

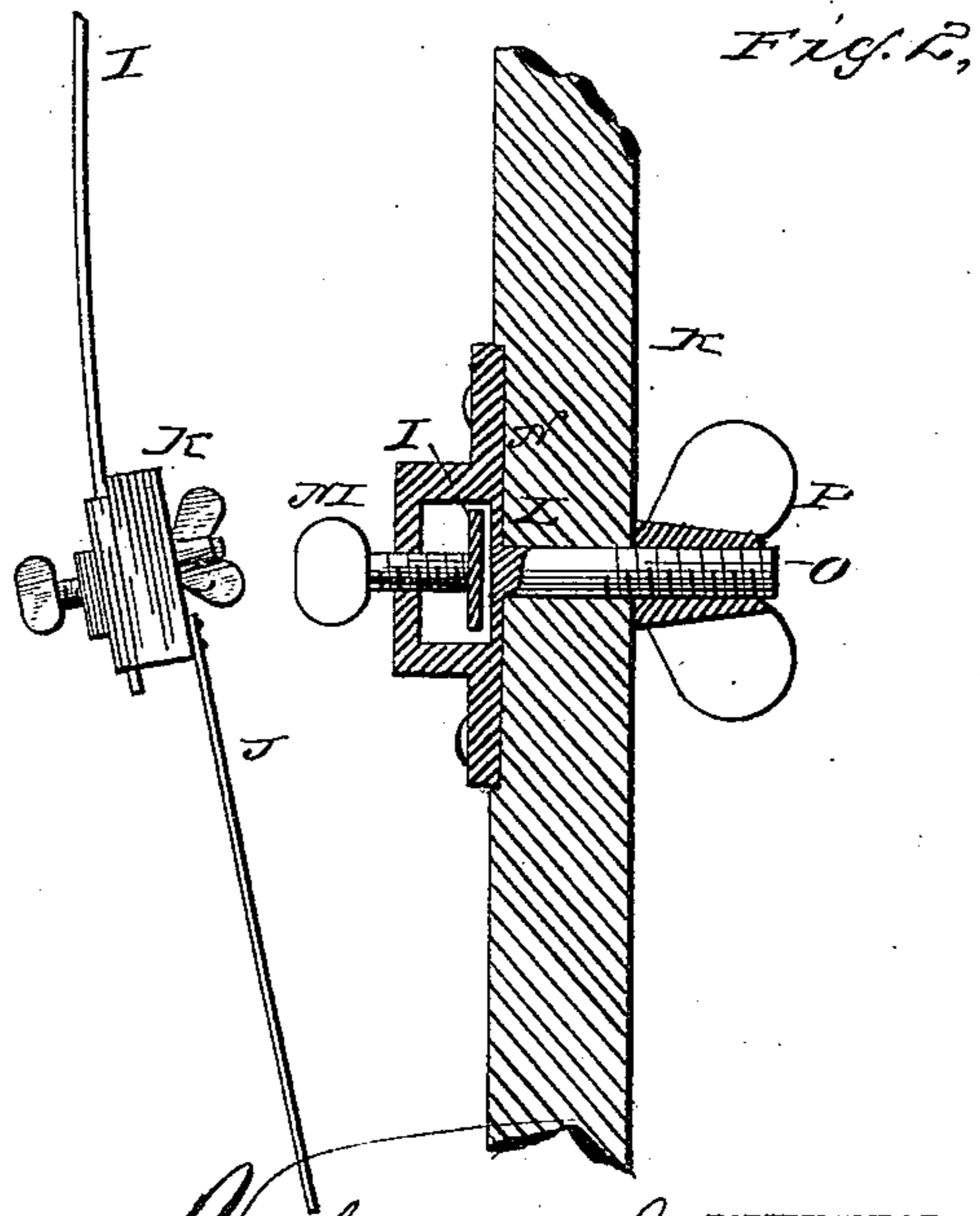
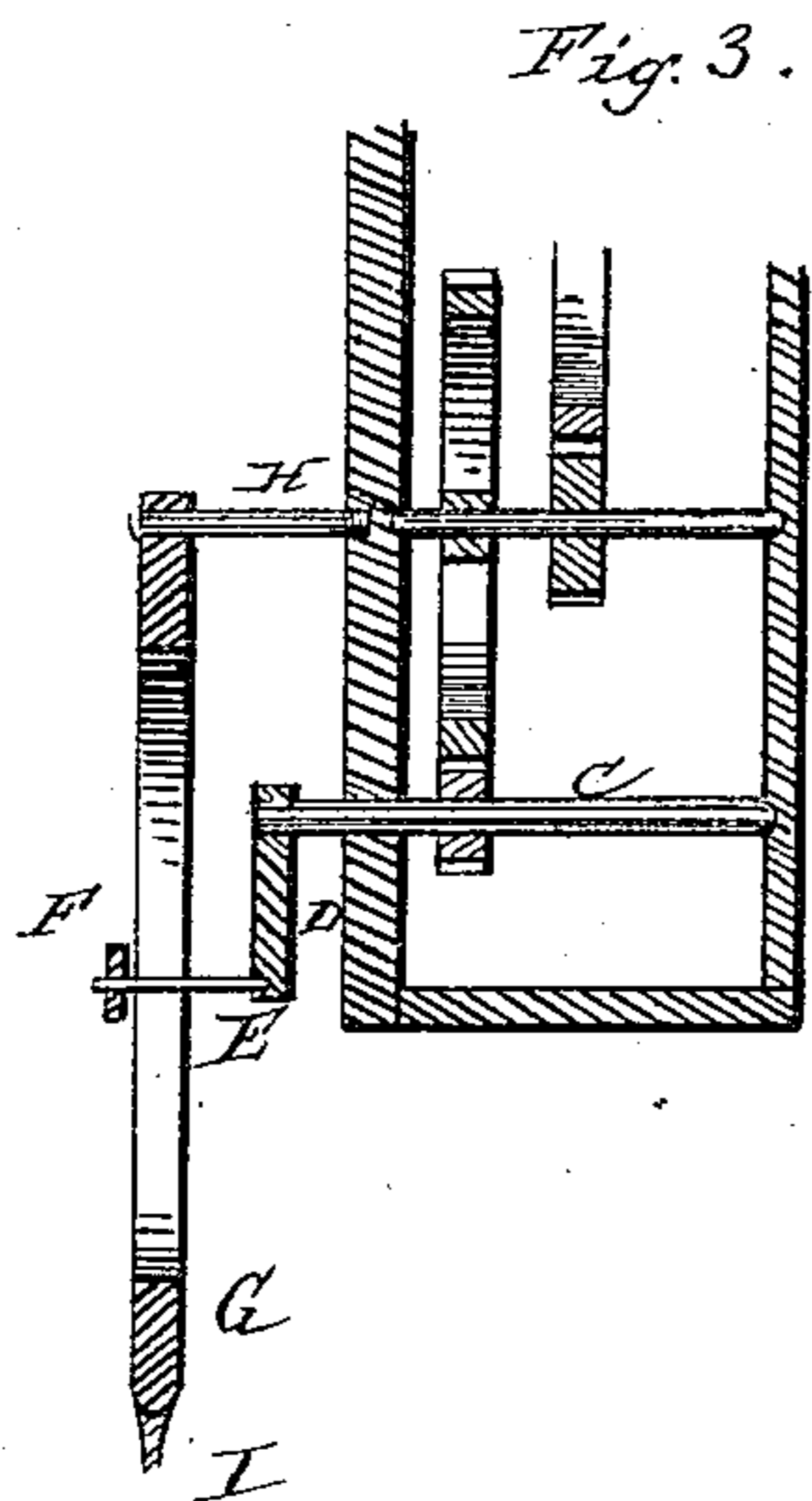
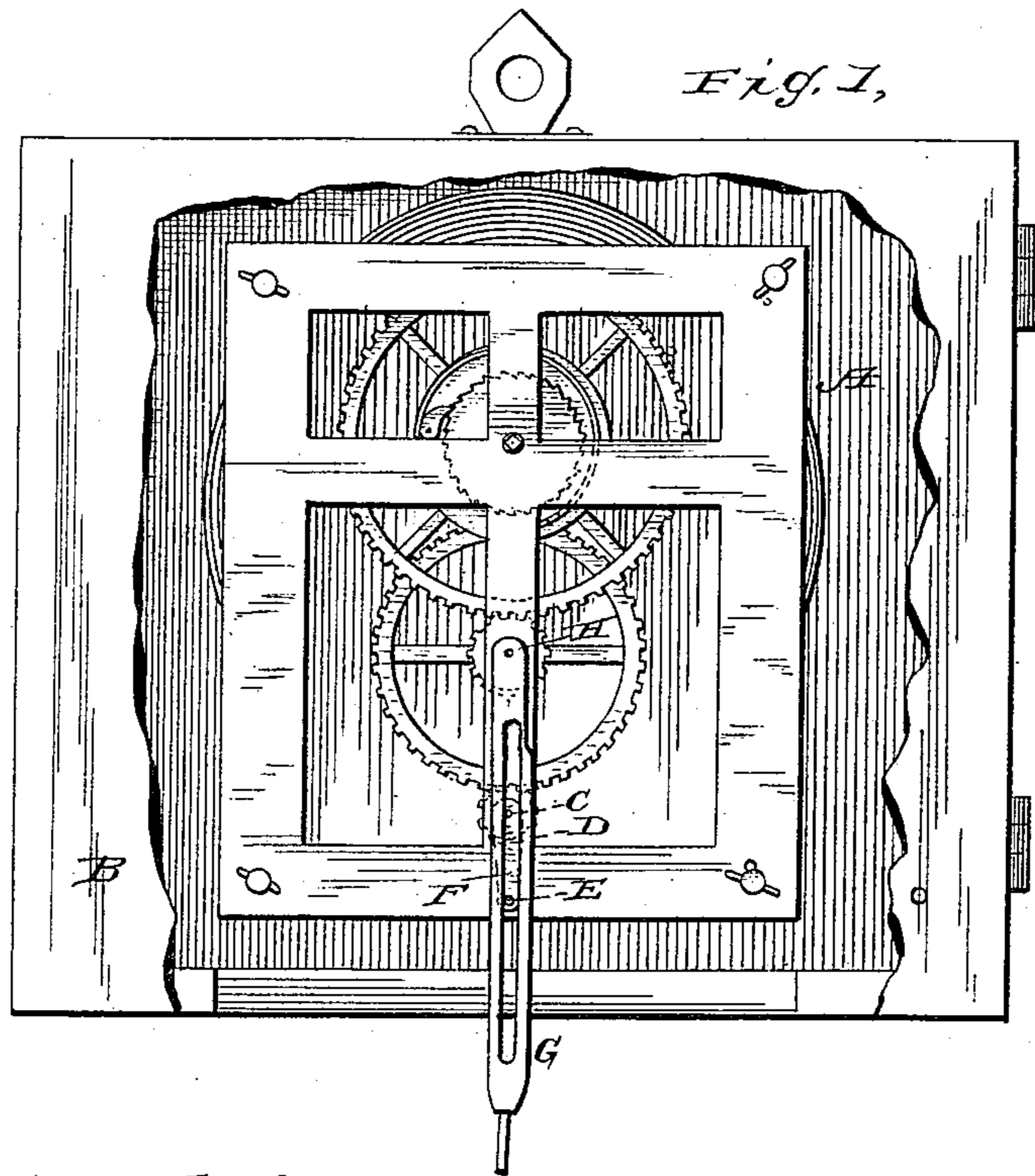
(No Model.)

V. STIREWALT.

FLY FAN.

No. 271,535.

Patented Jan. 30, 1883.



WITNESSES:

And. S. Dietrich
Charles H. Baker

INVENTOR.
Valentine Stirewalt
by *Louis Bagger & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

VALENTINE STIREWALT, OF DAVIDSON COLLEGE, NORTH CAROLINA.

FLY-FAN.

SPECIFICATION forming part of Letters Patent No. 271,535, dated January 30, 1883.

Application filed October 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, VALENTINE STIREWALT, of Davidson College, in the county of Mecklenburg and State of North Carolina, have invented certain new and useful Improvements in Fly and Mosquito Brushes; 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, and in which—

Figure 1 is a side view of my improved fly and mosquito brush with part of the casing broken away. Fig. 2 is a detail view, and Fig. 3 is a vertical sectional view of the lower part of the clock-work and upper part of the spring carrying the brush.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to fly and mosquito brushes or fans; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a clock-work, of any desired construction, inclosed in a suitable casing, B.

To the lower shaft, C, of the clock-work is fastened a crank, D, the pin E of which projects into and slides up and down in a slot, F, in an arm, G, which is pivoted upon a pin, H, fastened in the frame of the clock-work. As the crank is revolved by the clock-work, it will impart a swinging motion to the arm G, to the end of which is fastened a steel spring, I, the swinging motion of the arm and spring bringing the crank and pin over its dead-points when it is in its highest or lowest position. Upon this spring is adjustably secured a brush or fan, J, having a handle, K.

A clamp, L, provided with a set-screw, M,

clasps the spring, and may be fastened on any point of the spring by the set-screw. The ends of the clamp are fastened to a plate, N, provided with a pin, O, which passes through the brush-handle K, and may be held in place by a thumb-nut, P, on its outer screw-threaded end.

The brush or fan may be of any desired shape.

When it is desired to use the device the casing is placed upon a shelf or suspended above the person or object it is desired to fan or keep the insects away from. The clock-work is wound, and the spring, with its brush or fan, is started swinging on the pivot H. The crank-pin, traveling up and down in the slot of the arm G, will keep the arm, spring, and brush oscillating, and the spring will sweep in a longer arc than if the pendulum were a stiff rod, thus creating a gentle current of air.

By turning the handle K on the pin O and by sliding the clamp L up or down on the spring the position of the brush or fan may be adjusted as desired.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination of the clock-work A, having oscillating arm G, with the spring I, provided with the brush or fan J, having the handle K, clamp L, provided with the thumb-screw M, and plate N, having pin O and thumb-nut P, substantially as and for the purpose set forth and described.

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

VALENTINE STIREWALT.

Witnesses:

HAMILTON C. JONES,
R. P. WARING.