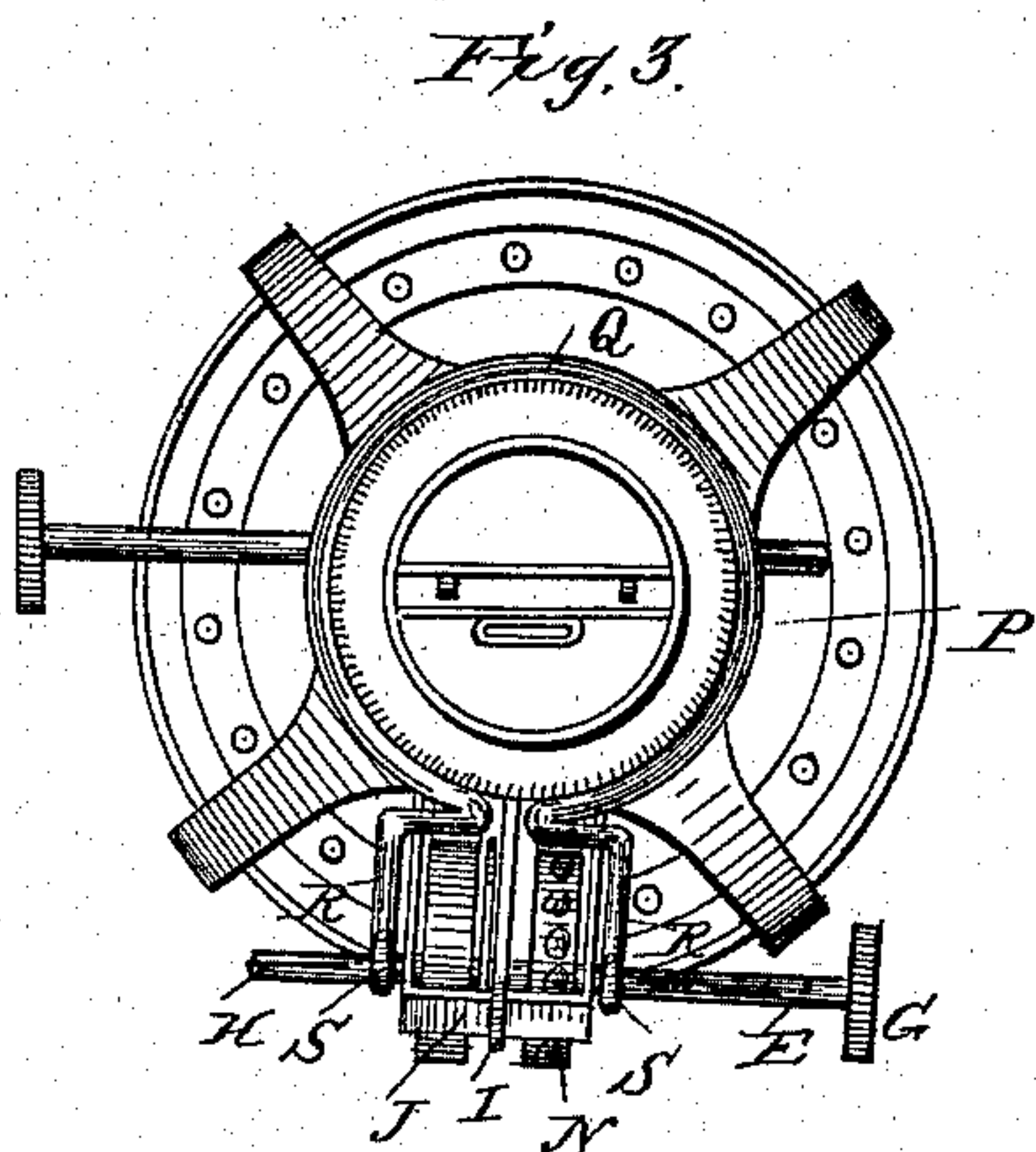
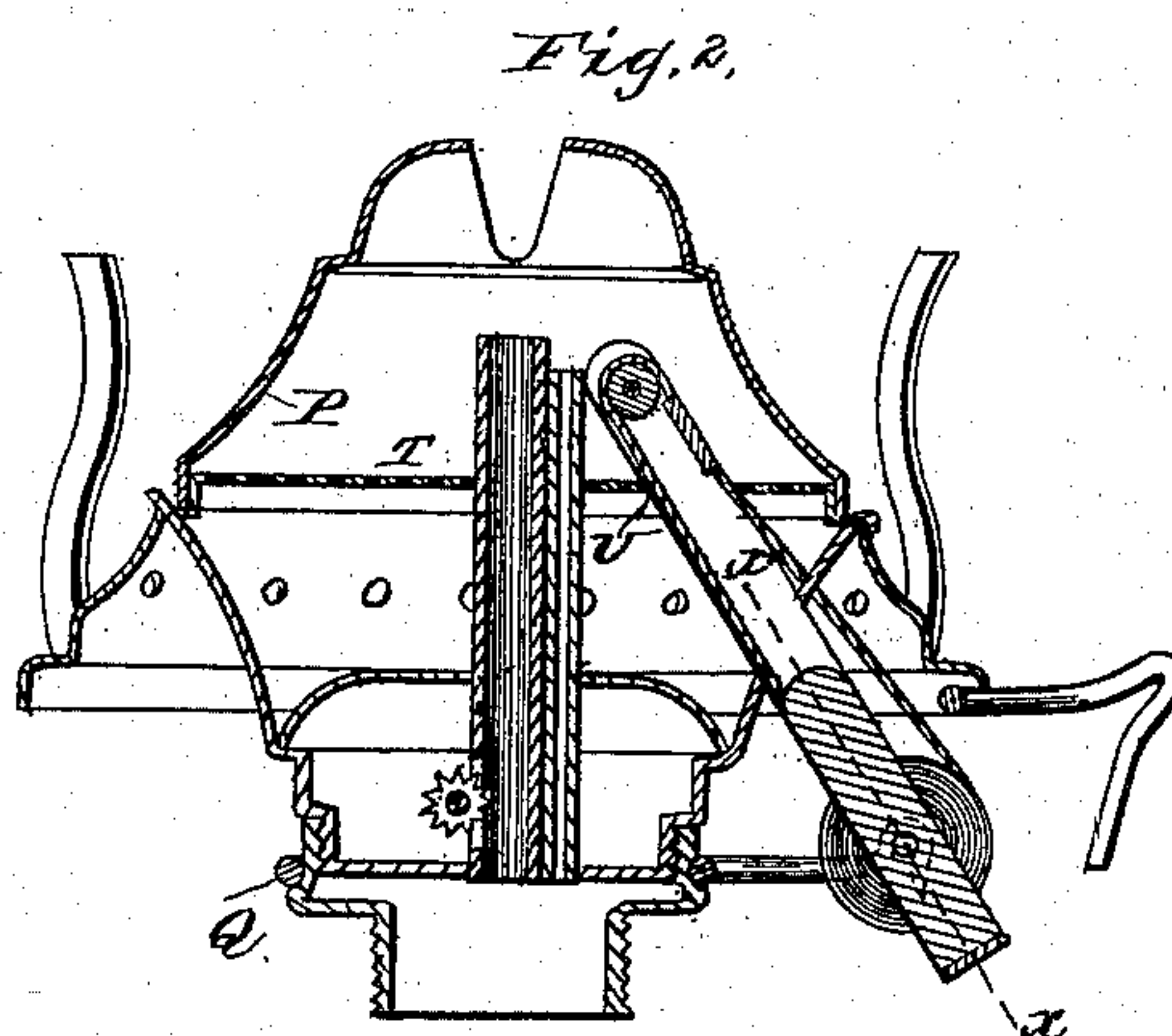
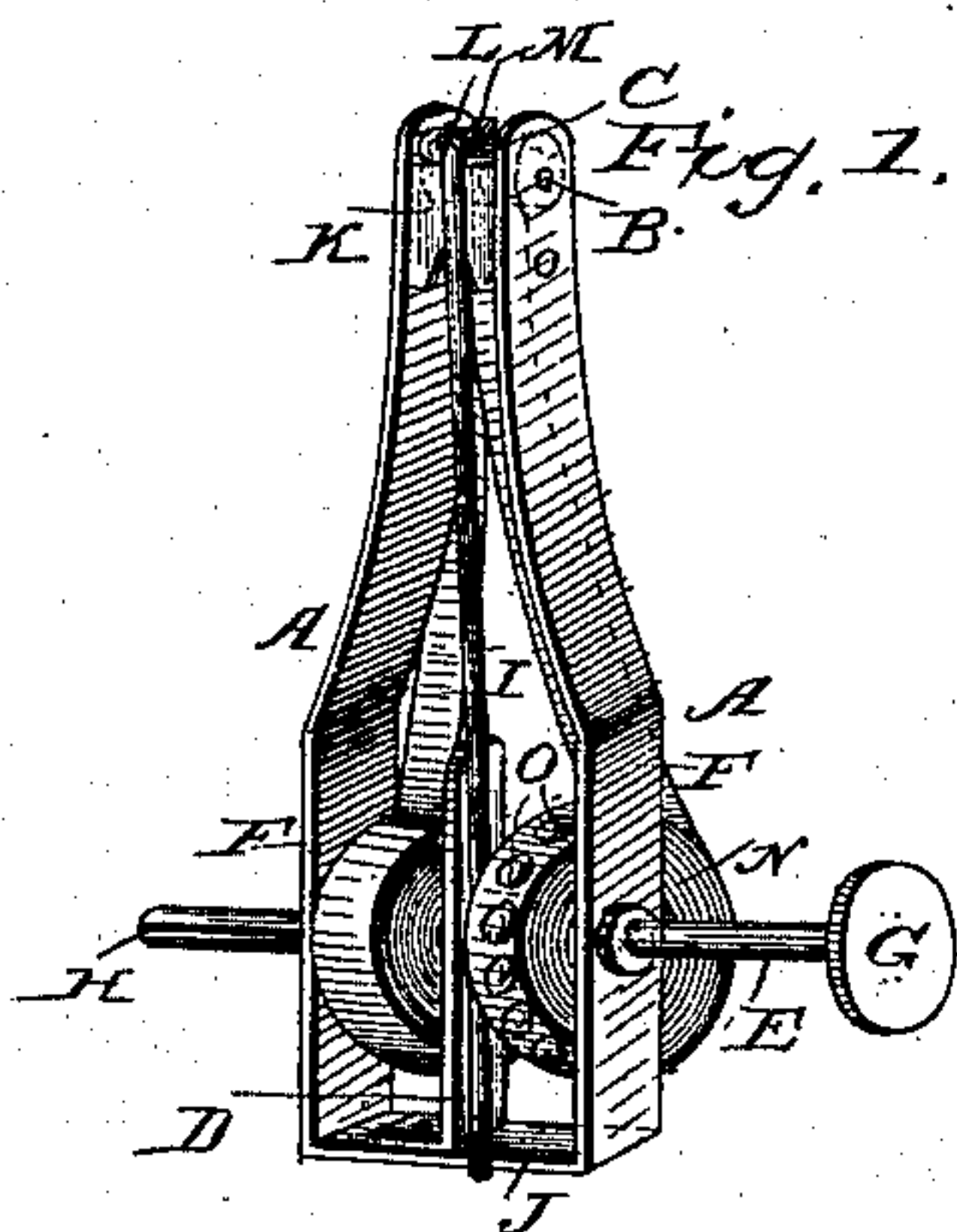


(No Model.)

T. C. PRINCE.
IGNITING MECHANISM.

No. 261,873.

Patented Aug. 1, 1882.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THEODORE C. PRINCE, OF SOUTH NORWALK, CONNECTICUT, ASSIGNOR OF ONE-HALF TO JAMES P. PUNZELT, OF SAME PLACE.

IGNITING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 261,873, dated August 1, 1882.

Application filed June 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, THEODORE C. PRINCE, of South Norwalk, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Igniting Mechanism; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view of the igniter detached. Fig. 2 is a vertical sectional view, showing it attached to a lamp-burner. Fig. 3 is a bottom plan view of the same; and Fig. 4 is a section on the line *xx*, Fig. 2.

Corresponding parts in the several figures are denoted by like letters of reference.

My invention relates to an improved igniting mechanism applicable to kerosene-lamp burners; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, A represents a suitable frame formed by bending a single strip of sheet metal, and connecting the ends of the same at the upper end of the frame by a shaft or rivet, B, upon which is journaled a roller, C.

D is a partition secured to the lower cross-piece of the frame, and separating the sides of the same at the lower end.

E is a shaft journaled in the side pieces, F F, and in the partition D of the frame, and having a handle, G, by which it may be turned. This shaft is so arranged that it may be readily withdrawn from the frame, and it is provided at the end with a slot, H.

I is a wire spring secured to the lower cross-piece, J, of the frame A, coiled around the shaft E, in order to give it sufficient tension, and extending to the top of the frame, where a rest, K, is provided to support it. The upper end of spring I is twisted or coiled, as at L, and terminates in a point, M, which may be called the "igniting-point."

N is a roll of igniting-tape, or tape provided with pellets O of ignitable material. Said roll

is adjusted upon shaft E on one side of the partition D. One end of the roll is then passed up over the roller C, back again, and secured in the slot H of shaft E on the other side of partition D.

It will be seen that by turning the shaft E the tape is wound upon the same, being drawn over roller C and past the igniting-point from the roll N, which, being loose upon shaft E, is gradually unwound from the latter.

P is a lamp-burner, upon the neck of which is secured a collar, Q, formed of wire, and having projecting arms R R, provided with hooks S. This collar, it will be seen, may be readily adjusted upon any lamp-burner. The diaphragm T of the burner has an opening, U, adjacent to but independent of the wick-tube.

In operation the frame A of the device is inserted from below through the opening U in the diaphragm of the burner, and the shaft E is sprung into the hooks S, which hold the device in place. By turning the shaft E one of the igniting-pellets is drawn past the point L, which scratches and ignites it, thus instantly igniting the lamp-wick, which has been previously trimmed and turned to the proper height.

I claim and desire to secure by Letters Patent—

1. The combination of the frame A, having partition D and rest K, with the shaft E and the wire spring or igniter I, secured to the lower cross-piece of said frame, coiled around shaft E, and supported upon rest K, as set forth.

2. The combination of the frame A, having roller C and transverse shaft E, with a roll of igniting-tape placed loosely upon said shaft, the end of said roll being passed over roller C and back to shaft E, to which it is made fast, substantially as and for the purpose set forth.

3. In an igniting mechanism, the combination, substantially as described, of the frame, the transverse shaft holding the igniting-tape, and a spring-wire igniter secured to the bottom of the frame, and coiled around the transverse shaft in order to give it sufficient tension, as set forth.

4. The combination of a lamp-burner, the

diaphragm of which is provided with an opening, U, the collar Q, having arms R, provided with hooks S, and the igniting mechanism consisting of the frame A, having partition D,
5 shaft E, roller C, rest K, spring-igniter I, and the roll N of fulminate tape, all constructed and arranged substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

THEODORE C. PRINCE.

Witnesses:

JAMES P. PUNZELT,

GEORGE F. BEARSE.